LOWNEYASSOCIATES
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Mountain View
Oakland
San Ramon
Fullerton

May 22, 2002
1424-9B

Mr. Steve Kalmbach
PULTE HOME CORPORATION
7031 Koll Center Parkway, Suite 150
Pleasanton, Califoria 94566

RE: SOIL AND GROUND WATER QUALITY EVALUATION
1300 AND 1350 POWELL STREET
EMERYVILLE, CALIFORNIA

Dear Mr. Kalmbach:

The attached report summarizes the results of our soil and ground water quality evaluation performed at 1300 and 1350 Powell Street, located in Emeryville, California. This report was prepared in accordance with our agreement dated February 25, 2002.

We refer you to the text of the report for details regarding this study. Thank you for choosing us to assist you. If you have any questions, please call and we will be glad to discuss them with you.

Very truly yours,

LOWNEY ASSOCIATES

Mark J. Amiola, R.G., R.E.A.
Project Geologist

Peter M. Langtry, R.G., C.E.G.
Principal Environmental Geologist

RLH:PML:MJA:jcm

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Attn: Mr. Bob Schultz (1)
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LOWNEY ASSOCIATES
Environmental/ Geotechnical/ Engineering Services

Soil and Ground Water Quality Evaluation

1300 and 1350 Powell Street

Emeryville, California

MAY 2002

CO. 1475
CO. 1477

This report has been prepared for:

Pulte Home Corporation

7031 Koll Center Parkway, Suite 150, Pleasanton, Califoria 94566

May 22, 2002

Project No. 1424-9B

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TABLE OF CONTENTS

SOIL AND GROUND WATER QUALITY EVALUATION

1300 AND 1350 POWELL STREET

EMERYVILLE, CALIFORNIA

1.0 INTRODUCTION

1.1 Purpose

In this report, we present the results of the soil and ground water quality evaluation performed at 1300 and 1350 Powell Street in Emeryville, California (Figures 1 and 2). This work was performed for Pulte Home Corporation to evaluate on-site soil and ground water quality. We understand Pulte is considering purchasing the property for redevelopment with high-density residences.

1.2 Site Background

The approximately 1.9-acre site is located at 1300 and 1350 Powell Street in Emeryville, California, and is occupied by a vacant commercial building at 1300 Powell Street and a commercial building and a maintenance/storage building at 1350 Powell Street. The site is located in a commercial area and is bounded by commercial/light industrial areas to the north, Doyle Street to the east, Powell Street to the south, and Hollis Street to the west.

The site's first reported use appeared in 1911 as a stable with related buildings on the 1300 Powell Street property. Site information prior to 1911 was unavailable from sources researched, but based on our experience, site use prior to 1911 was likely undeveloped land. By the 1930s, the site was developed with bulk oil storage facilities, including up to 21 above ground storage tanks (ASTs) at 1300 Powell Street and four ASTs at 1350 Powell Street. The Pennzoil Company was located at 1300 Powell Street. A.M. Castle & Company and Cooks Oil Company were located at 1350 Powell Street by 1935 and 1941, respectively. An automobile repair facility (garage) was reported at 1350 Powell Street by 1951. The buildings at 1300 Powell Street were demolished by 1967. By 1983, the current on-site building at 1300 Powell Street had been built and was in use by Construction Services. Five 500-gallon USTs were reportedly removed from 1350 Powell Street in 1987.

1.2.1 Previous Environmental Reports – 1300 Powell Street

Sample locations and hydrocarbon concentrations detected in soil and ground water during previous investigations are presented in Figures 3, 4, and 5. The previous soil and ground water investigations performed at the 1300 Powell Street property are briefly summarized below:

Lush Geosciences, 1995

In 1995, eight borings were drilled to evaluate potential petroleum hydrocarbon contamination of soil at selected locations at the site including aboveground fuel and oil storage areas. The site was being considered for lease to another party, and a baseline survey was requested to evaluate site conditions prior to transfer of responsibility of site operations to the lessee. The borings were drilled to depths of approximately 5 feet for the collection of soil samples. The areas investigated primarily were located on the northern portion of the property in unpaved areas, areas of worn or damaged pavement, and areas where water accumulated during rainy periods. Shallow ground water was encountered in two of the borings at depths of 1 to 2 feet below grade. Total petroleum hydrocarbons as diesel (TPHd) were detected in 9 of 15 soil samples at concentrations ranging from 2.7 to 110 parts per million (ppm), but none of the samples exceeded the California Regional Water Quality Control Board's (CRWQCB) risk-based screening level (RBSL) for TPHd (500 ppm). Total petroleum hydrocarbons as motor oil (TPHmo) were detected in 7 of 15 samples at concentrations ranging from 15 to 880 ppm, but only one sample exceeded the RBSL for TPHmo (500 ppm). Total oil and grease (TOG) was detected in all 15 soil samples at concentrations ranging from 200 to 3,200.

Cambria Environmental Technology, Inc., 1997

In 1997, twelve borings were drilled to depths of 5 to 12 feet for collection of soil and ground water samples. The work was performed in response to a request by the Alameda County Department of Environmental health (ACDEH) to delineate the extent of soil and ground water contamination at the site. Ground water was encountered in five of the borings at depths of approximately 1 to 7 feet. Total petroleum hydrocarbons as gasoline (TPHg) were detected in one of two soil samples analyzed at a concentration (840 ppm) exceeding the RBSL (400 ppm) for TPHg. TPHd was detected in 9 of 12 soil samples at concentrations ranging from 1.2 to 210 ppm; TPHmo was detected in 5 of 12 soil samples at concentrations ranging from 11 to 450 ppm; and 50 to 380 ppm TOG were detected in 8 of 12 soil samples analyzed, but all the samples were below RBSLs. One soil sample located near the northwest corner of the existing building also was analyzed for volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PAHs). No VOCs were detected other than 0.011 ppm acetone, and no PAHs were detected. In addition, 2,000 to 17,900 parts per billion (ppb) TPHd were detected in four ground water samples analyzed; 3,300 to 24,000 ppb of TPHmo were detected in three ground water samples analyzed; and 6,300 ppb TOG was detected in one of two ground water samples analyzed. Four ground water samples exceeded the TPHd RBSL (640 ppb) and three ground water samples exceeded the TPHmo RBSL (640 ppb). Based on the analytical results, the site was recommended for regulatory case closure (for commercial use).

ACDEH, 1999

The 1300 Powell Street property was listed as a site with soil and ground water petroleum hydrocarbon (diesel and motor oil range hydrocarbons) contamination by the Alameda County Department of Environmental Health (ACDEH). The ACDEH issued a no further action letter dated November 29, 1999, for the petroleum hydrocarbon contamination found in soil and ground water at the site. No further action was required for the site provided no change in the existing land use (commercial/light industrial) was planned.

PES Environmental, 2000

On September 7, 2000, six borings were drilled to depths of up to 7 feet for collection of soil and ground water samples. The work was performed by PES environmental to evaluate potential redevelopment alternatives for a potential purchaser of the property. One sample of fill soil and one sample of native soil were collected from each boring. TPHg was detected in only three of 12 samples at concentrations ranging from 1.3 to 56 ppm. TPHd was detected in 7 of 12 samples and at concentrations ranging from 2.5 to 260 ppm. None of the samples exceeded the TPHg or TPHd RBSLs and no benzene was detected. In addition, the twelve soil samples also were analyzed for VOCs. No VOCs were detected in the soil samples other than 14 ppm of sec-butyl benzene and 91 ppm 1,3,5-trimethylbenzene in one of 12 samples, and 6.8 to 78 ppm 1,2,4-trimethylbenzene in two of 12 samples analyzed. Six soil samples were additionally analyzed for semi-VOCs; and no semi-VOCs were detected above laboratory detection limits. No TPHg, volatile organic compounds (VOCs), or semi-VOCs were detected in the five water samples collected. TPHd was detected in three of the six water samples at concentrations ranging from 88 ppm to 140 ppm, but all three were below the RBSL for TPHd (640 ppb).

R.T. Hicks Consultants, 2001

In April 2001, three trenches were excavated on-site for collection of soil and ground water samples. The work was performed by R.T. Hicks to evaluate the site for proposed residential use. Two trenches (TP1 and TP3) were excavated near the western property boundary and one trench (TP2) was excavated north of the existing building. The locations were selected to evaluate depth to ground water near the western property boundary where shallow (1 to 2 feet below the ground surface) ground water was reported in previous investigations and near the central portion of the site where deeper (7 to 8 feet below ground surface) ground water was reported. The locations also were based on areas where hydrocarbon concentrations detected in 1995 appeared lower in 1997. A 2-foot thick gravel layer was reported at approximately 1½ to 2 feet below the ground surface in the two trenches near the western property boundary. The gravel was approximately 2 inches in diameter and the layer contained water. No gravel was observed in the trench near the center of the property. Soil samples in all three trenches were collected at depths between ½ foot and 12 feet. No TPHg, TPHd, or TPHmo were detected at concentrations exceeding RBSLs in the three trenches other than

850 ppm to 2800 ppm TPHd at 5 to 9 feet below the ground surface in the trench (TP1) near the central portion of the western property boundary. TPHg ranging from 2 to 26 ppm was detected in two of six samples, TPHd ranging from 5 to 2,800 ppm was detected in four of six samples, and TPHmo ranging from 92 to 430 ppm was detected in five of six soil samples from TP1. TPHg ranging from 1.1 to 4.6 ppm was detected in two of six samples, TPHd ranging from 8 to 96 ppm was detected in two of six samples, and TPHmo ranging from 12 to 460 ppm was detected in six of six samples from the trench in the northwest corner (TP3). Three of seven soil samples collected from the trench (TP2) north of the existing building contained up to 1.1 to 2 ppm TPHg and two of seven samples contained 12 ppm TPHmo. No benzene was detected in the soil from any of the three trenches. Water samples were collected from water infiltrating into the trenches. Analysis of one of the ponded water samples collected from near the western property boundary detected 1,800 ppb TPHg, 410,000 ppb TPHd, and 81,000 ppb TPHmo. Ponded water samples collected from the other two trenches contained 57 to 59 ppb TPHg, 230 to 2,500 ppb TPHd, and 700 to 70,000 ppb TPHmo. TPHg concentrations reported in the ground water likely were the degradation by-products of diesel based on review of the laboratory chromatograms.

1.2.2 Previous Environmental Reports – 1350 Powell Street

Sample locations and hydrocarbon concentrations detected in soil and ground water during previous investigations are presented in Figures 3, 4, and 5. Previous soil and ground water investigations performed at the 1350 Powell Street property are briefly summarized below:

Brown and Caldwell Laboratories, 1987

A laboratory analytical report for two soil samples collected in 1987 from the former UST pit reported 14 ppm dibromochloromethane and 5.4 ppm toluene in one of the two samples.

R.T. Hicks Consultants, 2001

A subsurface investigation also was performed at the 1350 Powell Street property in 2001. Ten borings were drilled at 1350 Powell Street for collection of soil samples. Nineteen composite soil samples were collected for analysis. TPHg ranging from 8.3 ppm to 750 ppm was detected in seven of 11 samples analyzed, and TPHmo ranging from 6.3 to 220 ppm was detected in nine of 11 samples analyzed. Only one sample (Boring number 3 at 4 to 12 feet) exceeded the RBSL for TPHg or TPHmo. TPHd was detected in 18 of 19 samples analyzed at concentrations ranging from 13 to 4,300 ppm. Nine soil samples were at or above the RBSL for TPHd (500 ppm). Nine ground water samples also were collected from borings at the site. Eight samples were analyzed for BTEX, MTBE and naphthalene; four samples were analyzed for TPHg; three samples were analyzed for CAM 17 metals; one sample was analyzed for TPHd, TPHmo, and TPH as kerosene; and one sample was analyzed for semi-VOCs. TPHg was detected in four of four ground water samples analyzed. Three of the samples exceeded the RBSL for TPHg (500

ppb), with the highest concentration (66,000 ppb) detected in a sample (boring number 4A) collected approximately 20 feet west of the location of the former USTs. Free product was observed on the ground water in boring number 4A. No TPHmo or TPH as kerosene was detected in boring number 4A. Benzene was detected in two of the eight samples at concentrations of 200 ppb and 350 ppb. The two samples (number 4B and 4C) with benzene detected were located adjacent to boring number 4A. None of the other BTEX compounds were detected above RBSLs other than 20 ppb of xylenes in boring number 4C. MTBE was detected in one of eight samples (boring number 2), but at a concentration (5.6 ppb) below the RBSL. Napthalene was detected in three of eight samples at concentrations above the RBSL (24 ppb). No semi-VOCs or metals above RBSLs were detected in the ground water samples analyzed other than 1,100 ppb of barium in the ground water sample from boring number 4B.

Lowney Associates, 2002

Lowney Associates performed a Phase I environmental site assessment (ESA) for Pulte Home Corporation to evaluate 1300 Powell Street and 1350 Powell Street for residential redevelopment in February 2002. Based on the findings of the ESA and discussions with the California Regional Water Quality Control Board (CRWQCB) regarding cleanup guidelines for residential development of the site, further evaluation of soil and ground water quality was recommended, as discussed below.

1.3 Scope of Work

The scope of work for this study was outlined in our agreement February 25, 2002 and included the following tasks.

- Drilling and logging of 25 exploratory borings.
- Excavation of ten exploratory test pits (at four locations) to evaluate fill depth and observe soil conditions.
- Collecting 54 soil and 12 ground water samples for laboratory analysis.
- Evaluating the presence of underground metallic objects at selected on-site locations using geophysical techniques.

2.0 SOIL QUALITY EVALUATION

2.1 Shallow Soil Sampling

On March 6, 2002, and under the supervision of Project Geologist Mark Arniola, R.G., Staff Environmental Engineer Veronica Tiglao directed a subsurface exploration program and logged thirteen soil borings (SS-1 through SS-13) to approximate depths of 4 to 8 feet. SS-1 through SS-9 were drilled on selected locations at 1350 Powell Street and SS-10 through SS-13 were drilled at selected

locations at 1300 Powell Street to evaluate shallow soil quality, depth of fill material, and quality of underlying soil, including areas near present or former railroad tracks and former above-ground storage tanks (ASTs).

Soil sampling protocol and the boring permit are presented in Appendix A.

2.1.1 Soil Sample Collection and Analyses

Thirteen soil samples collected from the fill (where encountered) and thirteen samples from the upper approximately ½ foot of underlying native soil (26 samples total) were analyzed for TPHg, TPHd, and TPHmo (EPA Test Method 8015M); BTEX and MTBE (EPA Test Method 8020); polyaromatic hydrocarbons (PAHs) (EPA Test Method 8310); and polychlorinated biphenyls (PCBs) (EPA Test Method 8082). In addition, six soil samples collected from the fill (where encountered) and six from the upper approximately ½ foot of underlying native soil (12 samples total) were analyzed for organochlorine pesticides (EPA Test Method 8018A), arsenic, lead, cadmium, and mercury (EPA Test Method 6010B/7470); compounds and metals that can be present in soil from historical agricultural use. Three soil samples with the highest concentrations of metals were analyzed for the remainder of the 17 California Assessment Manual (CAM 17) metals (EPA Test Method 6010B). These analyses were selected to help evaluate the quality of the shallow soil and native soil below fill. The results for TPHg, TPHd, TPHmo, BTEX, and MTBE in the fill and native soil were statistically evaluated to establish the sample mean and 95 percent upper confidence level (UCL) of the sample mean. The statistical evaluation results are summarized in Tables 1A and 2A. Analytical results for 1350 Powell Street are presented in Tables 1A, 1B, and 1C. Analytical results for 1300 Powell Street are presented in Tables 2A, 2B, and 2C. Copies of the analytical reports and chain of custody documentation are presented in Appendix C.

Table 1A. Analytical Results of Selected Soil Samples for Petroleum Hydrocarbons – 1350 Powell Street

(concentrations in parts per million)

Sample Number	Depth (feet)	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
SS-1 (fill)	0 - ½	<1.0	**2,400**	**3,100**	<0.005	<0.005	<0.005	<0.005	<0.005
SS-1 (native)	3 ½ - 4	110	94	<50	<0.62	<0.62	<0.62	<0.62	<0.62
SS-2 (fill)	0 - ½	<1.0	100	**960**	<0.005	<0.005	<0.005	<0.005	<0.005
SS-2 (native)	5 - 5 ½	26	150	<50	<0.62	<0.62	<0.62	<0.62	<0.62
SS-3 (fill)	0 - ½	<1.0	34	<50	<0.005	<0.005	<0.005	<0.005	<0.005
SS-3 (native)	3 ½ - 4	210	**790**	<500	<6.2	<6.2	<6.2	<6.2	<6.2
SS-4 (fill)	0 - ½	<1.0	41	110	<0.005	<0.005	<0.005	<0.005	<0.005
SS-4 (native)	3 ½ - 4	110	400	88	<0.62	<0.62	<0.62	<0.62	<0.62
SS-5 (fill)	0 - ½	<1.0	**960**	**1,900**	<0.005	<0.005	<0.005	<0.005	<0.005
SS-5 (native)	7 - 7 ½	210	**700**	<250	<0.62	<0.62	<0.62	<0.62	<0.62
SS-6 (fill)	0 - ½	<1.0	14	55	<0.005	<0.005	<0.005	<0.005	<0.005
SS-6 (native)	6 ½ - 7	67	130	<50	<0.62	<0.62	<0.62	<0.62	<0.62
SS-7 (fill)	0 - ½	<1.0	4.3	<50	<0.005	<0.005	<0.005	<0.005	<0.005
SS-7 (native)	6 - 6 ½	260	440	<50	<0.62	<0.62	<0.62	<0.62	<0.62
SS-8 (fill)	0 - ½	<1.0	12	100	<0.005	<0.005	<0.005	<0.005	<0.005
SS-8 (native)	7 ½ - 8	7.5	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005
SS-9 (fill)	0 - ½	<1.0	5.4	83	<0.005	<0.005	<0.005	<0.005	<0.005
SS-9 (native)	4 ½ - 5	110	120	<500	<0.62	<0.62	<0.62	<0.62	<0.62
Residential PRG*		NE	NE	NE	0.65	520	230	210	17
Residential RBSL**		400	500	500	0.18	8.4	24	1.0	1.0
Mean (fill)		<1.0	397	706	<0.005	<0.005	<0.005	<0.005	<0.005
95% UCL (fill)		<1.0	900	1,389	<0.005	<0.005	<0.005	<0.005	<0.005
Mean (native)		123	314	93	<6.2	<6.2	<6.2	<6.2	<6.2
95% UCL (native)		177	490	153	<6.2	<6.2	<6.2	<6.2	<6.2

< Indicates that the compound was not detected at or above the stated laboratory reporting limit
* Preliminary Remediation Goal (PRG)–EPA Region 9, November 2000
** Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
NE Not established

Table 1B. Analytical Results of Selected Soil Samples for PAHs – 1350 Powell Street

(concentrations in parts per million)

Sample Number	Depth (feet)	Naptha-lene[1]	Acenaph-thene[1]	Fluorene[1]	Phenan-threne[1]	Anthra-cene[1]	Pyrene[1]	Chrysene[1]	PCBs
SS-1 (fill)	0 - ½	<0.075	<0.05	<0.025	0.15	<0.025	<0.025	0.099	<0.05
SS-1 (native)	3 ½ - 4	<0.015	0.13	0.44	<0.005	<0.005	<0.005	<0.005	<0.05
SS-2 (fill)	0 - ½	<0.15	<0.1	<0.05	<0.05	<0.05	0.14	<0.05	<0.05
SS-2 (native)	5 - 5 ½	<0.015	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05
SS-3 (fill)	0 - ½	<0.015	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05
SS-3 (native)	3 ½ - 4	<0.015	<0.01	0.25	0.075	<0.005	<0.005	<0.005	<0.05
SS-4 (fill)	0 - ½	<0.075	<0.05	<0.025	0.11	<0.025	<0.025	<0.025	<0.05
SS-4 (native)	3 ½ - 4	<0.015	<0.01	0.27	0.027	<0.005	<0.005	<0.005	<0.05
SS-5 (fill)	0 - ½	<0.15	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SS-5 (native)	7 - 7 ½	<0.015	<0.01	0.49	0.71	<0.005	<0.005	<0.005	<0.05
SS-6 (fill)	0 - ½	<0.15	<0.1	<0.05	<0.05	<0.05	0.29	<0.05	<0.05
SS-6 (native)	6 ½ - 7	<0.015	<0.01	0.033	<0.005	0.016	<0.005	<0.005	<0.05
SS-7 (fill)	0 - ½	<0.015	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05
SS-7 (native)	6 - 6 ½	0.62	<0.01	0.33	0.53	<0.005	<0.005	<0.005	<0.05
SS-8 (fill)	0 - ½	<0.075	<0.05	<0.025	<0.025	<0.025	<0.025	<0.025	<0.05
SS-8 (native)	7 ½ - 8	<0.015	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05
SS-9 (fill)	0 - ½	<0.075	<0.05	<0.025	<0.025	<0.025	0.2	<0.025	<0.05
SS-9 (native)	4 ½ - 5	<0.015	<0.01	0.088	<0.005	0.067	<0.005	<0.005	<0.05
Residential PRG*		56	3,700	2,600	NE	22,000	2,300	62	--
Residential RBSL**		4.9	16	5.1	11	2.9	55	3.8	--

< Indicates that the compound was not detected at or above the stated laboratory reporting limit
* Preliminary Remediation Goal (PRG)–EPA Region 9, November 2000
** Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
NE Not established
ND Not detected at or above laboratory reporting limits
1 Other PAHs were not detected at or above laboratory reporting limits

Table 1C. Analytical Results of Selected Soil Samples for Metals and Pesticides – 1350 Powell Street

(concentrations in parts per million)

Sample Number	Depth (feet)	Arsenic	Cadmium	Lead	Mercury	Organochlorine Pesticides
SS-1 (fill)	0 - ½	<1.0	2.6	110	<0.05	--
SS-1 (native)	3 ½ - 4	--	--	4.3	--	--
SS-2 (fill)	0 - ½	3.7	2.0	32	0.12	ND
SS-2 (native)	5 - 5 ½	2.7	1.3	5.6	<0.05	ND
SS-6[1] (fill)	0 - ½	4.3	2.0	19	0.088	ND
SS-6 (native)	6 ½ - 7	1.8	2.4	5.6	<0.05	ND
SS-7[1] (fill)	0 - ½	**30**	3.4	22	0.19	ND
SS-7 (native)	6 - 6 ½	2.7	1.5	5.0	<0.05	ND
Residential PRG*		0.39/ 22***	9.0	400	23	--
Residential RBSL**		0.39	1.7	200	4.7	--
Background Concentrations[2]		14	1.5	14.7	0.3	--

ND Not detected at or above laboratory reporting limits
< Indicates that the compound was not detected at or above the stated laboratory reporting limit
* Preliminary Remediation Goal (PRG)–EPA Region 9, November 2000
** Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
*** Cancer endpoint/non-cancer endpoint
1 Sample also analyzed for remainder of CAM 17 metals. The additional CAM 17 metals were either not detected or within typical background concentrations
2 Lawrence Berkeley National Laboratory Environmental Restoration Program, 1995

Table 2A. Analytical Results of Selected Soil Samples for Petroleum Hydrocarbons – 1300 Powell Street

(concentrations in parts per million)

Sample Number	Depth (feet)	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
SS-10 (fill)	0 - ½	<1.0	140	**660**	<0.005	<0.005	<0.005	<0.005	<0.005
SS-10 (native)	4 - 4 ½	<1.0	4.7	<50	<0.005	<0.005	<0.005	<0.005	<0.005
SS-11 (fill)	0 - ½	300	**520**	**710**	<6.2	<6.2	<6.2	<6.2	<6.2
SS-11 (native)	3 ½ - 4	<1.0	1.3	<50	<0.005	<0.005	<0.005	<0.005	<0.005
SS-12(fill)	0 - ½	<1.0	430	**2,200**	<0.005	<0.005	<0.005	<0.005	<0.005
SS-12 (native)	4 ½ - 5	<1.0	1.1	<50	<0.005	<0.005	<0.005	<0.005	<0.005
SS-13 (fill)	0 - ½	<1.0	14	110	<0.005	<0.005	<0.005	<0.005	<0.005
SS-13 (native)	3 ½ - 4	<1.0	2.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005
Residential PRG*		NE	NE	NE	0.65	520	230	210	17
Residential RBSL**		400	500	500	0.18	8.4	24	1.0	1.0
Mean (fill)		75	276	920	<6.2	<6.2	<6.2	<6.2	<6.2
95% UCL (fill)		252	556	1,974	<6.2	<6.2	<6.2	<6.2	<6.2
Mean (native)		<1.0	2.3	<50	<0.005	<0.005	<0.005	<0.005	<0.005
95% UCL (native)		<1.0	4.2	<50	<0.005	<0.005	<0.005	<0.005	<0.005

< Indicates that the compound was not detected at or above the stated laboratory reporting limit
* Preliminary Remediation Goal (PRG)–EPA Region 9, November 2000
** Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
NE Not established

Table 2B. Analytical Results of Selected Soil Samples for PAHs – 1300 Powell Street

(concentrations in parts per million)

Sample Number	Depth (feet)	Naptha-lene[1]	Acenaph-thene[1]	Fluorene[1]	Phenan-threne[1]	Anthra-cene[1]	Pyrene[1]	Chrysene[1]	PCBs
SS-10 (fill)	0 - ½	<0.015	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	ND
SS-10 (native)	4 - 4 ½	<0.015	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	ND
SS-11 (fill)	0 - ½	<0.075	<0.05	<0.025	<0.025	<0.025	<0.025	<0.025	ND
SS-11 (native)	3 ½ - 4	<0.015	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	ND
SS-12 (fill)	0 - ½	<0.015	<0.01	<0.005	0.025	<0.005	<0.005	<0.005	ND
SS-12 (native)	4 ½ - 5	<0.015	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	ND
SS-13 (fill)	0 - ½	<0.075	<0.05	<0.025	<0.025	<0.025	<0.025	<0.025	ND
SS-13 (native)	3 ½ - 4	<0.015	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	ND
Residential PRG*		56	3,700	2,600	NE	22,000	2,300	62	--
Residential RBSL**		4.9	16	5.1	11	2.9	55	3.8	--

< Indicates that the compound was not detected at or above the stated laboratory reporting limit
* Preliminary Remediation Goal (PRG)–EPA Region 9, November 2000
** Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
NE Not established
ND Not detected at or above laboratory reporting limits
1 Other PAHs were not detected at or above laboratory reporting limits

Table 2C. Analytical Results of Selected Soil Samples for Metals and Pesticides – 1300 Powell Street

(concentrations in parts per million)

Sample Number	Depth (feet)	Arsenic	Cadmium	Lead	Mercury	Organochlorine Pesticides
EB-4 (native)	4 - 4 ½	1.4	1.1	5.9	0.18	ND
SS-10[1] (fill)	0 - ½	3.9	2.2	59	0.084	ND
SS-10 (native)	4 - 4 ½	3.6	1.9	6.1	<0.05	ND
SS-11 (fill)	0 - ½	1.8	1.6	14	0.056	ND
SS-11 (native)	3 ½ - 4	2.4	1.3	4.7	<0.05	ND
Residential PRG*		0.39/ 22***	9.0	400	23	--
Residential RBSL**		0.39	1.7	200	4.7	--
Background Concentrations[2]		14	1.5	14.7	0.3	--

ND Not detected at or above laboratory reporting limits
< Indicates that the compound was not detected at or above the stated laboratory reporting limit
* Preliminary Remediation Goal (PRG)–EPA Region 9, November 2000
** Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
*** Cancer endpoint/non-cancer endpoint
1 Sample also analyzed for remainder of CAM 17 metals. The additional CAM 17 metals were either not detected or within typical background concentrations
2 Lawrence Berkeley National Laboratory Environmental Restoration Program, 1995

The preliminary remediation goals (PRGs) presented in Tables 1 and 2 are risk-based concentrations developed by EPA Region 9; the RBSLs are risk based concentrations developed by the CRWQCB. PRGs and RBSLs are for use as screening levels in determining if further evaluation is warranted, in prioritizing areas of concern, in establishing initial cleanup goals, and in estimation of potential health risks. The RBSLs additionally evaluate risks to surface water and ground water quality.

The PRGs and RBSLs are chemical concentrations that correspond to fixed levels of risk (either a cancer risk of one in one million [10^{-6}] or a non-carcinogenic hazard quotient of one, whichever occurs at a lower concentration). These levels are based on common exposure pathways, but effects of exposure to multiple contaminants and other site specific conditions are not considered. Thus, they are not intended as a substitute for a site specific health risk assessment. Chemical concentrations above the PRGs and/or RBSLs would not automatically designate the site as a health threat or trigger a response action. Exceeding a PRG or RBSL, however, may suggest that further evaluation of potential risks is appropriate. This further evaluation may include additional sampling and/or the reassessment of the assumptions and routes of exposure that were used to develop the non-site specific PRGs and RBSLs.

Generally, regulatory agencies do not require cleanup below natural background concentrations. In some cases, the predictive risk-based models generate PRG or RBSL levels that lie below typical background concentrations. If natural background concentrations are higher than the risk-based PRGs or RBSLs, an adjustment of the PRG or RBSL is probably needed. An example is naturally-occurring arsenic in soils, which frequently has a higher concentration than the risk-based concentration set at a one-in-one-million cancer risk (the PRG and RBSL for residential soils is 0.39 mg/kg.). After considering background concentrations in a local area, EPA Region 9 has at times used the non-cancer PRG (22 mg/kg) to evaluate sites recognizing that this value tends to be above background levels yet still falls within the range of soil concentrations (0.39 to 39 mg/kg) that equates to the EPA's acceptable cancer risk range of 1×10^{-6} to 1×10^{-4}.

2.2 Deeper Soil Sampling

On March 4 and 5, 2002, and under the supervision of Project Geologist Mark Arniola, R.G., Staff Environmental Geologist Charles Mettler directed a subsurface exploration program and logged twelve borings (EB-1 through EB-12) to approximate depths of 12 to 24 feet. EB-1 through EB-6 were drilled at selected locations on the 1300 Powell Street property and EB-7 through EB-12 were drilled at selected locations on the 1350 Powell Street property to evaluate the vertical and lateral extent of impacted native soil and ground water. Two soil samples were collected from each boring based on field observations and submitted to an analytical laboratory. Ground water was encountered at approximate depths of 7½ to 22½ feet.

To evaluate soil quality, the soil samples collected from borings EB-1 through EB-12 were monitored for volatile hydrocarbons using an organic vapor meter (OVM). The OVM results, shown on the boring logs presented in Appendix B, were used to help select samples for laboratory analyses.

Soil sampling protocol is presented in Appendix A. The boring logs are presented in Appendix B.

2.2.1 Soil Sample Collection and Analyses

Soil samples collected from the first native soil, or those with the highest OVM readings, were selected for submittal to a state-certified analytical laboratory.

Twenty-four soil samples were analyzed for total petroleum hydrocarbons in the gasoline (TPHg), diesel (TPHd), and motor oil range (TPHmo) (EPA Test Method 8015M); benzene, toluene, ethylbenzene, and xylenes (BTEX) and MTBE (EPA Test Method 8020). Eight selected soil samples were additionally analyzed for VOCs (EPA Test Method 8260). These analyses were selected to help evaluate the vertical and lateral extent of impacted soil. Analytical results for 1300 Powell Street are presented in Table 3A and analytical results for 1350 Powell Street are presented in Table 3B. Copies of the analytical reports and chain of custody documentation are presented in Appendix C.

Table 3A. Analytical Results of Selected Soil Samples for Petroleum Hydrocarbons and VOCs – 1300 Powell Street

(concentrations in parts per million)

Boring Number	Depth (feet)	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	VOCs
EB-1	7 - 7 ½	<1.0	1.1	<50	<0.005	<0.005	<0.005	<0.005	<0.005	ND
EB-1	17 ½ - 18	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005	NA
EB-2	9 - 9 ½	<1.0	1.2	<50	<0.005	<0.005	<0.005	<0.005	<0.005	NA
EB-2	11 - 11 ½	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005	0.12[1]
EB-3	8 - 8 ½	11	94	<50	<0.005	<0.005	<0.005	<0.005	<0.005	ND
EB-3	15 ½ - 16	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005	NA
EB-4	6 ½ - 7	<1.0	5.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005	NA
EB-4	11 ½ - 12	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005	NA
EB-5	7 ½ - 8	2.0	62	<50	<0.005	<0.005	<0.005	<0.005	<0.005	ND
EB-5	9 ½ - 10	15	10	<50	<0.62	<0.62	<0.62	<0.62	<0.62	NA
EB-6	9 - 9 ½	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005	NA
EB-6	11 - 11 ½	<1.0	<1.0	<50	<0.005	<0.005	<0.005	<0.005	<0.005	NA
Residential PRG*		NE	NE	NE	0.65	520	230	210	17	--
Residential RBSL**		400	500	500	0.18	8.4	24	1.0	1.0	--

1 VOC detected was Acetone.
< Indicates that the compound was not detected at or above the stated laboratory reporting limit
* Preliminary Remediation Goal (PRG)–EPA Region 9, November 2000
** Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
NA Not Analyzed
ND Not detected at or above laboratory reporting limits
NE Not established

Table 3B. Analytical Results of Selected Soil Samples for Petroleum Hydrocarbons and VOCs – 1350 Powell Street
(concentrations in parts per million)

Boring Number	Depth (feet)	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	VOCs
EB-7	9 - 9 ½	85	190	<100	<0.62	<0.62	<0.62	<0.62	<0.62	0.86[1]
EB-7	14 - 14 ½	8.7	78	<50	<0.005	<0.005	<0.005	<0.005	<0.005	NA
EB-8	6 - 6 ½	36	190	52	<0.62	<0.62	<0.62	<0.62	<0.62	NA
EB-8	12 -12 ½	<1.0	12	<50	<0.005	<0.005	<0.005	<0.005	<0.005	NA
EB-9	7 ½ - 8	260	**560**	<250	<0.62	<0.62	<0.62	<0.62	<0.62	1.16[2]
EB-9	14 - 14 ½	100	140	<100	<0.62	<0.62	<0.62	<0.62	<0.62	NA
EB-10	6 - 6 ½	380	**1,100**	<500	<3.1	<3.1	<3.1	<3.1	<3.1	NA
EB-10	9 - 9 ½	150	350	<500	<0.023	<0.023	<0.023	<0.023	<0.023	ND
EB-11	6 - 6 ½	160	**820**	<500	<0.62	<0.62	<0.62	<0.62	<0.62	NA
EB-11	9 - 9 ½	130	330	<250	<0.62	<0.62	<0.62	0.92	<0.62	NA
EB-12	6 - 6 ½	**980**	110	<500	3.4	15	9.5	43	<2.5	44.54[3]
EB-12	8 - 8 ½	**760**	**890**	<500	12	5.4	7.1	5.7	<3.1	NA
Residential PRG*		NE	NE	NE	0.65	520	230	210	17	–
Residential RBSL**		400	500	500	0.18	8.4	24	1.0	1.0	–

1 VOCs detected were 0.54 ppm n-butylbenzene and 0.32 ppm sec-butylbenzene
2 VOCs detected were 0.64 ppm n-butylbenzene and 0.52 ppm sec-butylbenzene
3 VOCs detected were 4.0 ppm naphthalene, 1.1 ppm isopropylbenzene, 27 ppm 1,2,4-trimethylbenzene, 7.5 ppm 1,3,5-trimethylbenzene, 3.9 ppm n-propylbenzene,, 0.4 ppm p-isopropyltoluene, and 0.64 ppm sec-butylbenzene
< Indicates that the compound was not detected at or above the stated laboratory reporting limit
* Preliminary Remediation Goal (PRG)–EPA Region 9, November 2000
** Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
NA Not Analyzed
ND Not detected at or above laboratory reporting limits
NE Not established

2.3 Exploratory Test Pits

On March 8, 2002, and under the supervision of Project Geologist Mark Arniola, R.G.; Staff Environmental Geologist Charles Mettler directed exploratory excavation at four selected areas on-site (ten test pits total) using a backhoe. The test pits (TP-1A, TP-1B, TP-1C, TP-2A, TP-2B, TP-2C, TP-3A, TP-3B, TP-4A, and TP-4B on Figure 2) were excavated to evaluate the extent of a shallow gravel layer reported near the property boundary between 1300 and 1350 Powell Street. A previous investigation reported petroleum hydrocarbon impacted ground water in the gravel layer (R.T. Hicks, 2001). If remediation of the gravel layer is required, determination of

the extent of the gravel layer will help evaluate the volume that may need dewatering. Test pit locations were selected based on field observations and historical data review. The gravel layer was encountered in test pits TP-3A, TP-4A, and the eastern portion of test pit TP-3B on the 1300 Powell Street property. The gravel layer also was encountered in test pits TP-1A, TP-1B, TP-2A, and TP-2B on the 1350 Powell Street property. Perched ground water was encountered in the gravel layer in test pits TP-2A, TP-2B, TP-3A, TP-3B, and TP-4A.

In addition to the gravel layer, a layer of debris (concrete, brick, asphalt, wood, glass, and metal) was encountered in seven of the ten test-pits (TP-1A, TP-1B, TP 1C, TP-2B, TP-2C, TP-3B, TP-4B on Figure 2). Perched ground water also was encountered in the debris layer in test pits TP-1A, TP-1B, TP-1C, TP-2B, and TP-2C. At the completion of excavation and sampling activities, the test pits were loosely backfilled with the excavated soil.

2.3.1 Soil Sample Collection and Analyses

Four soil samples collected from the test pits were analyzed at a state-certified laboratory for TPHg, TPHd, and TPHmo (EPA Test Method 8015M); BTEX and MTBE (EPA Test Method 8020). In addition, two soil samples from the debris layer were analyzed for PAHs (EPA Test Method 8310); PCBs (EPA Test Method 8082); CAM 17 Metals (EPA Test Method 6010B); and asbestos. These analyses were selected to evaluate the soil quality in the shallow gravel and debris fill. Soil sampling protocol is presented in Appendix A. Test pit logs are presented in Appendix B.

Analytical results are presented in Table 4. Copies of the analytical reports and chain of custody documentation are presented in Appendix C.

Table 4A. Analytical Results of Selected Soil Samples from Test Pits – Petroleum Hydrocarbons

(concentrations in parts per million)

Sample Number	Depth (feet)	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
TP-2B (debris layer)	1½	NA	**1,800**	<1,000	NA	NA	NA	NA	NA
TP-3B (gravel layer)	1½	<1.0	**890**	**2,200**	<0.005	<0.005	<0.005	<0.005	<0.005
TP-4A (gravel layer)	2	<1.0	230	**900**	<0.005	<0.005	<0.005	<0.005	<0.005
TP-4B (debris layer)	2	NA	3.6	<50	NA	NA	NA	NA	NA
Residential PRG*		NE	NE	NE	0.65	520	230	210	17
Residential RBSL**		400	500	500	0.18	8.4	24	1.0	1.0

< Indicates that the compound was not detected at or above the stated laboratory reporting limit
* Preliminary Remediation Goal (PRG)–EPA Region 9, November 2000
** Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
NE Not established

Table 4B. Analytical Results of Selected Soil Samples Test Pits – Metals, PCBs, PAHs

(concentrations in parts per million)

Sample Number	Depth (feet)	PAHs	PCBs	Arsenic[2]	Cadmium[2]	Lead[2]	Mercury[2]	Asbestos
TP-2B (debris layer)	1½	1.13[1]	ND	9.0	2.1	54	0.21	ND
TP-4B (debris layer)	2	ND	ND	9.4	3.0	15	0.083	ND
Residential PRG*		--	--	0.39/ 22***	9.0	400	23	NE
Residential RBSL**		---	--	0.39	1.7	200	4.7	NE
Background Concentrations[3]		--	--	14	1.5	14.7	0.3	–

< Indicates that the compound was not detected at or above the stated laboratory reporting limit
* Preliminary Remediation Goal (PRG)–EPA Region 9, November 2000
** Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
*** Cancer endpoint/non-cancer endpoint
1 PAHs detected were 0.25 ppm napthalene and 0.88 ppm phenanthrene. The RBSL for napthalene is 4.0 ppm and the RBSL for phenanthrene is 11 ppm.
2 Other CAM 17 metals were not detected above laboratory reporting limits or within typical background concentrations
3 Lawrence Berkeley National Laboratory Environmental Restoration Program, 1995
ND Not detected at or above laboratory reporting limits

2.4 Fill Materials Encountered

Based on the subsurface information in this evaluation, fill generally was encountered across the entire site. Fill material at depths of approximately 1 to 6 feet was encountered in all the borings and test pits at 1300 Powell Street and 1350 Powell Street, although several locations with fill up to approximately 7 to 10 feet in thickness also were observed in borings. Native soil immediately below the fill was generally clay to silty clay. The fill varied in composition from silty clays to clayey gravels and included an approximately ½- to 1-foot thick gravel layer encountered near the western property boundary at 1300 Powell Street. The gravel layer also appeared to extend onto the eastern portion of 1350 Powell Street. Exploratory test pits on both properties uncovered debris (concrete, brick, asphalt, wood, glass, and metal) in the fill at approximate depths of 1 to 3 feet below the ground surface. Fragments of debris also were observed in borings on the northern, eastern and southwestern portions of 1350 Powell Street and most of 1300 Powell Street with the exception of the northwestern area and beneath the northwestern portion of the existing building (Figure 6). Perched ground water was encountered in both the gravel layer and debris layer at test pits TP-1A, TP-1B, TP-1C, TP-1A, TP-2B, TP-2C, and TP-4A as shown on the test pit logs in Appendix B.

3.0 GROUND WATER QUALITY EVALUATION

3.1 Ground Water Sample Collection and Analyses

To evaluate ground water quality at the site, ground water grab samples were collected from borings EB-1 through EB-12. A discussion of sampling protocol is included in Appendix A.

The twelve ground water samples were analyzed for total petroleum hydrocarbons in the gasoline (TPHg), diesel (TPHd), and motor oil range (TPHmo) (EPA Test Method 8015M); benzene, toluene, ethylbenzene, and xylenes (BTEX) and MTBE (EPA Test Method 8020); and VOCs (EPA Test Method 8260). Analytical results for the 1300 Powell Street property are presented in Tables 5A and 5B. Analytical results for the 1350 Powell Street property are presented in Tables 6A and 6B. Copies of the laboratory reports are attached in Appendix C.

Table 5A. Analytical Results of Selected Ground Water Samples for Petroleum Hydrocarbons – 1300 Powell Street

(concentrations in parts per billion)

Boring Number	Date	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
EB-1	03/04/02	<50	92	<610	<0.5	<0.5	<0.5	<1.0	<5.0
EB-2	03/04/02	<50	<74	<740	<0.5	<0.5	<0.5	<1.0	11
EB-3	03/04/02	590	2,800	<1,000	<0.5	<0.5	<0.5	<1.0	7.3
EB-4	03/04/02	<50	4,600	31,000	<0.5	<0.5	<0.5	<1.0	<5.0
EB-5	03/04/02	4,900	800,000	<45,0000	<2.0	<2.0	<2.0	<4.0	<20
EB-6	03/04/02	<50	150	<810	<0.5	<0.5	<0.5	<1.0	<5.0
MCL*		NE	NE	NE	1.0	150	700	1,750	13
RBSL **		500	640	640	46	130	290	13	1,800

< Indicates that the compound was not detected at or above the 0stated laboratory reporting limit
* Drinking water Maximum Contaminant Levels–California DHS, January 31, 2001
** Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
NE Not established

Table 5B. Analytical Results of Selected Ground Water Samples for VOCs – 1300 Powell Street

(concentrations in parts per billion)

Boring Number	Date	n-Butylbenzene[1]	Sec-Butylbenzene[1]	Iso-Propylbenzene[1]	Napthalene[1]	n-Propylbenzene[1]
EB-1	03/04/02	<1.0	<1.0	<0.5	<1.0	<1.0
EB-2	03/04/02	<1.0	<1.0	<0.5	<1.0	<1.0
EB-3	03/04/02	<1.0	<1.0	<0.5	<1.0	<1.0
EB-4	03/04/02	<1.0	<1.0	<0.5	<1.0	<1.0
EB-5	03/04/02	5.9	18	6.0	6.5	<1.0
EB-6	03/04/02	<1.0	<1.0	<0.5	<1.0	<1.0
MCL*		NE	NE	NE	NE	NE
RBSL **		NE	NE	NE	24	NE

1 Other VOCs were not detected at or above the stated laboratory reporting limit .
< Indicates that the compound was not detected at or above the stated laboratory reporting limit
* Drinking water Maximum Contaminant Levels–California DHS, January 31, 2001
** Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
NE Not established

Table 6A. Analytical Results of Selected Ground Water Samples for Petroleum Hydrocarbons – 1350 Powell Street

(concentrations in parts per billion)

Boring Number	Date	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
EB-7	03/05/02	260	7,300	<500	<0.5	<0.5	<0.5	<1.0	<5.0
EB-8	03/05/02	<50	100	<580	<0.5	<0.5	<0.5	<1.0	<5.0
EB-9[1]	03/05/02	17,000	24,000,000	<2,000,000	<5.0	<5.0	<5.0	<10	<50
EB-10[2]	03/05/02	5,900	4,400,000	<400,000	<5.0	<5.0	<5.0	<10	<50
EB-11	03/05/02	280	2,100	<580	<5.0	<5.0	<5.0	<10	100
EB-12[2]	03/05/02	170,000	20,000,000	<1,500,000	5,800	77	<50	<100	<500
MCL*		NE	NE	NE	1.0	150	700	1,750	13
RBSL **		500	640	640	46	130	290	13	1,800

< Indicates that the compound was not detected at or above the 0stated laboratory reporting limit
* Drinking water Maximum Contaminant Levels–California DHS, January 31, 2001
** Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
NE Not established
1 Hydrocarbon sheen observed on ground water at sample location
2 Free product observed on ground water at sample location

Table 6B. Analytical Results of Selected Ground Water Samples for VOCs – 1350 Powell Street

(concentrations in parts per billion)

Boring Number	Date	n-Butylbenzene[1]	Sec-Butylbenzene[1]	Iso-Propylbenzene[1]	Napthalene[1]	n-Propylbenzene[1]
EB-7	03/05/02	<1.0	3.4	<0.5	4.2	<1.0
EB-8	03/05/02	<1.0	<1.0	<0.5	<1.0	<1.0
EB-9	03/05/02	42	45	29	22	28
EB-10	03/05/02	23	21	14	20	13
EB-11	03/05/02	20	25	14	16	<10
EB-12	03/05/02	<100	<100	<50	<100	<100
MCL*		NE	NE	NE	NE	NE
RBSL **		NE	NE	NE	24	NE

1 Other VOCs were not detected at or above the stated laboratory reporting limit
< Indicates that the compound was not detected at or above the stated laboratory reporting limit
* Drinking water Maximum Contaminant Levels–California DHS, January 31, 2001
** Risk Based Screening Level (RBSL), CRWQCB, December 2001, Table B
NE Not established

3.2 Silica Gel Filter

The ground water samples were passed through a silica gel column prior to the TPHd analysis (EPA Test method 8015) to help remove non-fuel hydrocarbons. The silica gel removes oxygenated organic compounds produced by biologic degradation of organic materials. Studies have shown that the silica gel filter does not significantly remove extractable range petroleum hydrocarbons, including diesel, because the petroleum hydrocarbons are composed of non-polar substances (Zemo 1997). Performing the silica gel filtration prior to analysis is important where the samples are collected from organic rich environments common to the shallow ground water-bearing zones in the San Francisco Bay Area; these environments contain significant concentrations of naturally-occurring hydrocarbons that can be detected in the EPA 8015 analysis and falsely quantified by the laboratory as diesel.

4.0 GEOPHYSICAL SURVEY

To evaluate whether metallic underground storage tanks (USTs) or other subsurface metallic structures may be present around the on-site structures, registered geophysicist Jim Rezowalli used a magnetometer and a pipe and cable locator to map the vertical magnetic gradient on accessible outdoor areas of the site.

The magnetic gradient is uniform throughout a site free of ferrous metal. Metal objects, however, will produce magnetic anomalies with characteristic shapes and magnitudes if not masked by overlying or nearby metallic debris. Magnetic data were collected on stations at 10-foot intervals along traverse lines spaced 10 feet apart. The data were downloaded to a computer and contoured. Ground penetrating radar (GPR) was used to augment the magnetic investigation as needed. Detailed results of the survey are presented in Appendix D.

4.1 Backhoe Evaluation of Anomalies

The site contained numerous strong magnetic anomalies from surface metal and buried utilities; these magnetic anomalies will mask magnetic anomalies from buried metal structures. One magnetic anomaly that did not appear to be caused by either buried pipes or surface metal was located near the southeast corner of 1350 Powell Street. Excavation with a backhoe was conducted to further evaluate the magnetic anomaly by Lowney Associates on March 8, 2002. No buried metal was found at the anomaly location (AT-1). Based on the results of the backhoe evaluation, the anomaly may have been caused by metal in the side of the building foundation (Appendix D).

5.0 CONTAMINANT DISTRIBUTION

5.1 Soil

1300 Powell Street

Based on historical data and the data in this evaluation, the hydrocarbon impacted soil at 1300 Powell Street appeared primarily limited to the upper 4 feet of fill with the exception of one area near the central portion of the western property boundary. Based on discussions with the CRWQCB, if total hydrocarbon (TPHg + TPHd + TPHmo) concentrations in the upper 10 feet of soil at the site are below 1,000 ppm, the site will be approved for residential development. Approximate areas with total hydrocarbons (TPHg + TPHd + TPHmo) exceeding 1,000 ppm are shown on Figure 4. Two shallow (less than approximately 4 feet in depth) hydrocarbon impacted areas exceeding 1,000 ppm total TPH are shown on Figure 4 north/northwest of the existing building in areas where former ASTs were located. These locations were also near a former steam-cleaning area near the northwest corner of the existing building. The third shallow hydrocarbon impacted area was located at the southwest portion of the site near the southern property boundary. The hydrocarbons in the soil at this location may be from localized surface spills or from hydrocarbons in surface water that may have ponded at this location. The area at the western boundary of the site where deeper (approximately 5 to 9 feet) soil impact was detected is at a location where warped and worn asphalt had been reported (Lush, 1995).

1350 Powell Street

As noted above, if total TPH concentrations in the upper 10 feet of soil at the site are below 1,000 ppm, the site will be approved for residential development. Four general areas exceeding 1,000 ppm total TPH are located at 1350 Powell Street as shown on Figure 6. TPH contamination extending deeper than approximately 5 feet in depth was detected in the four areas shown on Figure 6 with the exception of the northernmost portion of the northern area. Based on the depth and location of the impacted soil at the southwest portion of the site, the hydrocarbons are likely from the former USTs located near the southwest corner of the central storage building. Contaminated soil at the north central area (near borings number 1, 5, and SS-3) is likely from the former AST at this location, although the shallower impact further to the north (near borings SS-1 and SS-2) is likely from unrelated surface spills. The hydrocarbon impacted soil at the east central portion of the site (east of boring EB-9) also is located near former ASTs, but surface spills in the area may have contributed to the contamination. The source of the impacted soil near the northwest property boundary (around boring EB-10) is not clear.

5.2 Ground Water

1300 Powell Street

Based on discussions with staff at the CRWQCB, if total hydrocarbon (TPHg + TPHd + TPHmo) concentrations in the ground water are in the 10,000 to 20,000 ppb range or less, the site will be approved for residential development. Three limited areas of ground water contamination over 10,000 ppb are shown on Figure 8. Hydrocarbon contamination was detected in the ground water (at depths of 8 to 12 feet below the ground surface) at the north central and northwest protions of 1300 Powell Street that may be from former ASTs at these locations. However, hydrocarbon impact also was detected in perched water in a gravel layer (at approximate depth of 1 to 2 feet) in the northwest area that may be from spills or leaks related to vehicle maintenance or container storage. The source of the hydrocarbon impact in the ground water (at a depth of approximately 7 to 8 feet) near the west central property boundary is unclear, but may be related to surface runoff to warped and degraded asphalt reported at this location in 1995 (Lush, 1995). In addition, hydrocarbon impact also was reported in perched water in the gravel layer at this location.

1350 Powell Street

Free product was observed on the ground water at borings number 4A, EB-10, and EB-12. The ground water was first encountered at depths of approximately 6½ to 9 feet below the ground surface in these borings. In addition, a hydrocarbon sheen was observed on the ground water at EB-9 (at a depth of approximately 18½ feet). Dissolved total hydrocarbon concentrations in ground water samples collected outside of these areas (to the east and north) were less than 10,000 ppb. The concentrations detected within the area shown on the western portion of Figure 8 are for samples that contained product or sheen and are not likely representative of the dissolved concentration. The product observed at boring number 4A and EB-12 is located down-gradient (for a west/southwest gradient) and cross-gradient from the former USTs and likely originated from this source. The hydrocarbon sheen observed at EB-9 is located near the former ASTs at the site. The source of the product at EB-10 is not clear, but it is located downgradient of the former ASTs.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Soil Quality

6.1.1 1300 Powell Street

No BTEX, MTBE, PCBs, organochlorine pesticides, or asbestos were detected in the soil samples analyzed in this or previous soil quality evaluations. No VOCs, semi-VOCs, or PAHs above RBSLs were detected in the fill or native soil. Metals were either not detected or below RBSLs. Laboratory analysis of soil samples collected from this evaluation and previous investigations detected levels of TPHg, TPHd, or

TPHmo above RBSLs in eight of 79 samples analyzed. The concentrations exceeding RBSLs were detected in the shallow (less than approximately 4 feet in depth) fill at SS-10, SS-11, SS-12, B4, CB-12, TP-3B, and TP-4A. Two shallow (less than approximately 4 feet in depth) hydrocarbon impacted areas north/northwest of the existing building are in areas where former ASTs were located. These locations were also near a former steam-cleaning area near the northwest corner of the existing building. A shallow hydrocarbon impacted area at the southwest portion of the site near the southern property boundary may be from localized surface spills or from hydrocarbons in surface water that may have ponded at this location.

Hydrocarbon concentrations detected in the deeper (greater than approximately 4 feet in depth) samples were generally less than RBSLs with the exception of 850 to 2,800 ppm TPHd in the native soil 5 to 9 feet below the ground surface at TP1. This was a location where worn and warped asphalt was reported in 1995. The vertical extent of the impacted soil appears limited.

Based on discussions with the staff of CRWQCB, if total hydrocarbon (TPHg + TPHd + TPHmo) concentrations in the upper 10 feet of soil at the site are below 1,000 ppm, the site will be approved for residential development. If the site is redeveloped for residences, remediation of the impacted soil to the site-specific cleanup goals will be required. In addition, the regulatory agencies may require measures to reduce the likelihood of contact with impacted soils and ground water. The regulatory agencies also may require a deed restriction and a soil management plan that presents protocol for addressing impacted soils, buried structures, or debris if encountered during site development. We recommend discussing requirements for obtaining case closure with the CRWQCB staff.

The debris observed in fill on portions of 1300 Powell Street did not appear to significantly impact underlying soil quality; significant contamination (above RBSLs) beneath the debris on the parcel was not detected. The fill containing debris appeared to be located beneath the majority of the property. The buried debris will need to be removed from the site prior to site grading activities. If the current property owner will not be held responsible for the removal and disposal of this material, further analyses should be considered. A work plan for the removal of the debris with confirmation sampling/analyses should be submitted to the appropriate regulatory agency. If impacted soil is observed or suspected following removal of the debris, it must be characterized and appropriately mitigated. Please note that other areas of buried debris may be present on-site and may be encountered during grading activities. This material must be appropriately handled.

6.1.2 1350 Powell Street

No MTBE, benzene, toluene, PCBs, organochlorine pesticides, or asbestos were detected in the soil samples analyzed in this or previous soil quality evaluations. No VOCs, semi-VOCs, or PAHs above RBSLs were detected in the fill or native soil. Metals were either not detected or were below RBSLs with the exception of 30 ppm arsenic in the surface to ½ foot sample at SS-7. BTEX compounds were not

detected in the soil samples with the exception of EB-12 south of the former USTs and boring number 4 west/northwest of the former USTs.

Laboratory analysis of soil samples collected from this evaluation and previous investigations detected levels of TPHg, TPHd, or TPHmo above RBSLs in 19 of 50 samples analyzed. The hydrocarbon concentrations exceeding RBSLs were detected in the fill or soil less than approximately 6 feet in depth at the north end of the property (SS-3, EB-11, boring number 2, SS-2, SS-1, boring number 5, and boring number 1), the central portion of the eastern property boundary (TP-2B and SS-5), and the southeast portion of the property (EB-12 and boring number 4). Hydrocarbon concentrations detected in the samples collected at a deeper depth than 6 feet were located in the soil at the northwest property boundary (EB-10 and EB-11), north central area (boring number 1 and boring number 5), the central portion of the eastern property boundary (SS-5), and the west/southwest portion of the property (EB-12, boring number 4, 6, and 8). The highest concentration of TPHg was detected in the native soil at boring EB-12 near the former gasoline USTs and is likely from releases associated with the USTs. TPHd and TPHmo contaminated soil at the north central area (near borings number 1, 5, and SS-3) is likely from the former AST at this location, although the shallower impact further to the north (near borings SS-1 and SS-2) is likely from surface spills or leaks. The hydrocarbon impacted soil at the east central portion of the site (east of boring EB-9) is located near former ASTs, but surface spills in the area may have contributed to the contamination. The source of the impacted soil near the northwest property boundary (around boring EB-10) is not clear.

Based on discussions with staff at the CRWQCB, if total hydrocarbon (TPHg + TPHd + TPHmo) concentrations in the upper 10 feet of soil at the site are below 1,000 ppm, the site will be approved for residential development. If the site is redeveloped for residences, remediation of the impacted soil to this site-specific cleanup goal will be required. In addition, the regulatory agencies may require measures to reduce the likelihood of contact with impacted soils and ground water beneath the site. The regulatory agencies also may require a deed restriction and a soil management plan that presents protocol for addressing impacted soils, buried structures, or debris if encountered during site development, and long-term management protocol for maintenance workers or landscapers who may encounter soil with residual contaminants beneath the site.

The debris observed in fill on portions of 1350 Powell Street did not appear to significantly impact underlying soil quality; other than hydrocarbons, significant contamination (above RBSLs) beneath the debris on the parcel was not detected. The debris appeared to be located below the northern, eastern, and southern portions of the property. The buried debris will need to be removed from the site prior to site grading activities. If the current property owner will not be held responsible for the removal and disposal of this material, further analyses should be considered. A work plan for the removal of the debris with confirmation sampling/analyses should be submitted to the appropriate regulatory agency. If impacted soil is observed or suspected following removal of the debris, it must be characterized and appropriately mitigated. Please note that other areas of buried

debris may be present on-site and may be encountered during grading activities. This material must be appropriately handled.

6.2 General Ground Water Quality

6.2.1 1300 Powell Street

During this investigation, ground water grab samples were collected from the six borings (EB-1 through EB-6) advanced at selected locations across the 1300 Powell Street property. The samples were collected to better define the extent of ground water contamination detected in previous investigations on the property. No VOCs or BTEX compounds were detected in the six ground water samples analyzed in this investigation or in six samples analyzed in a previous investigation (PES, 2000). Low levels (below the RBSL and drinking water standards) of MTBE were detected in 2 of 6 samples in ground water beneath the property in borings EB-2 (11 ppb) and EB-3 (7.3 ppb) in the northeast (up-gradient) portion of the site and is likely from an off-site source. No MTBE was detected in six previous samples analyzed (PES, 2000). Laboratory analysis of ground water samples collected from the borings also detected TPHg above the RBSL (500 ppb) in two of 15 samples, TPHd above the RBSL (640 ppb) in nine of 19 samples, and TPHmo above the RBSL (640 ppb) in 7 of 12 samples. Ground water contamination above RBSLs appears limited to the central and northern portion of the western property boundary and an area north of the existing building. The highest hydrocarbon concentrations were present in boring EB-5 located near the central portion of the western property boundary. Hydrocarbon contamination in the areas near the western property boundary was detected in both the ground water (at depths of approximately 7 to 8 feet) and perched water in a gravel layer (at approximately 1 to 2 feet).

Based on discussions with staff at the CRWQCB, if total hydrocarbon (TPHg + TPHd + TPHmo) concentrations in the ground water are in the 10,000 to 20,000 ppb range or less, the site will be approved for residential development. If the site is redeveloped for residences, remediation of the impacted ground water to the site-specific cleanup goals will be required. In addition, the regulatory agencies may require installation of monitoring wells, and long-term ground water quality monitoring. Well locations will need to be placed in areas compatible with the development plans. We recommend confirming with the CRWQCB the requirements for obtaining case closure including the placement of wells and the frequency of monitoring.

6.2.2 1350 Powell Street

Ground water grab samples also were collected from the 15 borings advanced during this evaluation and previous investigations at selected locations across the 1350 Powell Street property. Free product was observed on the ground water in borings number 4A, EB-10, and EB-12, and a fuel sheen was observed on the ground water at boring EB-9. No PAHs or VOCs above RBSLs were detected in the ground water. BTEX compounds were not detected in the ground water with the

exception of sample EB-12 (which contained free product) and borings number 4B and 4C (where free product also was observed). TPHg above the RBSL was detected in six of ten samples with the highest concentration (at boring number 4A) located west of the former USTs. TPHd above the RBSL was detected in 7 of 8 samples with the highest concentrations detected on the southwest and north central portions of the property. TPHmo was detected in only in boring EB-12 (which contained free product). Since borings 4A, EB-10, and EB-12 contained free product in equilibrium with the ground water, the sample concentrations are unlikely to be representative of ground water concentrations in areas where the free product is not present. The ground water impacts are likely from commingled hydrocarbons from the USTs and ASTs. The product observed at boring number 4A and EB-12 is located down-gradient and cross-gradient from the former USTs and the hydrocarbon sheen observed at EB-9 is located near the former ASTs at the site. The source of the product at EB-10 is not clear.

Based on discussions with the CRWQCB, if the free product is removed and total hydrocarbon (TPHg + TPHd + TPHmo) concentrations in the ground water are in the 10,000 to 20,000 ppb range or less, the site will be approved for residential development. If the site is redeveloped for residences, remediation of the impacted ground water to the site-specific cleanup goals will be required. In addition, the regulatory agencies may require installation of monitoring wells and long-term ground water quality monitoring. As noted above, we recommend confirming with the CRWQCB the requirements for obtaining case closure including the placement of wells and the frequency of monitoring.

6.3 Regulatory Agency Submittal

We recommend that a copy of this report be sent to the California Regional Water Quality Control Board and Alameda County Environmental Health Department for their review.

7.0 LIMITATIONS

This report was prepared for the use of Pulte Home Corporation in evaluating soil and ground water quality at the 1300 and 1350 Powell Street at the time of this study. We make no warranty, expressed or implied, except that our services have been performed in accordance with environmental principles generally accepted at this time and location. The chemical and other data presented in this report can change over time and are applicable only to the time this study was performed. We are not responsible for the data presented by others.

The accuracy and reliability of geo- or hydro-chemical studies are a reflection of the number and type of samples taken and extent of the analyses conducted, and are thus inherently limited and dependent upon the resources expended. Chemical analyses were performed for specific parameters during this investigation, as detailed in the scope of services. Please note that additional constituents not analyzed for during this evaluation may be present in soil and ground water at the site. Our sampling and analytical plan was designed using accepted environmental

principles and our judgment for the performance of a soil and ground water quality evaluation and was based on the degree of investigation approved by you. It is possible to obtain a greater degree of certainty, if desired, by implementing a more rigorous soil and ground water sampling program or evaluating the risk posed by the contaminants detected, if any.

Magnetic methods locate ferrous objects from the anomalies they produce in the earth's magnetic field. Some ferrous objects may not produce an anomaly. Some possible reasons are that the object is buried too deep, the object is too small, the object is buried under or near another ferrous object, or an object is buried near a utility. The anomalies from metal on the ground surface can mask the anomalies from objects buried below them. It is possible buried objects were not detected due to interference from metal objects on the surface.

8.0 REFERENCES

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Brown and Caldwell Laboratories. 1987. Analytical Report, 1350 Powell Street, Emeryville, California.

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Lush Geosciences. 1995. Baseline Survey Report, Construction Services Facility, 1300 Powell Street, Emeryville, California.

PES Environmental. 2000. Summary Report, Limited Subsurface Environmental Investigation, 1300 Powell Street, Emeryville, California.

R. T. Hicks Consultants. 2001. Phase II Environmental Site Assessment, 1300 Powell Street, Emeryville, California.

R. T. Hicks Consultants. 2001. Subsurface Investigation, 1350 Powell Street, Emeryville, California.

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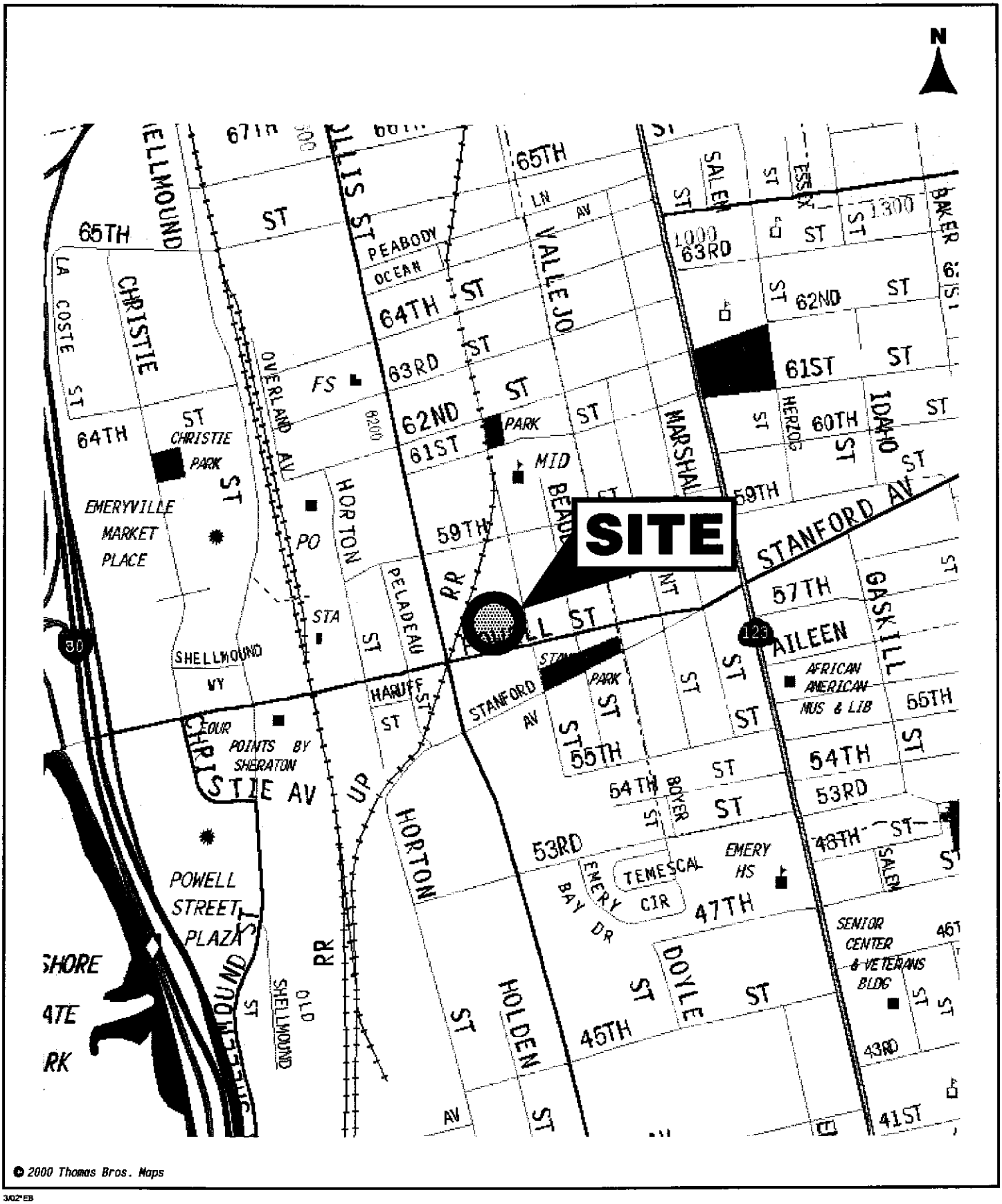


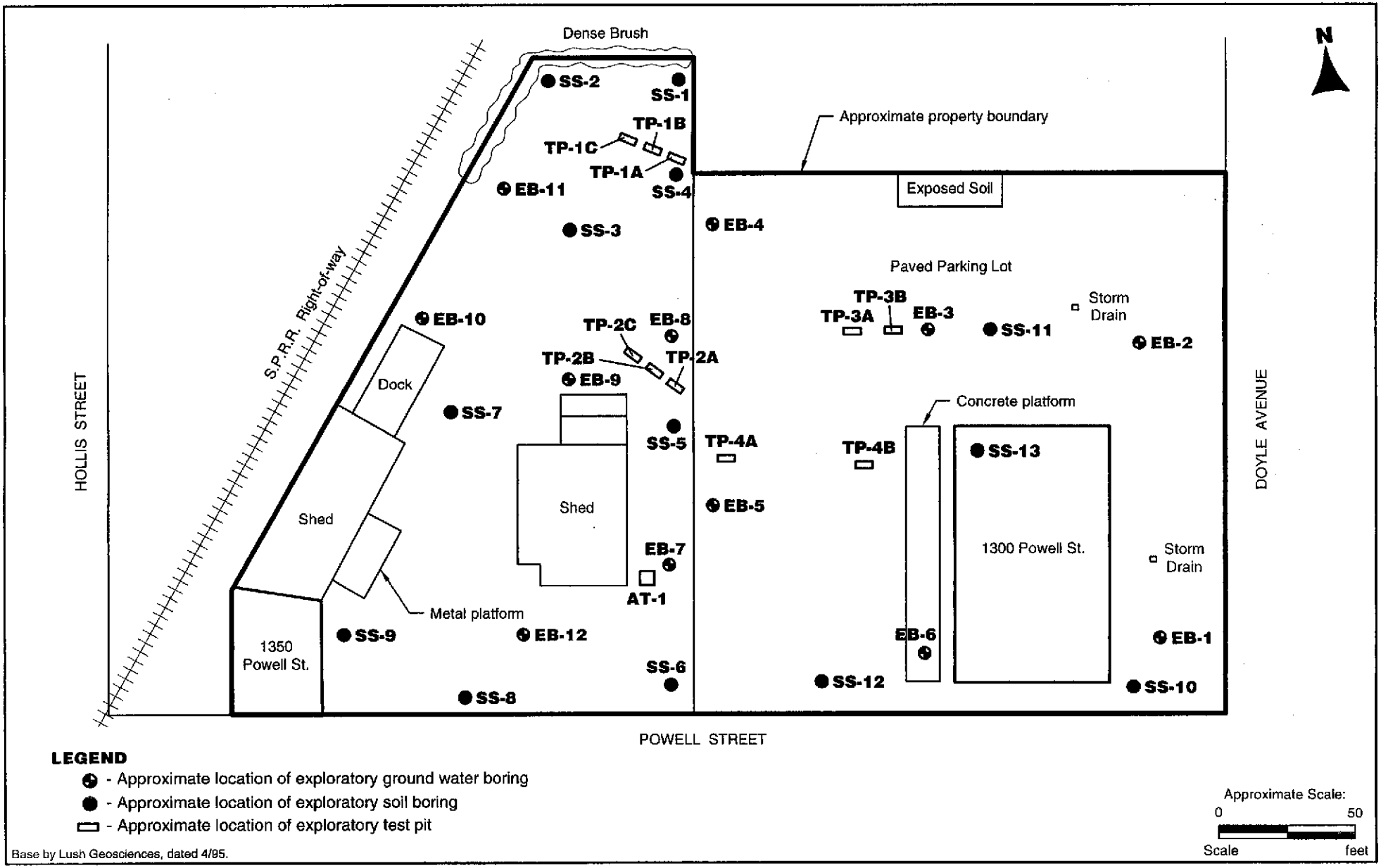
3/02 EB

VICINITY MAP

1300 AND 1350 POWELL STREET
Emeryville, California

LOVNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 1
1424-9B



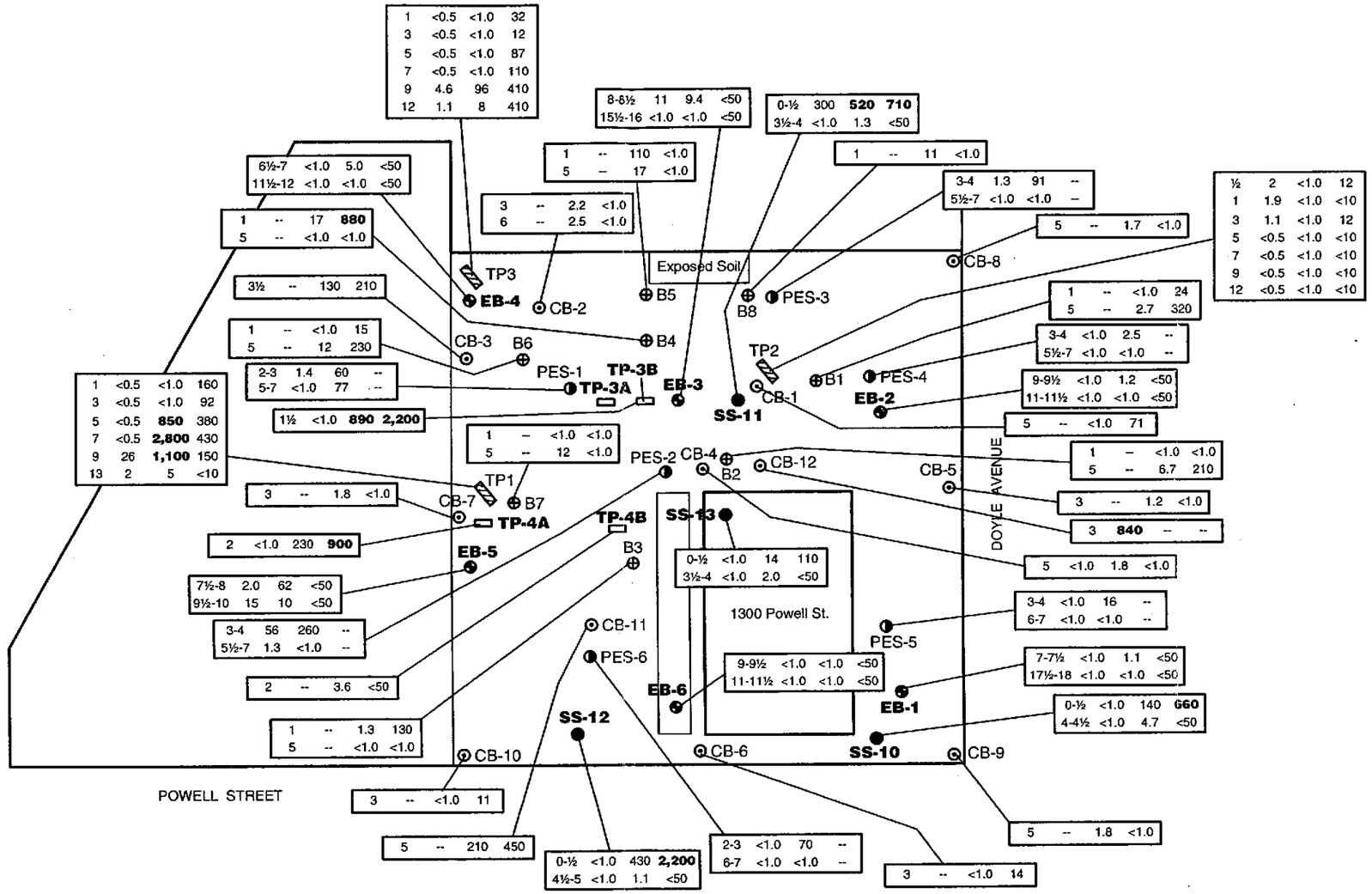
3/02*EB

SITE PLAN

1300 AND 1350 POWELL STREET
Emeryville, California

LOVNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 2
1424-9B



LEGEND

- ◓ - Approximate location of exploratory boring (Lowney Associates, 2002)
- ● - Approximate location of exploratory soil boring (Lowney Associates, 2002)
- ▭ - Approximate location of exploratory test pit (Lowney Associates, 2002)
- ▨ - Approximate location of exploratory test pit (R.T. Hicks, 2001)
- ◑ - Approximate location of exploratory boring (PES, 2000)
- ⊙ - Approximate location of exploratory boring (Cambria, 1997)
- ⊕ - Approximate location of exploratory boring (Lush Geosciences, 1995)
- < - Indicates that the compound was not detected at or above the stated laboratory limit
- -- - Not Analyzed

Concentrations in parts per million (ppm)

Concentrations exceeding CRWQCB RBSLs are shown in bold

Depth(ft)	TPHg	TPHd	TPHmo
--	--	--	--

Approximate Scale:
0 50
Scale feet

Base by Lush Geosciences, dated 4/95.

TPHg, TPHd, AND TPHmo IN SOIL

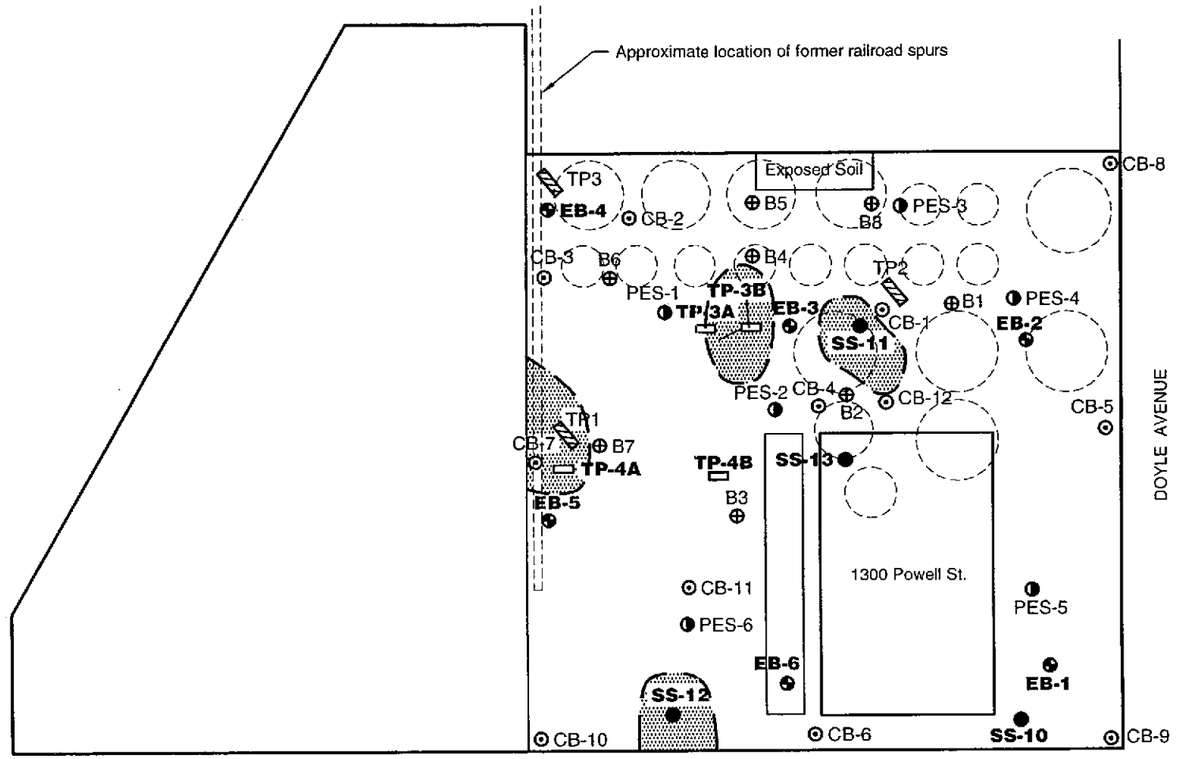
1300 POWELL STREET
Emeryville, California

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 3

1424-9B

5/02*EB



LEGEND

- Approximate area of soil >1,000 ppm total TPH (TPHg + TPHd + TPHmo)
- Approximate location of exploratory boring (Lowney Associates, 2002)
- Approximate location of exploratory soil boring (Lowney Associates, 2002)
- Approximate location of exploratory test pit (Lowney Associates, 2002)
- Approximate location of exploratory test pit (R.T. Hicks, 2001)
- Approximate location of exploratory boring (PES, 2000)
- Approximate location of exploratory boring (Cambria, 1997)
- Approximate location of exploratory boring (Lush Geosciences, 1995)
- Approximate location of former ASTs

Approximate Scale:
0 50
Scale feet

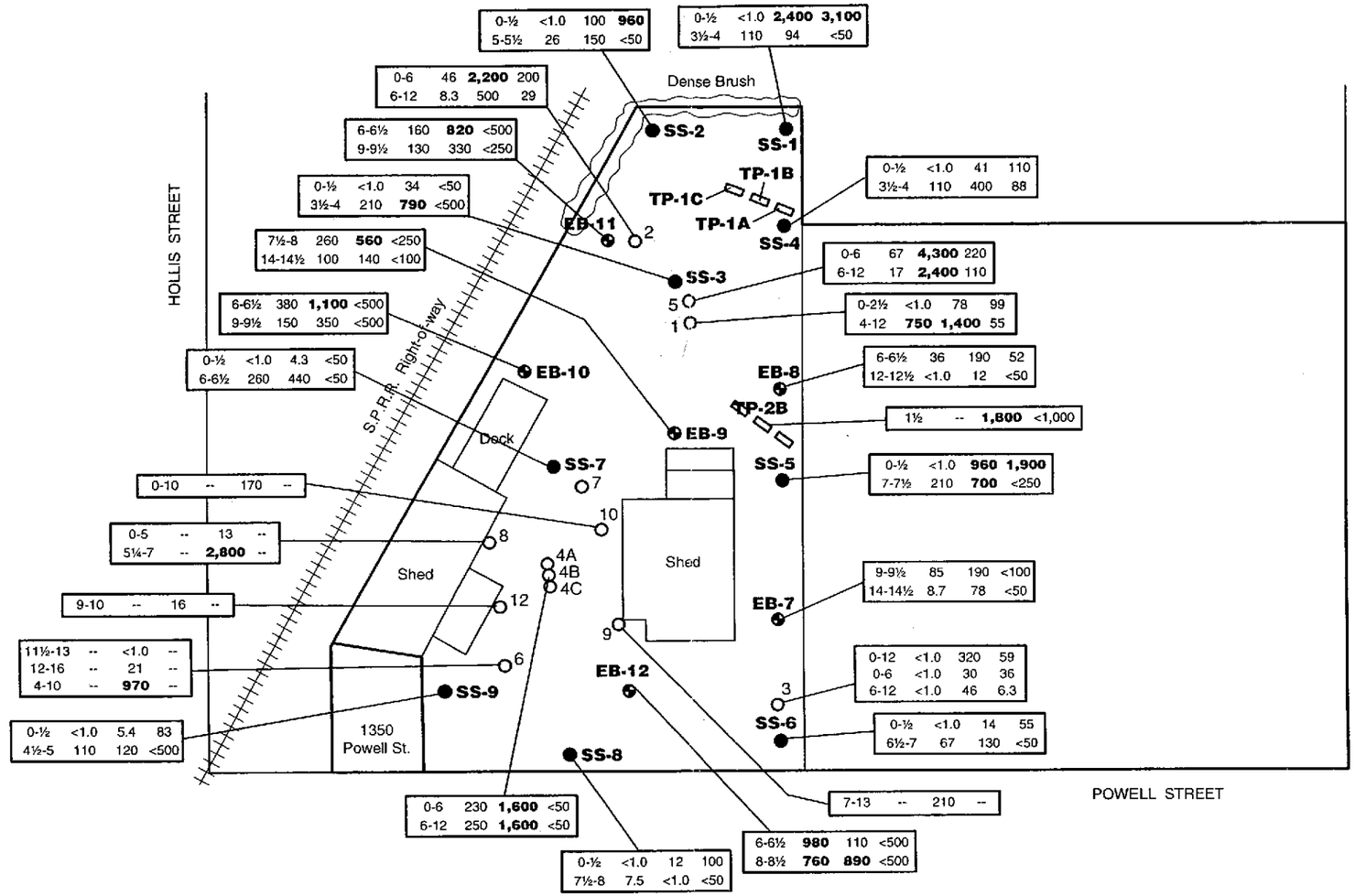
Base by Lush Geosciences, dated 4/95.

TOTAL TPH >1,000 ppm IN SOIL
1300 POWELL STREET
Emeryville, California

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 4
1424-9B

5/02*EB



LEGEND

- ⊕ - Approximate location of exploratory boring (Lowney Associates, 2002)
- ● - Approximate location of exploratory soil boring (Lowney Associates, 2002)
- ▭ - Approximate location of exploratory test pit (Lowney Associates, 2002)
- O - Approximate location of exploratory boring (R.T. Hicks, 2001)
- -- - Not Analyzed
- < - Indicates that the compound was not detected at or above the stated laboratory limit

Concentrations in parts per million (ppm)

Concentrations exceeding CRWQCB RBSLs are shown in bold

Base by Lush Geosciences, dated 4/95.

TPHg, TPHd, AND TPHmo IN SOIL

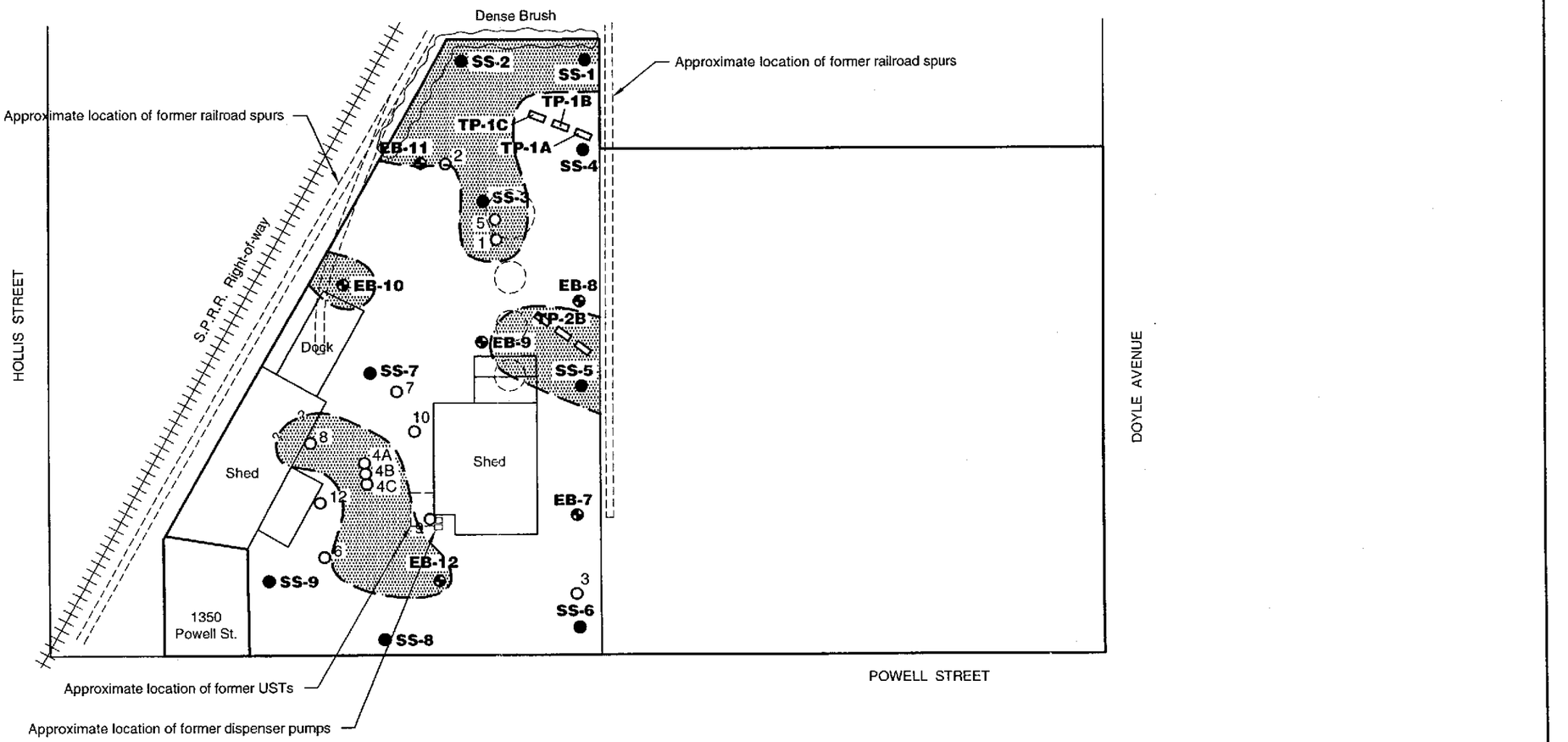
1350 POWELL STREET
Emeryville, California

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 5

1424-9B

5/02*EB



LEGEND

- Approximate area of soil >1,000 ppm total TPH (TPHg + TPHd + TPHmo)
- Approximate location of exploratory boring (Lowney Associates, 2002)
- Approximate location of exploratory soil boring (Lowney Associates, 2002)
- Approximate location of exploratory test pit (Lowney Associates, 2002)
- Approximate location of exploratory boring (R.T. Hicks, 2001)

Approximate Scale:
0 50
Scale feet

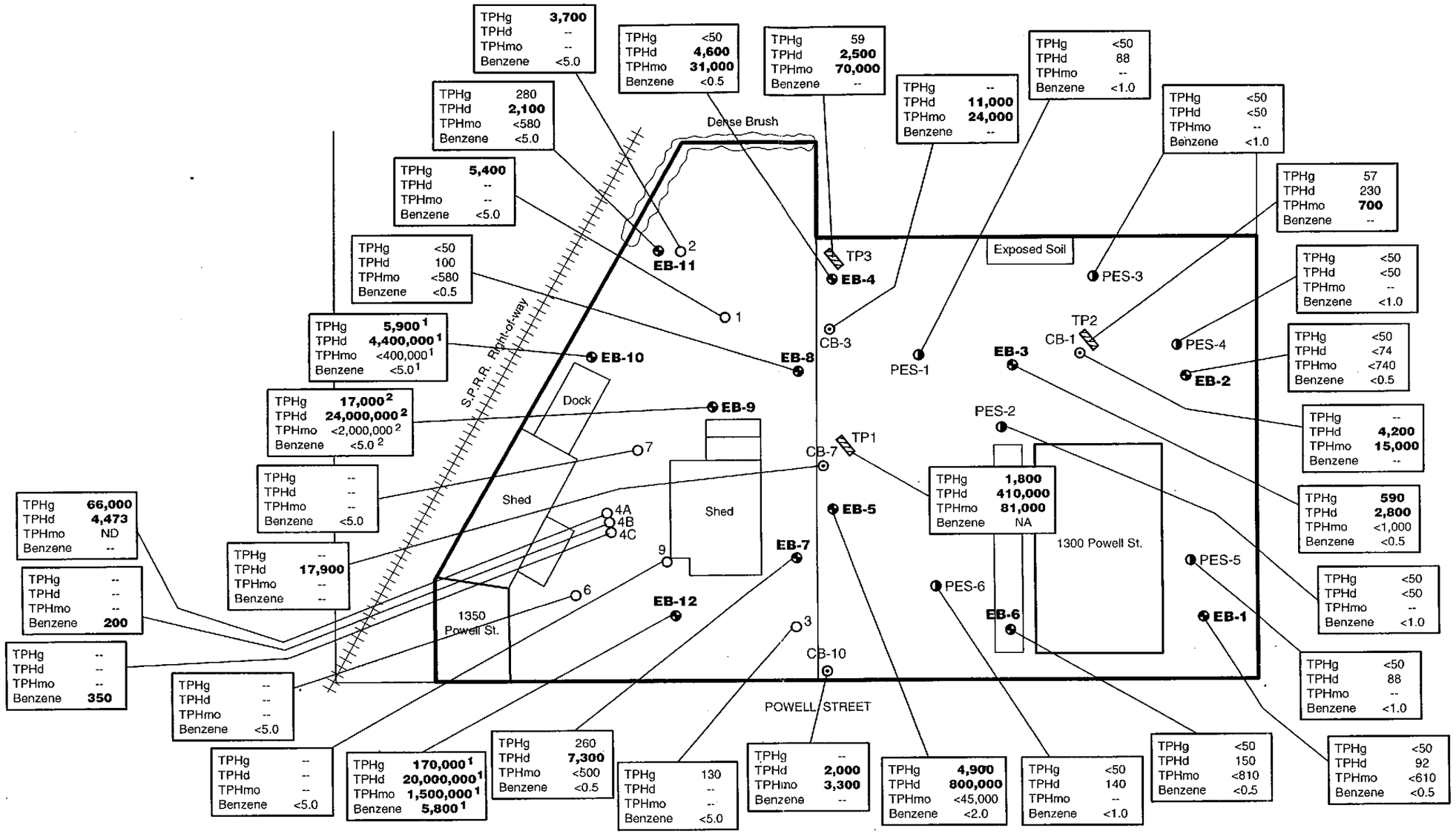
Base by Lush Geosciences, dated 4/95.

TOTAL TPH >1,000 ppm IN SOIL
1350 POWELL STREET
Emeryville, California

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 6
1424-9B

5/02*EB



LEGEND

- ◕ - Approximate location of exploratory boring (Lowney Associates, 2002)
- ○ - Approximate location of exploratory boring (R.T. Hicks, 2001)
- ▱ - Approximate location of exploratory test pit (R.T. Hicks, 2001)
- ◑ - Approximate location of exploratory boring (PES, 2000)
- ⊙ - Approximate location of exploratory boring (Cambria, 1997)
- -- - Not Analyzed

ND - Not detected at or above laboratory reporting limit

Concentrations in parts per billion (ppb)

Concentrations exceeding CRWQCB RBSLs are shown in bold

[1] Free product observed on ground water

[2] Fuel sheen observed on ground water

Approximate Scale:
0 50
Scale feet

Base by Lush Geosciences, dated 4/95.

TPHg, TPHd, TPHmo, AND BENZENE IN GROUND WATER

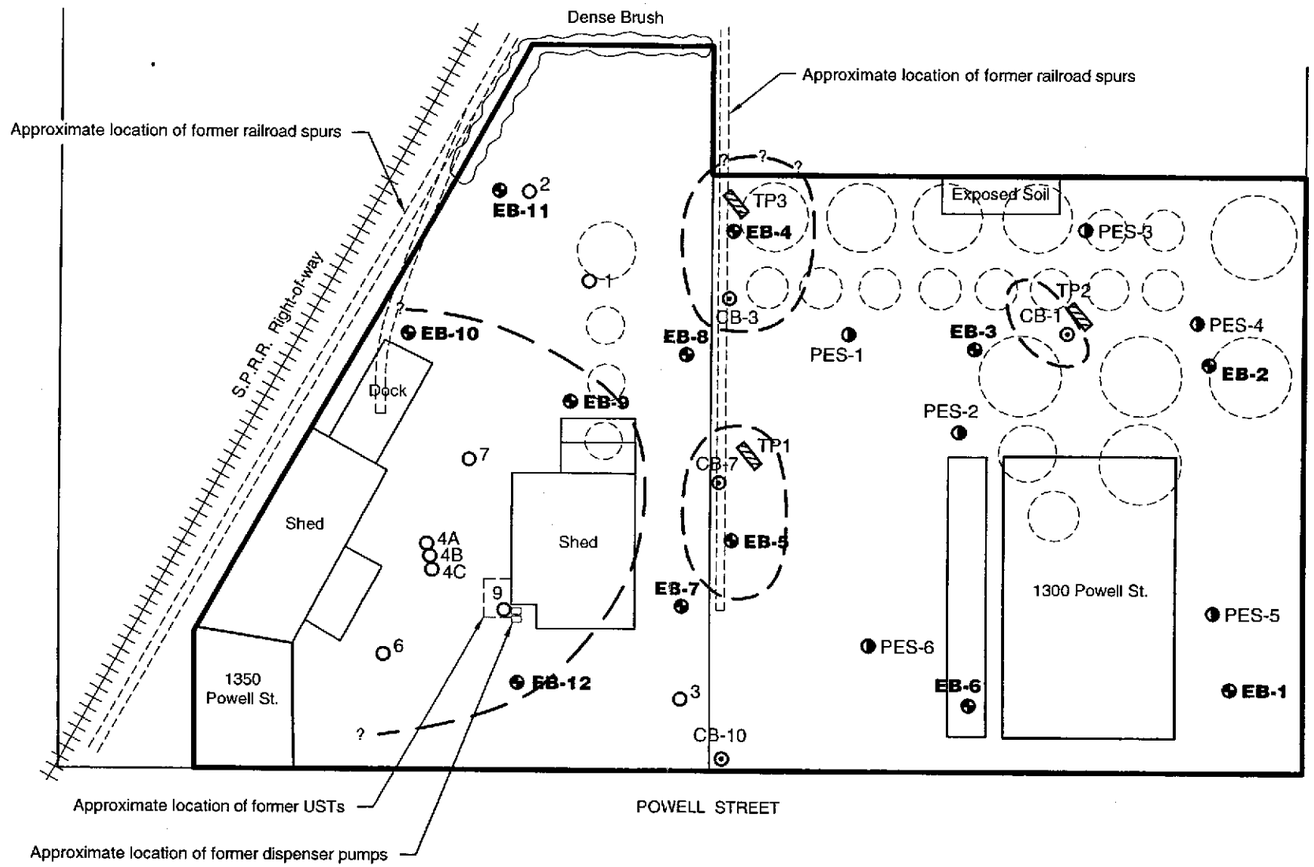
1300 AND 1350 POWELL STREET
Emeryville, California

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 7

1424-9B

5/02*EB



LEGEND

- (◯) - Approximate area of ground water >10,000 ppb total TPH (TPHg + TPHd + TPHmo)
- ◓ - Approximate location of exploratory boring (Lowney Associates, 2002)
- ○ - Approximate location of exploratory boring (R.T. Hicks, 2001)
- ▨ - Approximate location of exploratory test pit (R.T. Hicks, 2001)
- ◑ - Approximate location of exploratory boring (PES, 2000)
- ⊙ - Approximate location of exploratory boring (Cambria, 1997)
- ◌ - Approximate location of former ASTs

Approximate Scale:
0 50
Scale feet

Base by Lush Geosciences, dated 4/95.

TOTAL TPH >10,000 ppb IN GROUND WATER

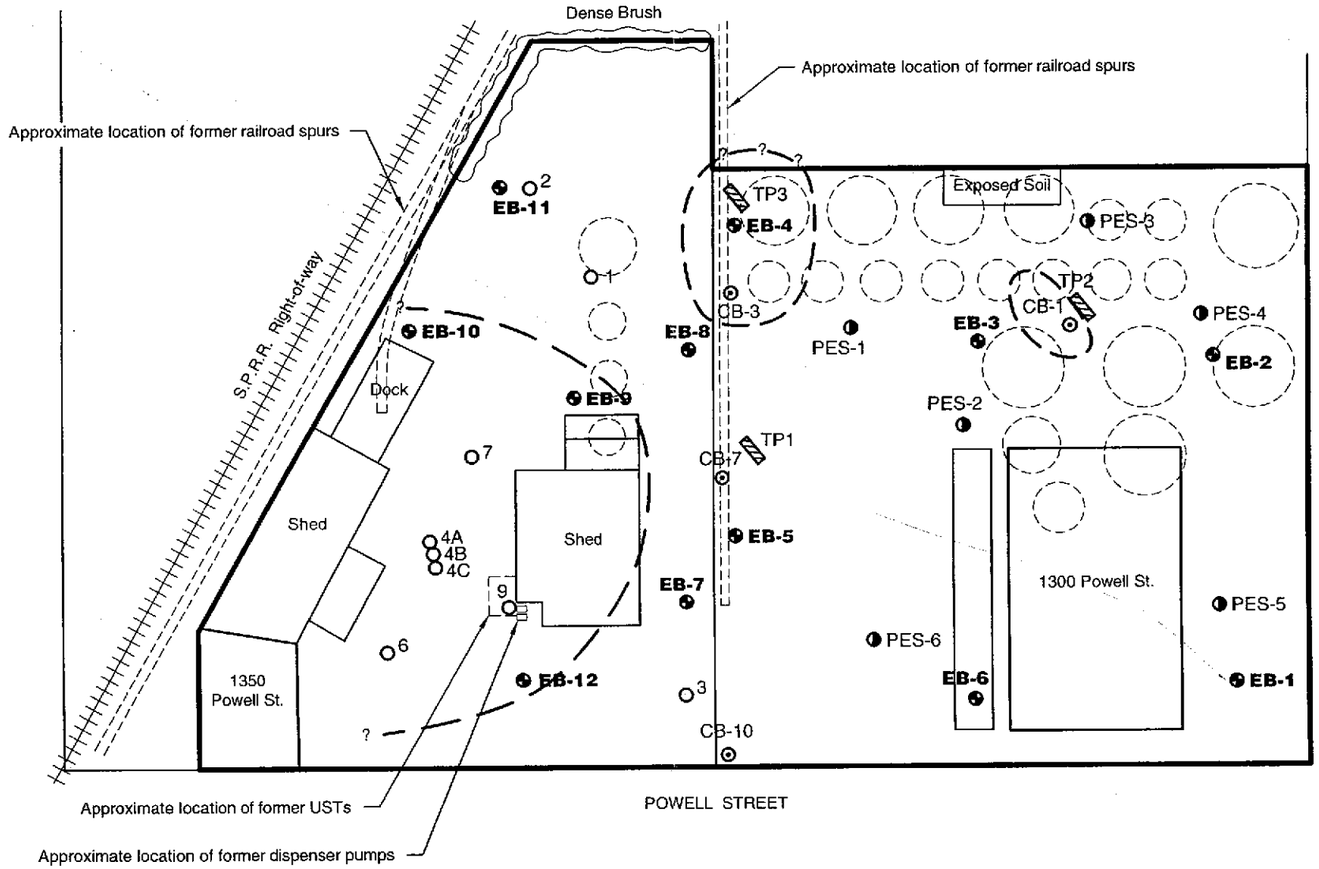
1300 AND 1350 POWELL STREET
Emeryville, California

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 8

1424-9B

5/02*EB



LEGEND

- Approximate area of ground water >10,000 ppb total TPH (TPHg + TPHd + TPHmo)
- Approximate location of exploratory boring (Lowney Associates, 2002)
- Approximate location of exploratory boring (R.T. Hicks, 2001)
- Approximate location of exploratory test pit (R.T. Hicks, 2001)
- Approximate location of exploratory boring (PES, 2000)
- Approximate location of exploratory boring (Cambria, 1997)
- Approximate location of former ASTs

Approximate Scale:
0 50
Scale feet

Base by Lush Geosciences, dated 4/95.

TOTAL TPH >10,000 ppb IN GROUND WATER

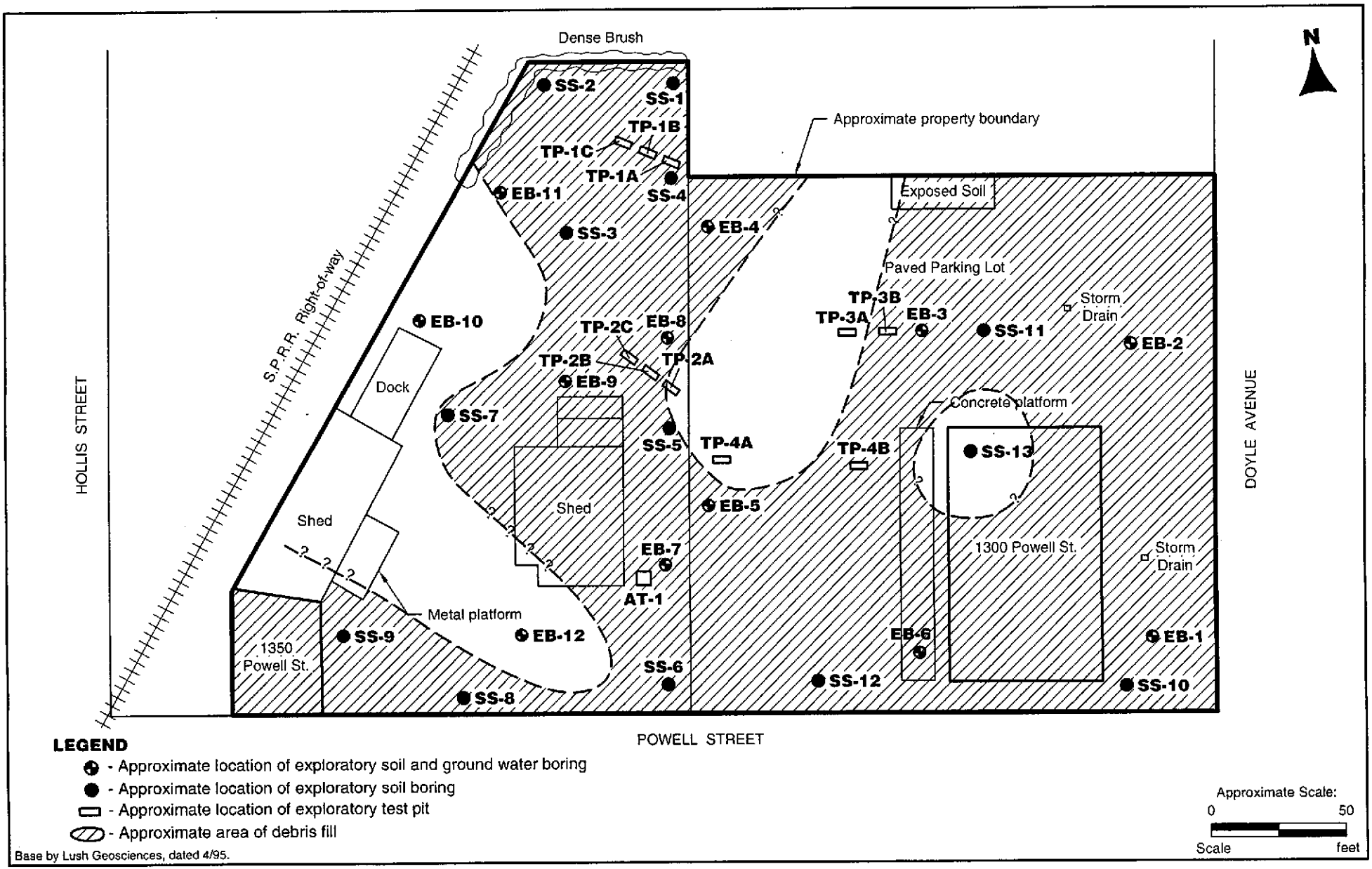
1300 AND 1350 POWELL STREET
Emeryville, California

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 8

1424-9B

5/02*EB



5/02*EB

SITE PLAN - APPROXIMATE AREA OF DEBRIS FILL

1300 AND 1350 POWELL STREET
Emeryville, California

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 9
1424-9B

APPENDIX A

SUBSURFACE INVESTIGATION, AND SOIL SAMPLING AND GROUND WATER SAMPLING PROTOCOL

The subsurface investigation was performed on March 4, 5, and 6, 2002, using a limited access hydraulic coring rig. Twenty-five soil borings were drilled to depths of approximately 4 to 24 feet. Soils encountered in the borings were logged using the Unified Soil Classification System (ASTM D-2487). The logs of the borings, as well as a key to the classification of soil (Figure A-1), are included as part of Appendix B.

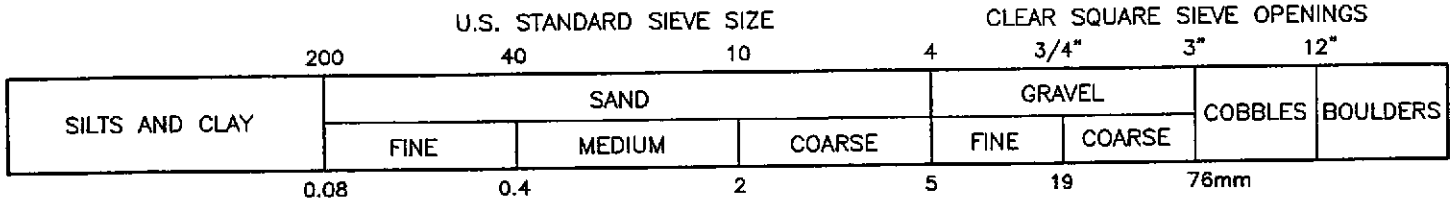
Soil samples for laboratory analysis were collected in acetate or brass liners, the ends covered in aluminum foil, taped, then labeled with a unique identification number, placed in an ice-chilled cooler, and transported to a state-certified analytical laboratory with chain of custody documentation. Soil vapors from each sample also were monitored with an OVM by first placing the soil in a Ziplock™ bag for several minutes. The OVM probe was then used to pierce the bag and record the organic vapor levels present.

Borings EB-1 through EB-12 were converted into "temporary" wells with the installation of 1-inch I.D. flush-threaded, Schedule 40 PVC casing. The casing in the lower portion of the well had 0.02-inch factory machined slots. Ground water grab samples were collected from the temporary wells with a Teflon bailer. Samples were collected in appropriate sampled bottles, labeled, and immediately placed into an ice-chilled chest for delivery to a state-certified analytical laboratory for analysis.

All drilling and sampling equipment was cleaned in a solution of laboratory grade detergent and distilled water or steam-cleaned before use at each sampling point.

PRIMARY DIVISIONS			SOIL TYPE		SECONDARY DIVISIONS
COARSE GRAINED SOILS (MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE)	GRAVELS (MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE)	CLEAN GRAVELS (Less than 5% Fines)	GW		Well graded gravels, gravel–sand mixtures, little or no fines
			GP		Poorly graded gravels or gravel–sand mixtures, little or no fines
		GRAVEL WITH FINES	GM		Silty gravels, gravel–sand–silt mixtures, plastic fines
			GC		Clayey gravels, gravel–sand–clay mixtures, plastic fines
	SANDS (MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE)	CLEAN SANDS (Less than 5% Fines)	SW		Well graded sands, gravelly sands, little or no fines
			SP		Poorly graded sands or gravelly sands, little or no fines
		SANDS WITH FINES	SM		Silty sands, sand–silt–mixtures, non–plastic fines
			SC		Clayey sands, sand–clay mixtures, plastic fines
FINE GRAINED SOILS (MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE)	SILTS AND CLAYS (LIQUID LIMIT IS LESS THAN 50 %)		ML		Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
			CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL		Organic silts and organic silty clays of low plasticity
	SILTS AND CLAYS (LIQUID LIMIT IS GREATER THAN 50 %)		MH		Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
			CH		Inorganic clays of high plasticity, fat clays
			OH		Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS			PT		Peat and other highly organic soils

DEFINITION OF TERMS



GRAIN SIZES

SAMPLERS

SAND AND GRAVEL	BLOWS/FOOT*
VERY LOOSE	0–4
LOOSE	4–10
MEDIUM DENSE	10–30
DENSE	30–50
VERY DENSE	OVER 50

RELATIVE DENSITY

SILTS AND CLAYS	STRENGTH+	BLOWS/FOOT*
VERY SOFT	0–1/4	0–2
SOFT	1/4–1/2	2–4
MEDIUM STIFF	1/2–1	4–8
STIFF	1–2	8–16
VERY STIFF	2–4	16–32
HARD	OVER 4	OVER 32

CONSISTENCY

*Number of blows of 140 pound hammer falling 30 inches to drive a 2–inch O.D. (1–3/8 inch I.D.) split spoon (ASTM D–1586).
+Unconfined compressive strength in tons/sq.ft. as determined by laboratory testing or approximated by the standard penetration test (ASTM D–1586), pocket penetrometer, torvane, or visual observation.

KEY TO EXPLORATORY BORING LOGS

Unified Soil Classification System (ASTM D–2487)

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FIGURE A–1

EXPLORATORY BORING: EB-1

Sheet 1 of 1

DRILL RIG: VIRONEX	PROJECT NO: 1424-9B
BORING TYPE: DIRECT PUSH	PROJECT: 1300 AND 1350 POWELL STREET
LOGGED BY: CM	LOCATION: EMERYVILLE, CA
START DATE: 3-4-02 FINISH DATE: 3-4-02	COMPLETION DEPTH: 24.0 FT.

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ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PID (ppm)
	0	SURFACE ELEVATION:		
		Asphalt		
		CLAYEY GRAVEL (GC) [FILL] stiff, damp, gravel and sand with debris (brick, concrete) in a dark clay matrix	GC	0.0
	5			0.0
		CLAY (CL) stiff, damp, brown and orange with gray mottling	CL	2.5
		CLAY (CL) stiff, gray-green with brown mottling, abundant rock fragments, minor sand (<5%)	CL	3.7
	10	**SILTY SAND (SM)** medium dense, moist, 25-30% silt, fine grained sand, poorly graded	SM	
		FAT CLAY (CH) soft, moist, light gray brown	CH	0.0
	15	**SILTY SAND (SM)** medium dense, moist, orange brown, fine grained, minor rock fragments	SM	
		FAT CLAY (CH) soft, moist, brown, minor sand (<5%), rock fragments, minor orange mottles	CH	3.9
	20	**SILTY CLAY (CL)** firm, moist, brown with green and gray mottling	CL	1.9
▽		**SILTY SAND (SM)** medium dense, wet, brown, approximately 25% silt, fine-grained sand, poorly graded	SM	
		SILTY CLAY (CL) firm, moist, brown with green and gray mottling	CL	2.2
	25	Bottom of Boring at 24 feet		
	30			

DRILL RATE (FT/MIN.) | SAMPLER | MOISTURE CONTENT (%) | DRY DENSITY (PCF)

Undrained Shear Strength (ksf)
○ Pocket Penetrometer
△ Torvane
● Unconfined Compression
▲ U-U Triaxial Compression
1.0 2.0 3.0 4.0

GROUND WATER OBSERVATIONS:

▽: FREE GROUND WATER MEASURED DURING DRILLING AT 22.5 FEET

LA CORP GDT 4/24/02 OAK* EB

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EXPLORATORY BORING: EB-2

DRILL RIG: VIRONEX
BORING TYPE: DIRECT PUSH
LOGGED BY: CM
START DATE: 3-4-02 FINISH DATE: 3-4-02

PROJECT NO: 1424-9B
PROJECT: 1300 AND 1350 POWELL STREET
LOCATION: EMERYVILLE, CA
COMPLETION DEPTH: 12.0 FT.

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ELEVATION (FT)	DEPTH (FT)	SOIL LEGEND	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	DRILL RATE (FT/MIN.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PID (ppm)
	0		SURFACE ELEVATION:						
			Asphalt						
			Baserock						
			SILTY CLAY (CL) [FILL] black, moist, minor debris	CL		X			1.1
			CLAYEY GRAVEL (GC) [FILL] medium dense to loose, moist, debris (brick, concrete)	GC		X			0.0
	5								
			SILTY CLAY (CL) stiff, wet, gray brown, approximately 10% fine-grained sand	CL		X			1.1
	10		increase in angular rock fragments and sand			X			2.6
			Bottom of Boring at 12 feet						
	15								
	20								
	25								
	30								

Undrained Shear Strength (ksf)
○ Pocket Penetrometer
△ Torvane
● Unconfined Compression
▲ U-U Triaxial Compression
1.0 2.0 3.0 4.0

GROUND WATER OBSERVATIONS:
▽: FREE GROUND WATER MEASURED DURING DRILLING AT 9.0 FEET
▼: FREE GROUND WATER MEASURED FOLLOWING DRILLING AT 6.5 FEET

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EXPLORATORY BORING: EB-3

Sheet 1 of 1

DRILL RIG: VIRONEX
BORING TYPE: DIRECT PUSH
LOGGED BY: CM
START DATE: 3-4-02 FINISH DATE: 3-4-02

PROJECT NO: 1424-9B
PROJECT: 1300 AND 1350 POWELL STREET
LOCATION: EMERYVILLE, CA
COMPLETION DEPTH: 20.0 FT.

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ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PID (ppm)
		SURFACE ELEVATION:		
	0	4 inches asphalt 14 inches baserock		
		SILTY CLAY (CL) [FILL] black, with minor debris, mainly red brick fragments, moderate petroleum odor	CL	8.3
	5	**SILTY CLAY (CL)** stiff, moist, green with orange mottling	CL	3.1
		SILTY CLAY (CL) stiff, moist, gray with orange mottling sandy, moderate petroleum odor	CL	13.9
	10	**CLAYEY GRAVEL WITH SAND (GC)** dense, moist, well rounded and angular rock fragments in an orange and gray matrix	GC	3.4
		SILTY CLAY (CL) soft to medium stiff, moist, light brown with gray mottling, minor sandy	CL	
	15	**SILTY SAND (SM)** medium dense, moist to wet, brown, poorly graded, fine grained	SM CL	2.4
		SILTY CLAY (CL) soft to firm, moist, light brown with gray mottling, minor sand	SM CL	
		SILTY SAND (SM) medium dense, moist to wet, brown, fine grained	SM CL	
	20	**SILTY CLAY (CL)** soft to firm, moist, light brown with gray mottling, minor sand		
		SILTY SAND (SM) medium dense, moist to wet, brown, fine grained		
		SILTY CLAY (CL) stiff, wet, brown with green and gray mottling		
		Bottom of Boring at 20 feet		
	25			
	30			

DRILL RATE (FT/MIN.) | SAMPLER | MOISTURE CONTENT (%) | DRY DENSITY (PCF)

Undrained Shear Strength (ksf)
○ Pocket Penetrometer
△ Torvane
● Unconfined Compression
▲ U-U Triaxial Compression
1.0 2.0 3.0 4.0

GROUND WATER OBSERVATIONS:
▽: FREE GROUND WATER MEASURED DURING DRILLING AT 16.0 FEET
▼: FREE GROUND WATER MEASURED FOLLOWING DRILLING AT 14.0 FEET

LA CORP.GDT 4/24/02 OAK* EB

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EXPLORATORY BORING: EB-4

DRILL RIG: VIRONEX
BORING TYPE: DIRECT PUSH
LOGGED BY: CM
START DATE: 3-4-02 FINISH DATE: 3-4-02

PROJECT NO: 1424-9B
PROJECT: 1300 AND 1350 POWELL STREET
LOCATION: EMERYVILLE, CA
COMPLETION DEPTH: 12.0 FT.

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ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PID (ppm)
		SURFACE ELEVATION:		
	0	Asphalt Baserock		
		GRAVELLY CLAY (GC) [FILL] loose, dark gray, angular up to 2" dia. in dark brown silty clay, minor debris (brick and concrete)	GC	
	5	**CLAY (CL)** stiff, moist, black, minor rock fragments, some orange mottles	CL	4.2
		SILTY CLAY (CL) stiff, wet, green-gray, some orange mottles, rock fragments	CL	8.3
	10	**SILTY CLAY WITH GRAVEL (CL)** stiff, wet, mottled clay, angular to rounded rock fragments	CL	3.0 7.3
		Bottom of Boring at 12 feet		
	15			
	20			
	25			
	30			

DRILL RATE (FT/MIN.) | SAMPLER | MOISTURE CONTENT (%) | DRY DENSITY (PCF)

Undrained Shear Strength (ksf)
○ Pocket Penetrometer
△ Torvane
● Unconfined Compression
▲ U-U Triaxial Compression
1.0 2.0 3.0 4.0

GROUND WATER OBSERVATIONS:
▽: FREE GROUND WATER MEASURED DURING DRILLING AT 8.0 FEET

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EXPLORATORY BORING: EB-5

DRILL RIG: VIRONEX
BORING TYPE: DIRECT PUSH
LOGGED BY: CM
START DATE: 3-4-02 FINISH DATE: 3-4-02

PROJECT NO: 1424-9B
PROJECT: 1300 AND 1350 POWELL STREET
LOCATION: EMERYVILLE, CA
COMPLETION DEPTH: 12.0 FT.

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ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	SAMPLER	PID (ppm)
		SURFACE ELEVATION:			
	0	Asphalt			
		SILTY CLAYEY GRAVEL (GC) [FILL] debris (brick fragments, concrete)	GC		
		GRAVEL (GW) wet, well graded, minor fines	GW	☒	3.5
	5	**GRAVELLY CLAY (GC)** wet, 15-20% rounded clasts in lean clay (matrix), debris, moderate petroleum odor, rock fragments decreasing with depth	GC	☒	55.9
		SILTY SAND (SM) medium dense, wet, green, fine grained, poorly graded, ~25-30% silt, moderate petroleum odor	SM	☒	149
	10	**SILTY CLAY (CL)** soft to stiff, wet, brown with green and gray mottling, minor rock fragments	CL	☒	13.9
				☒	8.1
		Bottom of Boring at 12 feet			
	15				
	20				
	25				
	30				

Undrained Shear Strength (ksf)
○ Pocket Penetrometer
△ Torvane
● Unconfined Compression
▲ U-U Triaxial Compression
1.0 2.0 3.0 4.0

GROUND WATER OBSERVATIONS:
▽: FREE GROUND WATER MEASURED DURING DRILLING AT 7.5 FEET
▼: FREE GROUND WATER MEASURED FOLLOWING DRILLING AT 3.5 FEET

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EXPLORATORY BORING: EB-6

DRILL RIG: VIRONEX
BORING TYPE: DIRECT PUSH
LOGGED BY: CM
START DATE: 3-4-02 FINISH DATE: 3-4-02

PROJECT NO: 1424-9B
PROJECT: 1300 AND 1350 POWELL STREET
LOCATION: EMERYVILLE, CA
COMPLETION DEPTH: 12.0 FT.

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ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PID (ppm)
	0	SURFACE ELEVATION:		
		7 inch concrete pad		
		Baserock with sandy clay		
		GRAVEL (GW) [FILL] gray, rounded gravel	GW	
		SILTY CLAY (CL) [FILL] minor gravel and debris (brick, concrete)	CL	2.9
	5	**GRAVELLY CLAY WITH SAND (GC) [FILL]** loose to medium dense, damp, black with orange and green mottling, some Mn staining, iron-oxide spots	GC	2.3
		SILT (ML) wet, stiff, <15% fine-grained sand, some silty clay intervals, orange iron-oxide and black Mn spots	ML	1.8
	10			4.1
		Bottom of Boring at 12 feet		
	15			
	20			
	25			
	30			

DRILL RATE (FT/MIN.) | SAMPLER | MOISTURE CONTENT (%) | DRY DENSITY (PCF)

Undrained Shear Strength (ksf)
○ Pocket Penetrometer
△ Torvane
● Unconfined Compression
▲ U-U Triaxial Compression
1.0 2.0 3.0 4.0

GROUND WATER OBSERVATIONS:
▽: FREE GROUND WATER MEASURED DURING DRILLING AT 9.0 FEET
▼: FREE GROUND WATER MEASURED FOLLOWING DRILLING AT 5.0 FEET

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EXPLORATORY BORING: EB-7

Sheet 1 of 1

DRILL RIG: VIRONEX	PROJECT NO: 1424-9B
BORING TYPE: DIRECT PUSH	PROJECT: 1300 AND 1350 POWELL STREET
LOGGED BY: CM	LOCATION: EMERYVILLE, CA
START DATE: 3-4-02 FINISH DATE: 3-4-02	COMPLETION DEPTH: 20.0 FT.

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ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	DRILL RATE (FT/MIN.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PID (ppm)
		SURFACE ELEVATION:						
	0	Baserock [FILL]						
		CLAYEY GRAVEL (GC) [FILL] brick debris	GC					
		GRAVEL [FILL] light gray, rounded clasts, minor sand (<5%)						
		CLAY (CL) soft, moist, black, minor debris (brick, rock fragments)	CL		☒			15.1
	5	**SILTY CLAY (CL)** medium stiff, moist, gray with orange mottling increasing petroleum odor	CL		☒			37.1
		SANDY SILT (ML) medium stiff, moist, green-gray, fine grained sand, strong petroleum odor	ML		☒			94.6
		SILTY CLAY (CL) medium stiff, moist, gray, with orange mottling strong petroleum odor	CL		☒			147
	10	**GRAVELLY CLAY (GC)** moist, gray with orange and green mottling, angular and rounded gravel	GC		☒			56.3
		SILTY CLAY (CL) stiff, moist, gray-green, some rock fragments, minor sand	CL		☒			48.2
	15	**GRAVELLY CLAY (GC)** moist, gray, orange green mottled, angular and rounded gravel, moderate petroleum odor	GC					
		SILTY CLAY (CL) stiff, moist, gray-green, some rock fragments, minor sand	CL					
▽		**WELL GRADED SAND WITH GRAVEL (SW)** medium dense, wet, brown, ~15% fines, 20% gravel	SW		☒			3.1
	20	Bottom of Boring at 20 feet						
	25							
	30							

Undrained Shear Strength (ksf)
○ Pocket Penetrometer
△ Torvane
● Unconfined Compression
▲ U-U Triaxial Compression
1.0 2.0 3.0 4.0

GROUND WATER OBSERVATIONS:
▽: FREE GROUND WATER MEASURED DURING DRILLING AT 18.0 FEET

LA_CORP.GDT 4/24/02 OAK* EB

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EXPLORATORY BORING: EB-8

Sheet 1 of 1

DRILL RIG: VIRONEX	PROJECT NO: 1424-9B
BORING TYPE: DIRECT PUSH	PROJECT: 1300 AND 1350 POWELL STREET
LOGGED BY: CM	LOCATION: EMERYVILLE, CA
START DATE: 3-4-02 FINISH DATE: 3-4-02	COMPLETION DEPTH: 24.0 FT.

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ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	DRILL RATE (FT/MIN.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PID (ppm)
	0	SURFACE ELEVATION:						
		6 inches baserock						
		CLAYEY GRAVEL (GC) [FILL] gravel with dark brown silty clay, minor debris (brick, wood)	GC					
		WELL-GRADED GRAVEL (GW) clean, rounded gravel	GW					
		CLAY (CL/CH) stiff, moist, green-gray, rock fragments, minor sand, moderate to high plasticity	CL/CH		☒			11.5
	5				☒			31.1
		very stiff			☒			12.2
	10							
		SILTY CLAY (CL) stiff, moist, brown	CL					
		CLAYEY GRAVEL (GC) dense, damp, orange, brown and green, large rock fragments	GC		☒			5.1
		SILT WITH SAND (ML) stiff, damp, brown, ~25% fine grained sand	ML					
	15	**POORLY GRADED SAND (SP)** medium dense, moist, brown with gray and green mottling, fine-grained sand, minor rock fragments	SP		☒			1.7
		SILTY CLAY (CL) stiff, moist, brown with gray-green mottling	CL		☒			0.0
	20	**SILT WITH SAND (ML)** stiff, wet, brown with gray-green mottling, ~25% fine grained sand	ML					
		POORLY GRADED SAND (SP) medium dense, wet, brown, ~5% fines, fine-grained sand	SP					
	25	Bottom of Boring at 24 feet						
	30							

Undrained Shear Strength (ksf)
○ Pocket Penetrometer
△ Torvane
● Unconfined Compression
▲ U-U Triaxial Compression
1.0 2.0 3.0 4.0

GROUND WATER OBSERVATIONS:

▽: FREE GROUND WATER MEASURED DURING DRILLING AT 19.0 FEET

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EXPLORATORY BORING: EB-9

Sheet 1 of 1

DRILL RIG: VIRONEX	PROJECT NO: 1424-9B
BORING TYPE: DIRECT PUSH	PROJECT: 1300 AND 1350 POWELL STREET
LOGGED BY: CM	LOCATION: EMERYVILLE, CA
START DATE: 3-5-02 FINISH DATE: 3-5-02	COMPLETION DEPTH: 24.0 FT.

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ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	DRILL RATE (FT/MIN.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PID (ppm)
	0	SURFACE ELEVATION:						
		6 inches baserock						
		GRAVELLY CLAY (GC) [FILL] loose, moist, some brick and wood debris	GC					
					☒			74.5
		CLAY (CL/CH) soft, wet, black, moderate to high plasticity, moderate petroleum odor	CL/CH					
	5	**GRAVELLY CLAY (CL)** dense, moist, gray-green with brown and orange mottling, silty clay, strong petroleum odor	CL		☒			84.2
					☒			105
					☒			78.5
	10	**SILTY CLAY (CL)** stiff, damp, green-gray	CL					
		SANDY SILT (ML) medium stiff, moist, gray greenish, ~15% clay, fine grained sand, low plasticity	ML		☒			41.9
		SILTY CLAY (CL) very soft, moist, green, moderate petroleum odor	CL		☒			84.4
	15	**SANDY SILT (ML)** stiff, moist, orange brown, minor rock fragments	ML					
		SILTY CLAY (CL) stiff, moist, orange-brown	CL		☒			6.4
▽		**SANDY SILT (ML)** very soft, wet, orange brown						
	20	petroleum sheen on water	ML					
	25	Bottom of Boring at 24 feet						
	30							

Undrained Shear Strength (ksf)
○ Pocket Penetrometer
△ Torvane
● Unconfined Compression
▲ U-U Triaxial Compression
1.0 2.0 3.0 4.0

GROUND WATER OBSERVATIONS:
▽: FREE GROUND WATER MEASURED DURING DRILLING AT 18.5 FEET

LA CORP.GDT 4/24/02 OAK* EB

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EXPLORATORY BORING: EB-10

DRILL RIG: VIRONEX
BORING TYPE: DIRECT PUSH
LOGGED BY: CM
START DATE: 3-5-02 FINISH DATE: 3-5-02

PROJECT NO: 1424-9B
PROJECT: 1300 AND 1350 POWELL STREET
LOCATION: EMERYVILLE, CA
COMPLETION DEPTH: 12.0 FT.

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ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PID (ppm)
		SURFACE ELEVATION:		
	0	6-7 inches concrete Baserock		
		CLAY (CL/CH) very soft, wet, black, moderate to high plasticity, slight petroleum odor	CL/CH	21.3
	5	**SILTY CLAY (CL)** stiff, damp, green, minor sand, rock fragments	CL	84.2
	10	strong petroleum odor floating product on ground water, some rock fragments		6.7
		SANDY SILT (ML) stiff, wet, brown, minor green-gray mottling	ML	58.0
		Bottom of Boring at 12 feet		
	15			
	20			
	25			
	30			

DRILL RATE (FT/MIN.) | SAMPLER | MOISTURE CONTENT (%) | DRY DENSITY (PCF)

Undrained Shear Strength (ksf)
○ Pocket Penetrometer
△ Torvane
● Unconfined Compression
▲ U-U Triaxial Compression
1.0 2.0 3.0 4.0

GROUND WATER OBSERVATIONS:
▽: FREE GROUND WATER MEASURED DURING DRILLING AT 9.0 FEET

LA CORP.GDT 4/24/02 OAK' EB

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

EXPLORATORY BORING: EB-11

Sheet 1 of 1

DRILL RIG: VIRONEX	PROJECT NO: 1424-9B
BORING TYPE: DIRECT PUSH	PROJECT: 1300 AND 1350 POWELL STREET
LOGGED BY: CM	LOCATION: EMERYVILLE, CA
START DATE: 3-5-02 FINISH DATE: 3-5-02	COMPLETION DEPTH: 18.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	PID (ppm)
	0	SURFACE ELEVATION:		
		Baserock/gravel		
		CLAYEY GRAVEL (GC) [FILL] gravel with silty sandy clay, minor debris	GC	
		SILTY CLAY (CL) dense, damp, black with orange mottling, rock fragments, iron-oxide stains	CL	13.8
	5	**SILTY CLAY (CL)** soft, moist, black with green mottling moderate petroleum odor	CL	100
		GRAVELLY CLAY (CL) moist, gray-green clay, angular to rounded gravel, minor sand	GC	85.6
	10	**CLAYEY GRAVEL (GC)** medium dense, moist, green, brown, and black with orange spot	GC	
▽		**CLAYEY SAND WITH GRAVEL (SC)** dense, moist to wet, well graded	SC	7.7
		CLAYEY GRAVEL (GC) medium dense, moist, green, brown, and black with orange spots	GC	8.4
	15	**SILTY CLAY (CL)** stiff, wet, brown, minor rock gravel	CL	
		Bottom of Boring at 18 feet		
	20			
	25			
	30			

Undrained Shear Strength (ksf)

○ Pocket Penetrometer

△ Torvane

● Unconfined Compression

▲ U-U Triaxial Compression

1.0 2.0 3.0 4.0

SAMPLER | MOISTURE CONTENT (%) | DRY DENSITY (PCF) | DRILL RATE (FT/MIN.)

GROUND WATER OBSERVATIONS:

▽: FREE GROUND WATER MEASURED DURING DRILLING AT 12.5 FEET

LA CORP GDT 4/24/02 OAK* EB

LOWNEY ASSOCIATES

Environmental/Geotechnical/Engineering Services

EXPLORATORY BORING: EB-12

Sheet 1 of 1

DRILL RIG: VIRONEX	PROJECT NO: 1424-9B
BORING TYPE: DIRECT PUSH	PROJECT: 1300 AND 1350 POWELL STREET
LOGGED BY: CM	LOCATION: EMERYVILLE, CA
START DATE: 3-5-02 FINISH DATE: 3-5-02	COMPLETION DEPTH: 12.0 FT.

This log is a part of a report by Lowney Associates, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

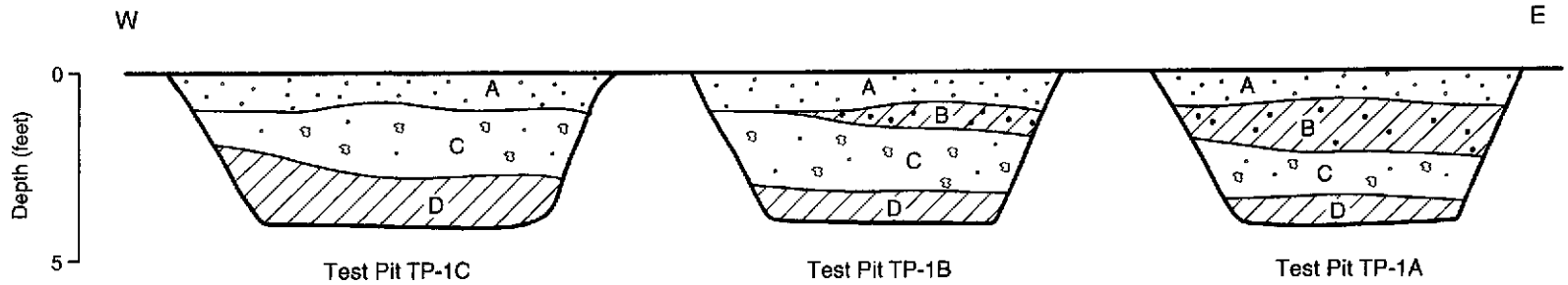
ELEVATION (FT)	DEPTH (FT)	MATERIAL DESCRIPTION AND REMARKS	SOIL TYPE	DRILL RATE (FT/MIN.)	SAMPLER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PID (ppm)
		SURFACE ELEVATION:						
	0	4 inches asphalt						
		8 inches baserock						
		CLAY (CL) stiff, black with green mottling, gravel fragments	CL					
		strong petroleum odor			X			348
		SILTY CLAY (CL/CH) soft to stiff, damp, green-gray, minor rock fragments, moderate to high plasticity	CL/CH					
	5	color change to brown						
		strong petroleum odor			X			424
		GRAVELLY CLAY WITH SAND (CL) stiff, moist, green with orange mottling, approximately 25% gravel, approximately 15% sand	SM					
		SILTY SAND (SM) green, gray, well graded, approximately 25% silt fines, minor gravel	CL		X			298
	10	**GRAVELLY CLAY WITH SAND (CL)** wet, gray, strong petroleum odor, floating product on ground water	ML					
					X			24.2
		SANDY SILT (ML) stiff, brown with gray and orange mottling, fine grained, approximately 25% sand						
		Bottom of Boring at 12 feet						
	15							
	20							
	25							
	30							

Undrained Shear Strength (ksf)
○ Pocket Penetrometer
△ Torvane
● Unconfined Compression
▲ U-U Triaxial Compression
1.0 2.0 3.0 4.0

GROUND WATER OBSERVATIONS:
▽: FREE GROUND WATER MEASURED DURING DRILLING AT 8.5 FEET

L:\A_CORP.GDT 4/24/02 OAK* EB

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services



A: Baserock/Surface Gravel; gray-brown, moist, loose, minor debris (plastic, nails) (Fill)

B: Gravelly Clay (GC); gravel, and dark brown silty clay, moist, soft

C: Fill/Debris; large blocks of concrete, brick, asphalt, some wood, loose, wet (water seeped into test pit)

D: Clay (CH); black, moist, stiff

Scale: 1"=5'

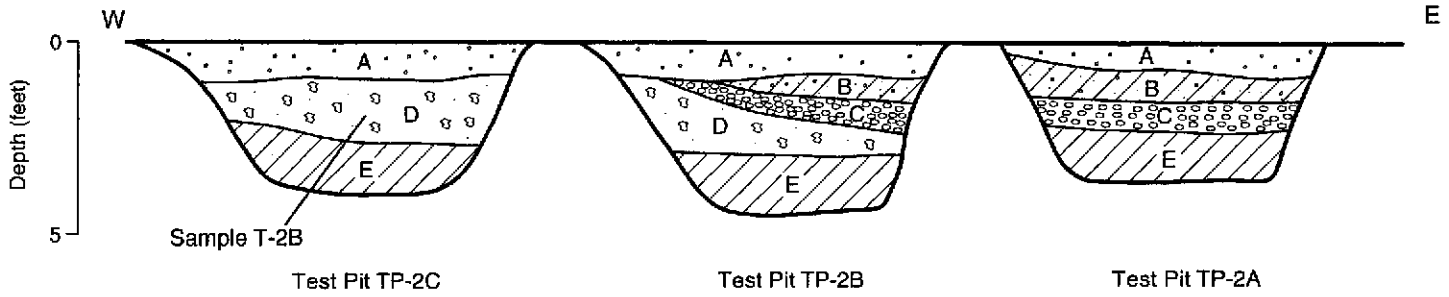
4/02 'EB

EXPLORATORY TEST PIT TP-1

1300 AND 1350 POWELL STREET
Emeryville, California

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

TP-1
1424-9B



A: Baserock/Surface Gravel; gray, brown, angular to subrounded gravel, moist, loose, minor debris (Fill)

B: Gravelly Clay (GC); gravel and dark brown silty clay, moist, soft

C: Gravel (GP); poorly graded, gravel ~1-1½" dia., rounded, loose, gray, wet

D: Debris/Fill; large blocks of concrete, bricks, wood, metal, asphalt, loose, wet (water seeped into test pit)

E: Fat Clay (CH); native, black, moist, stiff

Scale: 1"=5'

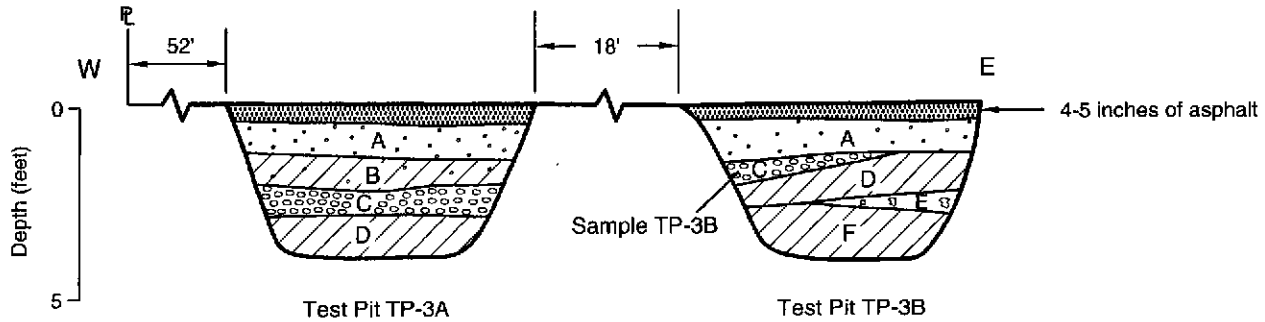
4/02*EB

EXPLORATORY TEST PIT TP-2

1300 AND 1350 POWELL STREET
Emeryville, California

LOVNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

TP-2
1424-9B



A: Baserock; light brown-yellow, subangular to angular 1/2" dia. gravel, approximately 25% coarse sand, dense

B: Gravelly Clay (GC); baserock, gravel, and dark brown silty clay, stiff, moist, minor debris (metal, nails)

C: Gravel (GP); loose, poorly graded gravels, rounded 1-1½" dia. gray, wet (water seeped into test pit)

D: Silty Clay to Fat Clay (CH/CL); black to dark brown, moist, stiff [Fill]

E: Debris, wood, metal, glass, concrete, brick

F: Silty Clay to Fat Clay (CH/CL); black to dark brown, moist, stiff, native

Scale: 1"=5'

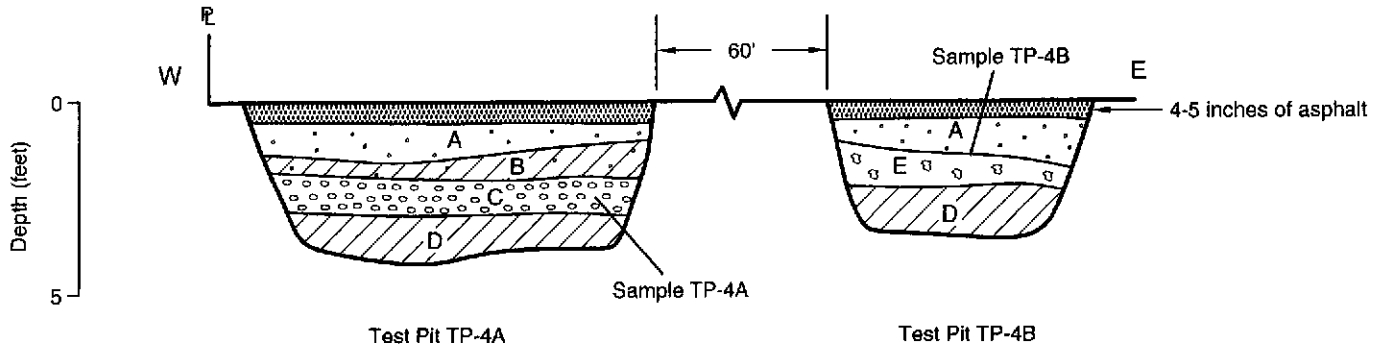
4/02*EB

EXPLORATORY TEST PIT TP-3

1300 AND 1350 POWELL STREET
Emeryville, California

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

TP-3
1424-9B



A: Baserock; light brown-yellow, subangular to angular 1/2" dia. gravel, approximately 25% coarse sand, medium dense

B: Gravelly Clay (GC); baserock, gravel, and dark brown silty clay, stiff, moist, minor debris (metal, nails)

C: Gravel (GP); loose, poorly graded gravels, rounded 1-1½" dia. gray, wet (water seeped into test pit)

D: Silty Clay to Fat Clay (CH/CL); black to dark brown, native, moist, stiff

E: Debris (wood, metal, glass, concrete, brick)

Scale: 1"=5'

4/02*EB

EXPLORATORY TEST PIT TP-4

1300 AND 1350 POWELL STREET
Emeryville, California

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

TP-4
1424-9B

Submission #: 2002-03-0479

Metals

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SS-1 @ 0-0.5`	Soil	03/06/2002 08:00	1

Submission #: 2002-03-0479

SEVERN TRENT SERVICES

Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B
7471A

Prep Method: 3050B
7471A

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1220 Quarry Lane
Pleasanton, CA 94566

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Fax 925 484 1096
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www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**SS-1 @ 0-0.5'**	Lab Sample ID:	2002-03-0479-001
Project:	1424-9B Powell St.	Received:	03/06/2002
		Extracted:	03/26/2002 05:33
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/26-01.15 2002/04/15-01.16
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Arsenic	ND	1.0	mg/Kg	1.00	03/26/2002 10:39	
Cadmium	2.6	0.50	mg/Kg	1.00	03/26/2002 10:39	
Lead	110	1.0	mg/Kg	1.00	03/26/2002 10:39	
Mercury	ND	0.050	mg/Kg	1.00	04/15/2002 13:43	

Submission #: 2002-03-0479

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CA DHS ELAP#1094

Metals

Batch QC report

Test Method: 6010B Prep Method: 3050B

Method Blank **Soil** **QC Batch # 2002/03/26-01.15**

MB: 2002/03/26-01.15-024 Date Extracted: 03/26/2002 05:33

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Arsenic	ND	1.0	mg/Kg	03/26/2002 08:36	
Cadmium	ND	0.50	mg/Kg	03/26/2002 08:36	
Lead	ND	1.0	mg/Kg	03/26/2002 08:36	

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CA DHS ELAP#1094

Metals

Batch QC report

Test Method: 7471A Prep Method: 7471A

Method Blank **Soil** **QC Batch # 2002/04/15-01.16**

MB: 2002/04/15-01.16-011 Date Extracted: 04/15/2002 07:44

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	04/15/2002 13:39	

Submission #: 2002-03-0479

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CA DHS ELAP#1094

Metals

Batch QC report

Test Method: 6010B Prep Method: 3050B

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/26-01.15**

LCS: 2002/03/26-01.15-025 Extracted: 03/26/2002 05:33 Analyzed: 03/26/2002 08:41

LCSD: 2002/03/26-01.15-026 Extracted: 03/26/2002 05:33 Analyzed: 03/26/2002 08:44

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Arsenic	105	103	100.0	100.0	105.0	103.0	1.9	80-120	20		
Cadmium	105	102	100.0	100.0	105.0	102.0	2.9	80-120	20		
Lead	105	102	100.0	100.0	105.0	102.0	2.9	80-120	20		

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www.chromalab.com

CA DHS ELAP#1094

Metals

Batch QC report

Test Method: 7471A Prep Method: 7471A

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/04/15-01.16**

LCS: 2002/04/15-01.16-012 Extracted: 04/15/2002 07:44 Analyzed: 04/15/2002 13:41

LCSD: 2002/04/15-01.16-013 Extracted: 04/15/2002 07:44 Analyzed: 04/15/2002 13:42

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Mercury	0.543	0.571	0.500	0.500	108.6	114.2	5.0	85-115	20		

Submission #: 2002-03-0479

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www.chromalab.com

CA DHS ELAP#1094

Metals

Batch QC Report

Test Method: 7471A Prep Method: 7471A

Matrix Spike (MS / MSD)	**Soil**		**QC Batch # 2002/04/15-01.16**
Sample ID: **SS-1 @ 0-0.5` >> MS**		Lab ID:	2002-03-0479-001
MS: 2002/04/15-01.16-015	Extracted: 04/15/2002 07:44	Analyzed:	04/15/2002 13:44
		Dilution:	1
MSD: 2002/04/15-01.16-016	Extracted: 04/15/2002 07:44	Analyzed:	04/15/2002 13:45
		Dilution:	1

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Mercury	0.591	0.574	ND	0.495	0.505	119.	113.7	4.9	85-115	20	mso	

Submission #: 2002-04-0037

SEVERN TRENT SERVICES

Total Lead

STL San Francisco
1220 Quarry Lane
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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SS-1@ 3.5-4.0	Soil	03/06/2002 08:00	1

Submission #: 2002-04-0037

SEVERN TRENT SERVICES

Total Lead

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 6010B
Prep Method: 3050B

STL San Francisco
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Pleasanton, CA 94566

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CA DHS ELAP#1094

Sample ID:	**SS-1@ 3.5-4.0**	Lab Sample ID:	2002-04-0037-001
Project:	1424-9B Powell St.	Received:	03/06/2002
		Extracted:	04/03/2002 14:34
Sampled:	03/06/2002 08:00	QC-Batch:	2002/04/03-08.15
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	4.3	1.0	mg/Kg	1.00	04/04/2002 10:06	

Submission #: 2002-04-0037

SEVERN TRENT SERVICES

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Pleasanton, CA 94566

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CA DHS ELAP#1094

Total Lead

Batch QC report

Test Method: 6010B Prep Method: 3050B

Method Blank **Soil** **QC Batch # 2002/04/03-08.15**

MB: 2002/04/03-08.15-028 Date Extracted: 04/03/2002 14:34

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	04/04/2002 09:54	

Submission #: 2002-04-0037

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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CA DHS ELAP#1094

Total Lead

Batch QC report

Test Method: 6010B Prep Method: 3050B

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/04/03-08.15**

LCS: 2002/04/03-08.15-029 Extracted: 04/03/2002 14:34 Analyzed: 04/04/2002 09:59

LCSD: 2002/04/03-08.15-030 Extracted: 04/03/2002 14:34 Analyzed: 04/04/2002 10:02

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Lead	93.4	93.2	100.0	100.0	93.4	93.2	0.2	80-120	20		

Submission #: 2002-04-0037

Date: April 4, 2002

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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www.chromalab.com
CA DHS ELAP#1094

Lowney & Associates Oakland
167 Filbert Street
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-9B
Powell St.

Dear Mr. Arniola,

Attached is our report for your samples received on Wednesday March 6, 2002
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after April 20, 2002 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@chromalab.com

Sincerely,

Vincent Vancil
Project Manager

Submission #: 2002-03-0218

Date: March 20, 2002

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com
CA DHS ELAP#1094

Lowney & Associates Oakland
167 Filbert Street
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-9A
Powell Str.

Dear Mr. Arniola,

Attached is our report for your samples received on Monday March 11, 2002
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after April 25, 2002 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@chromalab.com

Sincerely,

Vincent Vancil
Project Manager

RECEIVED
MAR 2 8 2002
LOWNEY, OK

Submission #: 2002-03-0218

SEVERN TRENT SERVICES

Polynuclear Aromatic Hydrocarbons (PNA)

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9A	Project: Powell Str.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
TP-2B	Soil	03/08/2002	3
TP-4B	Soil	03/08/2002	8

Submission #: 2002-03-0218

SEVERN TRENT SERVICES

Polynuclear Aromatic Hydrocarbons (PNA)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8310
Prep Method: 3550/8310

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID: **TP-2B**
Project: 1424-9A Powell Str.
Sampled: 03/08/2002
Matrix: Soil

Lab Sample ID: 2002-03-0218-003
Received: 03/11/2002 16:44
Extracted: 03/13/2002 07:37
QC-Batch: 2002/03/13-01.18

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	250	150	ug/Kg	10.00	03/15/2002 00:17	
Acenaphthylene	ND	100	ug/Kg	10.00	03/15/2002 00:17	
Acenaphthene	ND	100	ug/Kg	10.00	03/15/2002 00:17	
Fluorene	ND	50	ug/Kg	10.00	03/15/2002 00:17	
Phenanthrene	880	50	ug/Kg	10.00	03/15/2002 00:17	
Anthracene	ND	50	ug/Kg	10.00	03/15/2002 00:17	
Fluoranthene	ND	50	ug/Kg	10.00	03/15/2002 00:17	
Pyrene	ND	50	ug/Kg	10.00	03/15/2002 00:17	
Benzo(a)anthracene	ND	50	ug/Kg	10.00	03/15/2002 00:17	
Chrysene	ND	50	ug/Kg	10.00	03/15/2002 00:17	
Benzo(b)fluoranthene	ND	50	ug/Kg	10.00	03/15/2002 00:17	
Benzo(k)fluoranthene	ND	50	ug/Kg	10.00	03/15/2002 00:17	
Benzo(a)pyrene	ND	50	ug/Kg	10.00	03/15/2002 00:17	
Dibenzo(a,h)anthracene	ND	100	ug/Kg	10.00	03/15/2002 00:17	
Benzo(g,h,i)perylene	ND	100	ug/Kg	10.00	03/15/2002 00:17	
Indeno(1,2,3-cd)pyrene	ND	100	ug/Kg	10.00	03/15/2002 00:17	
Surrogate(s)						
1-Methyl naphthalene	NA	50-150	%	10.00	03/15/2002 00:17	sd

Submission #: 2002-03-0218

SEVERN TRENT SERVICES

Polynuclear Aromatic Hydrocarbons (PNA)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8310
Prep Method: 3550/8310

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID: **TP-4B**
Project: 1424-9A Powell Str.
Sampled: 03/08/2002
Matrix: Soil

Lab Sample ID: 2002-03-0218-008
Received: 03/11/2002 16:44
Extracted: 03/13/2002 07:37
QC-Batch: 2002/03/13-01.18

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/15/2002 01:07	
Acenaphthylene	ND	10	ug/Kg	1.00	03/15/2002 01:07	
Acenaphthene	ND	10	ug/Kg	1.00	03/15/2002 01:07	
Fluorene	ND	5.0	ug/Kg	1.00	03/15/2002 01:07	
Phenanthrene	ND	5.0	ug/Kg	1.00	03/15/2002 01:07	
Anthracene	ND	5.0	ug/Kg	1.00	03/15/2002 01:07	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/15/2002 01:07	
Pyrene	ND	5.0	ug/Kg	1.00	03/15/2002 01:07	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/15/2002 01:07	
Chrysene	ND	5.0	ug/Kg	1.00	03/15/2002 01:07	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/15/2002 01:07	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/15/2002 01:07	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/15/2002 01:07	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/15/2002 01:07	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/15/2002 01:07	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/15/2002 01:07	
Surrogate(s)						
1-Methyl naphthalene	60.5	50-150	%	1.00	03/15/2002 01:07	

Submission #: 2002-03-0218

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CA DHS ELAP#1094

Polynuclear Aromatic Hydrocarbons (PNA)

Batch QC report

Test Method: 8310 Prep Method: 3550/8310

Method Blank	**Soil**	**QC Batch # 2002/03/13-01.18**
MB: 2002/03/13-01.18-001		Date Extracted: 03/13/2002 07:37

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Naphthalene	ND	15.0	ug/Kg	03/14/2002 17:43	
Acenaphthylene	ND	10	ug/Kg	03/14/2002 17:43	
Acenaphthene	ND	10	ug/Kg	03/14/2002 17:43	
Fluorene	ND	5.0	ug/Kg	03/14/2002 17:43	
Phenanthrene	ND	5.0	ug/Kg	03/14/2002 17:43	
Anthracene	ND	5.0	ug/Kg	03/14/2002 17:43	
Fluoranthene	ND	5.0	ug/Kg	03/14/2002 17:43	
Pyrene	ND	5.0	ug/Kg	03/14/2002 17:43	
Benzo(a)anthracene	ND	5.0	ug/Kg	03/14/2002 17:43	
Chrysene	ND	5.0	ug/Kg	03/14/2002 17:43	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	03/14/2002 17:43	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	03/14/2002 17:43	
Benzo(a)pyrene	ND	5.0	ug/Kg	03/14/2002 17:43	
Dibenzo(a,h)anthracene	ND	10.0	ug/Kg	03/14/2002 17:43	
Benzo(g,h,i)perylene	ND	10.0	ug/Kg	03/14/2002 17:43	
Indeno(1,2,3-cd)pyrene	ND	10.0	ug/Kg	03/14/2002 17:43	
Surrogate(s)					
1-Methyl naphthalene	82.5	50-150	%	03/14/2002 17:43	

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Polynuclear Aromatic Hydrocarbons (PNA)

Batch QC report

Test Method: 8310 Prep Method: 3550/8310

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/13-01.18**

LCS: 2002/03/13-01.18-002 Extracted: 03/13/2002 07:37 Analyzed: 03/14/2002 16:54

LCSD: 2002/03/13-01.18-003 Extracted: 03/13/2002 07:37 Analyzed: 03/14/2002 19:17

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Naphthalene	147	149	200	200	73.5	74.5	1.4	50-150	35		
Phenanthrene	197	192	200	200	98.5	96.0	2.6	50-150	35		
Pyrene	193	186	200	200	96.5	93.0	3.7	50-150	35		
Chrysene	192	194	200	200	96.0	97.0	1.0	50-150	35		
Benzo(a)pyrene	152	149	200	200	76.0	74.5	2.0	50-150	35		
Surrogate(s)											
1-Methyl naphthalene	10.9	9.63	15	15	72.9	64.2		50-150	0		

Submission #: 2002-03-0218

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Polynuclear Aromatic Hydrocarbons (PNA)

Legend & Notes

Test Method: 8310 Prep Method: 3550/8310

Analyte Flags

sd

Surrogate recovery not reportable due to required dilution.

Submission #: 2002-03-0218

CAM 17 Metals

Lowney & Associates Oakland
167 Filbert Street
Oakland, Ca 94607

Attn: Mark Arniola
Phone: (510) 267-1970 Fax: (510) 267-1972

1424-9A
Project: Powell Str.

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Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
TP-2B	Soil	03/08/2002	3
TP-4B	Soil	03/08/2002	8

Submission #: 2002-03-0218

CAM 17 Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 7471A
6010B

Prep Method: 3050B
7471A

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CA DHS ELAP#1094

Sample ID: **TP-2B**
Project: 1424-9A
Powell Str.

Sampled: 03/08/2002

Matrix: Soil

Lab Sample ID: 2002-03-0218-003
Received: 03/11/2002 16:44

Extracted: 03/14/2002 10:31
QC-Batch: 2002/03/14-02.16
2002/03/14-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	4.3	2.0	mg/Kg	1.00	03/15/2002 17:43	
Arsenic	9.0	1.0	mg/Kg	1.00	03/15/2002 17:43	
Barium	110	1.0	mg/Kg	1.00	03/15/2002 17:43	
Beryllium	ND	0.50	mg/Kg	1.00	03/15/2002 17:43	
Cadmium	2.1	0.50	mg/Kg	1.00	03/15/2002 17:43	
Chromium	13	1.0	mg/Kg	1.00	03/15/2002 17:43	
Cobalt	6.8	1.0	mg/Kg	1.00	03/15/2002 17:43	
Copper	33	1.0	mg/Kg	1.00	03/15/2002 17:43	
Lead	54	1.0	mg/Kg	1.00	03/15/2002 17:43	
Molybdenum	ND	1.0	mg/Kg	1.00	03/15/2002 17:43	
Nickel	14	1.0	mg/Kg	1.00	03/15/2002 17:43	
Selenium	ND	2.0	mg/Kg	1.00	03/15/2002 17:43	
Silver	ND	1.0	mg/Kg	1.00	03/15/2002 17:43	
Thallium	ND	1.0	mg/Kg	1.00	03/15/2002 17:43	
Vanadium	19	1.0	mg/Kg	1.00	03/15/2002 17:43	
Zinc	64	1.0	mg/Kg	1.00	03/15/2002 17:43	
Mercury	0.21	0.050	mg/Kg	1.00	03/14/2002 12:44	

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CAM 17 Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 7471A
6010B

Prep Method: 3050B
7471A

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CA DHS ELAP#1094

Sample ID: **TP-4B**
Project: 1424-9A
Powell Str.

Sampled: 03/08/2002

Matrix: Soil

Lab Sample ID: 2002-03-0218-008
Received: 03/11/2002 16:44

Extracted: 03/14/2002 10:31
QC-Batch: 2002/03/14-02.16
2002/03/14-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	1.00	03/15/2002 17:47	
Arsenic	9.4	1.0	mg/Kg	1.00	03/15/2002 17:47	
Barium	130	1.0	mg/Kg	1.00	03/15/2002 17:47	
Beryllium	ND	0.50	mg/Kg	1.00	03/15/2002 17:47	
Cadmium	3.0	0.50	mg/Kg	1.00	03/15/2002 17:47	
Chromium	31	1.0	mg/Kg	1.00	03/15/2002 17:47	
Cobalt	8.8	1.0	mg/Kg	1.00	03/15/2002 17:47	
Copper	99	1.0	mg/Kg	1.00	03/15/2002 17:47	
Lead	15	1.0	mg/Kg	1.00	03/15/2002 17:47	
Molybdenum	ND	1.0	mg/Kg	1.00	03/15/2002 17:47	
Nickel	28	1.0	mg/Kg	1.00	03/15/2002 17:47	
Selenium	ND	2.0	mg/Kg	1.00	03/15/2002 17:47	
Silver	ND	1.0	mg/Kg	1.00	03/15/2002 17:47	
Thallium	ND	1.0	mg/Kg	1.00	03/15/2002 17:47	
Vanadium	40	1.0	mg/Kg	1.00	03/15/2002 17:47	
Zinc	79	1.0	mg/Kg	1.00	03/15/2002 17:47	
Mercury	0.083	0.050	mg/Kg	1.00	03/14/2002 12:45	

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CAM 17 Metals

Batch QC report

Test Method: 7471A Prep Method: 7471A

Method Blank	**Soil**	**QC Batch # 2002/03/14-02.16**
MB: 2002/03/14-02.16-011		Date Extracted: 03/14/2002 10:32

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	03/14/2002 12:36	

Submission #: 2002-03-0218

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CAM 17 Metals

Batch QC report

Test Method: 6010B Prep Method: 3050B

Method Blank **Soil** **QC Batch # 2002/03/14-02.15**

MB: 2002/03/14-02.15-035 Date Extracted: 03/14/2002 10:31

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Antimony	ND	2.0	mg/Kg	03/15/2002 17:22	
Arsenic	ND	1.0	mg/Kg	03/15/2002 17:22	
Barium	ND	1.0	mg/Kg	03/15/2002 17:22	
Beryllium	ND	0.50	mg/Kg	03/15/2002 17:22	
Cadmium	ND	0.50	mg/Kg	03/15/2002 17:22	
Chromium	ND	1.0	mg/Kg	03/15/2002 17:22	
Cobalt	ND	1.0	mg/Kg	03/15/2002 17:22	
Copper	ND	1.0	mg/Kg	03/15/2002 17:22	
Lead	ND	1.0	mg/Kg	03/15/2002 17:22	
Molybdenum	ND	1.0	mg/Kg	03/15/2002 17:22	
Nickel	ND	1.0	mg/Kg	03/15/2002 17:22	
Selenium	ND	2.0	mg/Kg	03/15/2002 17:22	
Silver	ND	1.0	mg/Kg	03/15/2002 17:22	
Thallium	ND	1.0	mg/Kg	03/15/2002 17:22	
Vanadium	ND	1.0	mg/Kg	03/15/2002 17:22	
Zinc	ND	1.0	mg/Kg	03/15/2002 17:22	

Submission #: 2002-03-0218

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CA DHS ELAP#1094

CAM 17 Metals

Batch QC report

Test Method: 7471A Prep Method: 7471A

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/14-02.16**

LCS: 2002/03/14-02.16-012 Extracted: 03/14/2002 10:32 Analyzed: 03/14/2002 12:38

LCSD: 2002/03/14-02.16-013 Extracted: 03/14/2002 10:32 Analyzed: 03/14/2002 12:39

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Mercury	0.497	0.501	0.500	0.500	99.4	100.2	0.8	85-115	20		

Submission #: 2002-03-0218

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CAM 17 Metals

Batch QC report

Test Method: 6010B Prep Method: 3050B

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/14-02.15**

LCS: 2002/03/14-02.15-036 Extracted: 03/14/2002 10:31 Analyzed: 03/15/2002 17:28

LCSD: 2002/03/14-02.15-053 Extracted: 03/14/2002 10:31 Analyzed: 03/15/2002 17:31

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Antimony	102	101	100.0	100.0	102.0	101.0	1.0	80-120	20		
Arsenic	102	100	100.0	100.0	102.0	100.0	2.0	80-120	20		
Barium	91.0	90.0	100.0	100.0	91.0	90.0	1.1	80-120	20		
Beryllium	94.0	93.0	100.0	100.0	94.0	93.0	1.1	80-120	20		
Cadmium	94.0	92.0	100.0	100.0	94.0	92.0	2.2	80-120	20		
Chromium	94.0	92.0	100.0	100.0	94.0	92.0	2.2	80-120	20		
Cobalt	91.0	89.0	100.0	100.0	91.0	89.0	2.2	80-120	20		
Copper	95.0	93.0	100.0	100.0	95.0	93.0	2.1	80-120	20		
Lead	98.0	97.0	100.0	100.0	98.0	97.0	1.0	80-120	20		
Molybdenum	100	98.0	100.0	100.0	100.0	98.0	2.0	80-120	20		
Nickel	91.0	90.0	100.0	100.0	91.0	90.0	1.1	80-120	20		
Selenium	99.0	98.0	100.0	100.0	99.0	98.0	1.0	80-120	20		
Silver	94.0	95.0	100.0	100.0	94.0	95.0	1.1	80-120	20		
Thallium	96.0	95.0	100.0	100.0	96.0	95.0	1.0	80-120	20		
Vanadium	96.0	94.0	100.0	100.0	96.0	94.0	2.1	80-120	20		
Zinc	92.0	90.0	100.0	100.0	92.0	90.0	2.2	80-120	20		

Submission #: 2002-03-0218

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9A	Project: Powell Str.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
TP-3B	Soil	03/08/2002	5
TP-4A	Soil	03/08/2002	7

Submission #: 2002-03-0218

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Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M 8021B

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**TP-3B**	Lab Sample ID:	2002-03-0218-005
Project:	1424-9A Powell Str.	Received:	03/11/2002 16:44
		Extracted:	03/12/2002 17:20
Sampled:	03/08/2002	QC-Batch:	2002/03/12-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/12/2002 17:20	
Benzene	ND	0.0050	mg/Kg	1.00	03/12/2002 17:20	
Toluene	ND	0.0050	mg/Kg	1.00	03/12/2002 17:20	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/12/2002 17:20	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/12/2002 17:20	
MTBE	ND	0.0050	mg/Kg	1.00	03/12/2002 17:20	
Surrogate(s)						
Trifluorotoluene	58.9	53-125	%	1.00	03/12/2002 17:20	
Trifluorotoluene-FID	61.9	53-125	%	1.00	03/12/2002 17:20	

Submission #: 2002-03-0218

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Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M
8021B

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: **TP-4A**
Project: 1424-9A
Powell Str.

Sampled: 03/08/2002
Matrix: Soil

Lab Sample ID: 2002-03-0218-007
Received: 03/11/2002 16:44

Extracted: 03/12/2002 17:50
QC-Batch: 2002/03/12-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/12/2002 17:50	
Benzene	ND	0.0050	mg/Kg	1.00	03/12/2002 17:50	
Toluene	ND	0.0050	mg/Kg	1.00	03/12/2002 17:50	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/12/2002 17:50	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/12/2002 17:50	
MTBE	ND	0.0050	mg/Kg	1.00	03/12/2002 17:50	
Surrogate(s)						
Trifluorotoluene	62.1	53-125	%	1.00	03/12/2002 17:50	
Trifluorotoluene-FID	60.5	53-125	%	1.00	03/12/2002 17:50	

Submission #: 2002-03-0218

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5035

Method Blank | **Soil** | **QC Batch # 2002/03/12-01.03**

MB: 2002/03/12-01.03-003

Date Extracted: 03/12/2002 09:10

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	03/12/2002 09:10	
Benzene	ND	0.0050	mg/Kg	03/12/2002 09:10	
Toluene	ND	0.0050	mg/Kg	03/12/2002 09:10	
Ethyl benzene	ND	0.0050	mg/Kg	03/12/2002 09:10	
Xylene(s)	ND	0.0050	mg/Kg	03/12/2002 09:10	
MTBE	ND	0.0050	mg/Kg	03/12/2002 09:10	
Surrogate(s)					
Trifluorotoluene	95.4	53-125	%	03/12/2002 09:10	
4-Bromofluorobenzene-FID	96.2	58-124	%	03/12/2002 09:10	

Submission #: 2002-03-0218

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/12-01.03**

LCS: 2002/03/12-01.03-004 Extracted: 03/12/2002 09:41 Analyzed: 03/12/2002 09:41

LCSD: 2002/03/12-01.03-005 Extracted: 03/12/2002 10:12 Analyzed: 03/12/2002 10:12

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0928	0.0907	0.1000	0.100	92.8	90.7	2.3	77-123	35		
Toluene	0.0898	0.0880	0.1000	0.1000	89.8	88.0	2.0	78-122	35		
Ethyl benzene	0.0884	0.0893	0.1000	0.1000	88.4	89.3	1.0	70-130	35		
Xylene(s)	0.265	0.268	0.300	0.300	88.3	89.3	1.1	75-125	35		
Surrogate(s)											
Trifluorotoluene	448	429	500	500	89.6	85.8		53-125			

Submission #: 2002-03-0218

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/12-01.03**

LCS: 2002/03/12-01.03-006 Extracted: 03/12/2002 10:42 Analyzed: 03/12/2002 10:42

LCSD: 2002/03/12-01.03-007 Extracted: 03/12/2002 11:13 Analyzed: 03/12/2002 11:13

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.479	0.453	0.500	0.500	95.8	90.6	5.6	75-125	35		
Surrogate(s)											
4-Bromofluorobenzene	441	418	500	500	88.2	83.6		58-124			

Submission #: 2002-03-0218

PCBs

Lowney & Associates Oakland
167 Filbert Street
Oakland, Ca 94607

Attn: Mark Arniola
Phone: (510) 267-1970 Fax: (510) 267-1972

1424-9A
Project: Powell Str.

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
TP-2B	Soil	03/08/2002	3
TP-4B	Soil	03/08/2002	8

Submission #: 2002-03-0218

PCBs

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8082
Prep Method: 3550/8082

Sample ID: **TP-2B**
Project: 1424-9A
Powell Str.

Sampled: 03/08/2002
Matrix: Soil

Lab Sample ID: 2002-03-0218-003
Received: 03/11/2002 16:44

Extracted: 03/12/2002 17:00
QC-Batch: 2002/03/12-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/13/2002 12:22	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/13/2002 12:22	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/13/2002 12:22	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/13/2002 12:22	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/13/2002 12:22	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/13/2002 12:22	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/13/2002 12:22	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	69.3	50-125	%	1.00	03/13/2002 12:22	
Decachlorobiphenyl (PCB/8082)	81.9	46-142	%	1.00	03/13/2002 12:22	

Submission #: 2002-03-0218

PCBs

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8082
Prep Method: 3550/8082

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**TP-4B**	Lab Sample ID:	2002-03-0218-008
Project:	1424-9A Powell Str.	Received:	03/11/2002 16:44
		Extracted:	03/12/2002 17:00
Sampled:	03/08/2002	QC-Batch:	2002/03/12-02.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/13/2002 12:43	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/13/2002 12:43	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/13/2002 12:43	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/13/2002 12:43	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/13/2002 12:43	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/13/2002 12:43	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/13/2002 12:43	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	91.5	50-125	%	1.00	03/13/2002 12:43	
Decachlorobiphenyl (PCB/8082)	82.4	46-142	%	1.00	03/13/2002 12:43	

Submission #: 2002-03-0218

SEVERN TRENT SERVICES

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Pleasanton, CA 94566

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www.chromalab.com

CA DHS ELAP#1094

PCBs

Batch QC report

Test Method: 8082 Prep Method: 3550/8082

Method Blank **Soil** **QC Batch # 2002/03/12-02.14**

MB: 2002/03/12-02.14-001 Date Extracted: 03/12/2002 17:00

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Aroclor 1016	ND	0.05	mg/Kg	03/13/2002 10:44	
Aroclor 1221	ND	0.05	mg/Kg	03/13/2002 10:44	
Aroclor 1232	ND	0.05	mg/Kg	03/13/2002 10:44	
Aroclor 1242	ND	0.05	mg/Kg	03/13/2002 10:44	
Aroclor 1248	ND	0.05	mg/Kg	03/13/2002 10:44	
Aroclor 1254	ND	0.05	mg/Kg	03/13/2002 10:44	
Aroclor 1260	ND	0.05	mg/Kg	03/13/2002 10:44	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	80.7	50-125	%	03/13/2002 10:44	
Decachlorobiphenyl (PCB/8082)	91.2	46-142	%	03/13/2002 10:44	

Submission #: 2002-03-0218

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
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CA DHS ELAP#1094

PCBs

Batch QC report

Test Method: 8082 Prep Method: 3550/8082

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/12-02.14**

LCS: 2002/03/12-02.14-002 Extracted: 03/12/2002 17:00 Analyzed: 03/13/2002 11:04

LCSD: 2002/03/12-02.14-003 Extracted: 03/12/2002 17:00 Analyzed: 03/13/2002 11:24

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Aroclor 1016	0.0740	0.0640	0.0666	0.0667	111.1	96.0	14.6	65-135	30		
Aroclor 1260	0.0760	0.0710	0.0666	0.0667	114.1	106.4	7.0	65-135	30		
Surrogate(s)											
2,4,5,6-Tetrachloro-m-	40.0	35.3	50	50	79.9	70.6		50-125	0		
Decachlorobiphenyl	44.7	42.6	50	50	89.4	85.2		46-142	0		

Submission #: 2002-03-0218

TEPH w/ Silica Gel Clean-up

SEVERN TRENT SERVICES

STL San Francisco
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www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Lowney & Associates Oakland	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9A	Project: Powell Str.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
TP-3B	Soil	03/08/2002	5
TP-4A	Soil	03/08/2002	7
TP-4B	Soil	03/08/2002	8

Submission #: 2002-03-0218

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID: **TP-3B**
Project: 1424-9A Powell Str.
Sampled: 03/08/2002
Matrix: Soil

Lab Sample ID: 2002-03-0218-005
Received: 03/11/2002 16:44
Extracted: 03/13/2002 06:45
QC-Batch: 2002/03/13-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	890	25	mg/Kg	25.00	03/16/2002 01:11	ndp
Motor Oil	2200	1300	mg/Kg	25.00	03/16/2002 01:11	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	25.00	03/16/2002 01:11	sd

Submission #: 2002-03-0218

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Amiola

Test Method: 8015M
Prep Method: 3550/8015M

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Sample ID:	**TP-4A**	Lab Sample ID:	2002-03-0218-007
Project:	1424-9A Powell Str.	Received:	03/11/2002 16:44
		Extracted:	03/13/2002 06:45
Sampled:	03/08/2002	QC-Batch:	2002/03/13-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	230	10	mg/Kg	10.00	03/16/2002 00:34	ndp
Motor Oil	900	500	mg/Kg	10.00	03/16/2002 00:34	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	10.00	03/16/2002 00:34	sd

Submission #: 2002-03-0218

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3550/8015M

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Pleasanton, CA 94566

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www.chromalab.com

CA DHS ELAP#1094

Sample ID: **TP-4B**
Project: 1424-9A Powell Str.
Sampled: 03/08/2002
Matrix: Soil

Lab Sample ID: 2002-03-0218-008
Received: 03/11/2002 16:44
Extracted: 03/13/2002 06:45
QC-Batch: 2002/03/13-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	3.6	1.0	mg/Kg	1.00	03/13/2002 19:52	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/13/2002 19:52	
Surrogate(s)						
o-Terphenyl	72.1	60-130	%	1.00	03/13/2002 19:52	

Submission #: 2002-03-0218

SEVERN TRENT SERVICES

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Pleasanton, CA 94566

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www.chromalab.com

CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015 M

Method Blank **Soil** **QC Batch # 2002/03/13-01.10**

MB: 2002/03/13-01.10-001 Date Extracted: 03/13/2002 06:45

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	03/13/2002 16:10	
Motor Oil	ND	50	mg/Kg	03/13/2002 16:10	
Surrogate(s)					
o-Terphenyl	92.1	60-130	%	03/13/2002 16:10	

Submission #: 2002-03-0218

SEVERN TRENT SERVICES

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www.chromalab.com

CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M Prep Method: 3550/8015M

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/13-01.10**

LCS: 2002/03/13-01.10-002 Extracted: 03/13/2002 06:45 Analyzed: 03/13/2002 14:56

LCSD: 2002/03/13-01.10-003 Extracted: 03/13/2002 06:45 Analyzed: 03/13/2002 15:32

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	33.6	35.1	41.7	41.7	80.6	84.2	4.4	60-130	25		
Surrogate(s)											
o-Terphenyl	18.4	19.4	20.0	20.0	92.1	97.0		60-130	0		

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Legend & Notes

Test Method: 8015M Prep Method: 3550/8015M

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Analyte Flags

sd

Surrogate recovery not reportable due to required dilution.

Submission #: 2002-03-0218

TEPH w/ Silica Gel Clean-up

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9A	Project: Powell Str.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
TP-2B	Soil	03/08/2002	3

Submission #: 2002-03-0218

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3550/8015M

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
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www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**TP-2B**	Lab Sample ID:	2002-03-0218-003
Project:	1424-9A Powell Str.	Received:	03/11/2002 16:44
		Extracted:	03/18/2002 12:10
Sampled:	03/08/2002	QC-Batch:	2002/03/18-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1800	20	mg/Kg	20.00	03/19/2002 12:01	ndp
Motor Oil	ND	1000	mg/Kg	20.00	03/19/2002 12:01	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	20.00	03/19/2002 12:01	sd

Submission #: 2002-03-0218

SEVERN TRENT SERVICES

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www.chromalab.com

CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015 M

Method Blank **Soil** **QC Batch # 2002/03/18-02.10**

MB: 2002/03/18-02.10-001

Date Extracted: 03/18/2002 12:10

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	03/19/2002 09:47	
Motor Oil	ND	50	mg/Kg	03/19/2002 09:47	
Surrogate(s)					
o-Terphenyl	93.1	60-130	%	03/19/2002 09:47	

Submission #: 2002-03-0218

SEVERN TRENT SERVICES

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1220 Quarry Lane
Pleasanton, CA 94566

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www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M Prep Method: 3550/8015M

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/18-02.10**

LCS: 2002/03/18-02.10-002 Extracted: 03/18/2002 12:10 Analyzed: 03/19/2002 09:47

LCSD: 2002/03/18-02.10-003 Extracted: 03/18/2002 12:10 Analyzed: 03/19/2002 10:27

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	36.5	39.3	41.7	41.7	87.5	94.2	7.4	60-130	25		
Surrogate(s)											
o-Terphenyl	21.6	22.7	20.0	20.0	107.8	113.5		60-130	0		

Submission #: 2002-03-0218

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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Legend & Notes

Test Method: 8015M Prep Method: 3550/8015M

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Analyte Flags

sd

Surrogate recovery not reportable due to required dilution.

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

STL San Francisco
Project Manager

1220 Quarry Ln
Pleasanton, CA 94566-4756

Client ID:	2595
Report Number:	B037519
Date Received:	03/13/02
Date Analyzed:	03/18/02
Date Printed:	03/18/02
First Reported:	03/18/02

Job ID / Site: JOB# 2002-03-0218. 1424-9A, Powell Str. **FASI Job ID:** 2595-321

Sample Number	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
TP-2B	10145688						
Layer: Black Soil			**ND**				
Total Composite Values of Fibrous Components: **Asbestos:(ND)**							
Cellulose (Trace%) Fibrous Glass (Trace%)							
Comment: Collected on 03/08/2002							
TP-4B	10145689						
Layer: Brown Soil			**ND**				
Total Composite Values of Fibrous Components: **Asbestos:(ND)**							
Cellulose (Trace%)							
Comment: Collected on 03/08/2002							

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

REC'D MAR 2 1 2002

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

STL San Francisco
Project Manager

1220 Quarry Ln
Pleasanton, CA 94566-4756

Client ID: 2595
Report Number: B037519
Date Received: 03/13/02
Date Analyzed: 03/18/02
Date Printed: 03/18/02
First Reported: 03/18/02

Job ID / Site: JOB# 2002-03-0218. 1424-9A, Powell Str.

FASI Job ID: 2595-321

Sample Number	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
TP-2B	10145688						
Layer: Black Soil			**ND**				

Total Composite Values of Fibrous Components: **Asbestos:(ND)**
Cellulose (Trace%) Fibrous Glass (Trace%)
Comment: Collected on 03/08/2002

TP-4B	10145689						
Layer: Brown Soil			**ND**				

Total Composite Values of Fibrous Components: **Asbestos:(ND)**
Cellulose (Trace%)
Comment: Collected on 03/08/2002

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Chain of Custody 2002-03-0218-1

2595 - 321

Date Shipped: 03/12/2002

From:

STL San Francisco (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

Project Manager:	Vincent Vancil	
Phone:	(925) 484-1919	Ext:
Fax:	(925) 484-1096	
Email:	vvancil@chromalab.com	

To:

Forensic Analytical - SUB CONTRACT ONLY
3777 Depot Road
Hayward, CA 94545

Phone:	(510) 887-8828
Fax:	(510) 887-4218
Contact:	Christine Wall
Phone:	(510) 887-8828

CL Submission #: **2002-03-0218**
CL PO #:

Project #: 1424-9A
Project Name: Powell Str.

Client Sample ID / Analysis		CL#	Sampled	Matrix / Method	Due
TP-2B	(1)	003	03/08/2002	Soil	
Subcontract - Asbestos					**03/18/2002 17:00**
TP-4B	(1)	008	03/08/2002	Soil	
Subcontract - Asbestos					**03/18/2002 17:00**

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: Denise Harrington	Signature:	Signature:
Time: 1415	Time:	Time:
Printed Name: D. Harrington	Printed Name:	Printed Name:
Date: 3/12/02	Date:	Date:
Company: STL-SF	Company:	Company:

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: 3.
Signature: Clarke B. Ferrell (AT)	Signature:	Signature:
Time: 10:10am	Time:	Time:
Printed Name: Clark Bond	Printed Name:	Printed Name:
Date: 3/13/02	Date:	Date:
Company: FFSF	Company:	Company:

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

☐ **Mountain View Office**
405 Clyde Ave.
Mountain View 94043
Tel: 650.967.2345
Fax: 650.967.2385

☒ **Oakland Office**
129 Filbert St.
Oakland 94607
Tel: 510.267.1770
Fax: 510.267.1792

☐ **Fullerton Office**
251 E. Imperial Hwy. #470
Fullerton 92835
Tel: 714.441.0890
Fax: 714.441.0891

☐ **San Ramon Office**
2258 Camino Ramon
San Ramon 94583
Tel: 925.275.2555
Fax: 925.275.2555

2002-03-0218

65183

CHAIN OF CUSTODY RECORD

Project Name: Powell St.
Job No.: 1424-9A
Report To: Mark Arnold
Sampler (print): Charles Mettler
Sampler (signature): Charles Mettler

Electronic Deliverable Format Required: ☐ YES ☐ NO
EDF LOGCODE: ☐ LAMV ☐ LAO ☐ LAF
Global ID # : _____

Turnaround Requirements
☒ 5 Working Days
☐ 48 Hours
☐ 24 Hours
☐ 2-3 Hours RUSH
☐ _____

QC Requirement:
☒ Level A (standard)

ANALYSES REQUESTED

Sample I.D. (Field Point Name)	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M) silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 or 8260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M) (Purgeable and Extractable)			
TP-1	3/8/02			SOIL	1													Hold
TP-2A																		
TP-2B																		
TP-3A																		
TP-3B																		
TP-3C																		
TP-4A																		
TP-4B																		
AP-1																		
																		6.08

Relinquished By: Mark Arnold Date: 3/11/02 Time: 13:48
Relinquished By: _____ Date: 3-11-02 Time: 16:44
Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: 3/11/02 Time: 13:48
Received By: _____ Date: _____ Time: _____
Lab of Record: _____
Received by Lab: N. Kuo Date: 3-11-02 Time: 16:44

PM Initial:
Temp:

Submission #: 2002-04-0037

Date: April 4, 2002

SEVERN TRENT SERVICES

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1220 Quarry Lane
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CA DHS ELAP#1094

Lowney & Associates Oakland
167 Filbert Street
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-9B
Powell St.

Dear Mr. Arniola,

Attached is our report for your samples received on Wednesday March 6, 2002
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after April 20, 2002 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@chromalab.com

Sincerely,

Vincent Vancil
Project Manager

RECEIVED
APR 11 2002
LOWNEY, CK

Submission #: 2002-04-0037

Total Lead

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SS-1@ 3.5-4.0	Soil	03/06/2002 08:00	1

Submission #: 2002-04-0037

SEVERN TRENT SERVICES

Total Lead

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 6010B
Prep Method: 3050B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**SS-1@ 3.5-4.0**	Lab Sample ID:	2002-04-0037-001
Project:	1424-9B Powell St.	Received:	03/06/2002
		Extracted:	04/03/2002 14:34
Sampled:	03/06/2002 08:00	QC-Batch:	2002/04/03-08.15
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	4.3	1.0	mg/Kg	1.00	04/04/2002 10:06	

Submission #: 2002-04-0037

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1220 Quarry Lane
Pleasanton, CA 94566

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www.chromalab.com

CA DHS ELAP#1094

Total Lead

Batch QC report

Test Method: 6010B Prep Method: 3050B

Method Blank	**Soil**	**QC Batch # 2002/04/03-08.15**
MB: 2002/04/03-08.15-028		Date Extracted: 04/03/2002 14:34

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	04/04/2002 09:54	

Submission #: 2002-04-0037

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www.chromalab.com

CA DHS ELAP#1094

Total Lead

Batch QC report

Test Method: 6010B Prep Method: 3050B

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/04/03-08.15**

LCS: 2002/04/03-08.15-029 Extracted: 04/03/2002 14:34 Analyzed: 04/04/2002 09:59

LCSD: 2002/04/03-08.15-030 Extracted: 04/03/2002 14:34 Analyzed: 04/04/2002 10:02

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Lead	93.4	93.2	100.0	100.0	93.4	93.2	0.2	80-120	20		

2002-04-0037

SEVERN TRENT SERVICES

STL ChromaLab

ADD ON/CHANGE ORDER

New Submission No.: _____

Reference No.: 65612

ORIGINAL SUBMISSION INFORMATION

Name of Caller: Mark Arnold

Call Date: _____

Client Name: Lowney-Oak

Add on Due Date: 4-403

Project Mgr.: Mark Arnold

Comments: _____

Project Name: Powell St.

Project No.: 1424-9B

PO#: _____

Date Received: 3-6-02

Submission No.: 2002-03-0114

Sample ID	Date	Time	Matrix	Prev. Spl. #	TPH (EPA 8015, 8020/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	Fuel Oxygenates (8260B): ☐ DCA, EDB ☐ Full Oxygenate List ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil & Grease ☐ Petrol ☐ Total (EPA 1664)	☐ Pesticides (EPA 8081) ☐ PCBs (EPA 8082)	PNAs by ☐ 8270 ☐ 8310	CAM 17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	☐ W.E.T. (STLC) ☐ TCLP	☐ Hexavalent Chromium ☐ pH (24 hr. hold time for H_2O)	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Br ☐ NO_2 ☐ PO_4 ☐ F ☐ Cl ☐ SO_4 ☐ NO_3					NUMBER OF CONTAINERS
SS-1@ 3.5-4.0	3602	800	S	002												X										

RUSH

Submission #: 2002-03-0479

Date: April 8, 2002

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
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www.stl-inc.com
www.chromalab.com
CA DHS ELAP#1094

Lowney & Associates Oakland
167 Filbert Street
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-9B
Powell St.

Dear Mr. Arniola,

Attached is our report for your samples received on Wednesday March 6, 2002
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after April 29, 2002 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@chromalab.com

Sincerely,

Vincent Vancil
Project Manager

RECEIVED
APR 11 2002
LOWNEY, OK

Submission #: 2002-03-0479

Metals

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SS-1 @ 0-0.5'	Soil	03/06/2002 08:00	1

Submission #: 2002-03-0479

SEVERN TRENT SERVICES

Metals

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 6010B
Prep Method: 3050B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
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CA DHS ELAP#1094

Sample ID:	**SS-1 @ 0-0.5'**	Lab Sample ID:	2002-03-0479-001
Project:	1424-9B Powell St.	Received:	03/06/2002
		Extracted:	03/26/2002 05:33
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/26-01.15
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Cadmium	2.6	0.50	mg/Kg	1.00	03/26/2002 10:39	
Chromium	18	1.0	mg/Kg	1.00	03/26/2002 10:39	
Lead	110	1.0	mg/Kg	1.00	03/26/2002 10:39	
Nickel	33	1.0	mg/Kg	1.00	03/26/2002 10:39	
Zinc	300	1.0	mg/Kg	1.00	03/26/2002 10:39	

Submission #: 2002-03-0479

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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www.chromalab.com

CA DHS ELAP#1094

Metals

Batch QC report

Test Method: 6010B Prep Method: 3050B

Method Blank	**Soil**	**QC Batch # 2002/03/26-01.15**
MB: 2002/03/26-01.15-024		Date Extracted: 03/26/2002 05:33

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Cadmium	ND	0.50	mg/Kg	03/26/2002 08:36	
Chromium	ND	1.0	mg/Kg	03/26/2002 08:36	
Lead	ND	1.0	mg/Kg	03/26/2002 08:36	
Nickel	ND	1.0	mg/Kg	03/26/2002 08:36	
Zinc	ND	1.0	mg/Kg	03/26/2002 08:36	

Submission #: 2002-03-0479

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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www.chromalab.com

CA DHS ELAP#1094

Metals

Batch QC report

Test Method: 6010B Prep Method: 3050B

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/26-01.15**

LCS: 2002/03/26-01.15-025 Extracted: 03/26/2002 05:33 Analyzed: 03/26/2002 08:41

LCSD: 2002/03/26-01.15-026 Extracted: 03/26/2002 05:33 Analyzed: 03/26/2002 08:44

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Cadmium	105	102	100.0	100.0	105.0	102.0	2.9	80-120	20		
Chromium	105	103	100.0	100.0	105.0	103.0	1.9	80-120	20		
Lead	105	102	100.0	100.0	105.0	102.0	2.9	80-120	20		
Nickel	102	99.6	100.0	100.0	102.0	99.6	2.4	80-120	20		
Zinc	104	101	100.0	100.0	104.0	101.0	2.9	80-120	20		

SEVERN TRENT SERVICES

STL ChromaLab

ADD ON/CHANGE ORDER

2002-03-0479

New Submission No.:

Reference No.: 65453

ORIGINAL SUBMISSION INFORMATION

Name of Caller: Mark Arniola

Call Date:

Client Name: Lowney

Add on Due Date: 3-29-02

Project Mgr.: ~~Vince~~ Mark Arniola

Comments: Pesticides out of hold time- run anyway, per client.

Project Name: Powell St

Project No.: 1424-9B

PO#:

Date Received: 3-6-02

Submission No.: 2002-03-0114

Sample ID	Date	Time	Matrix	Prev. Spl. #	TPH (EPA 8015, 8020/8021) ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	Fuel Oxygenates (8260B): ☐ DCA, EDB ☐ Full Oxygenate List ☐ MTBE ☐ BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil & Grease ☐ Petrol (EPA 1664) ☐ Total	Pesticides (EPA 8081) ☐ PCBs (EPA 8082)	PNAs by ☐ 8270 ☐ 8310	CAM 17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	☐ W.E.T. (STLC) ☐ TCLP	☐ Hexavalent Chromium ☐ pH (24 hr. hold time for H_2O)	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ TDS	Anions: ☐ Br ☐ NO_2 ☐ PO_4 ☐ F ☐ Cl ☐ SO_4 ☐ NO_3	[redacted]	NUMBER OF CONTAINERS
SS1 @ 0-½'	3-6	0800	S	-01									X			X						

Rev 05/01

Date: Fri, 22 Mar 2002 10:29:41 -0800
To: tgranicher@chromalab.com
From: MArniola@lowney.com
Sender: MArniola@lowney.com
Reply-To: MArniola@lowney.com
Importance: normal
Priority: normal
Subject: Powell St Samples
X-MIME-Engine: v0.90
X-Loop-Detect: 1

2002-03-0479

Tod,

Per our conversation today, please stop the analyses on sample SS-4 @ 0' - 1/2' for Project 1424-9B (Powell Street) and run the arsenic, cadmium lead, mercury, and organochlorine pesticide analyses on SS-1 @ 0' - 1/2' instead.

Thank you,

Lowney Associates
Mark Arniola, R.G.
Project Geologist
(510) 267-1970, ext. 208
www.lowney.com

Submission #: 2002-03-0114

Date: March 18, 2002

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

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www.chromalab.com
CA DHS ELAP#1094

Lowney & Associates Oakland
167 Filbert Street
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-9B
Powell St.

Dear Mr. Arniola,

Attached is our report for your samples received on Wednesday March 6, 2002
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We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@chromalab.com

Sincerely,

Vincent Vancil
Project Manager

Submission #: 2002-03-0114

Polynuclear Aromatic Hydrocarbons (PNA)

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SS-1@ 0-.5`	Soil	03/06/2002 08:00	1
SS-1@3.5-4`	Soil	03/06/2002 08:00	2
SS-2@ 0-.5`	Soil	03/06/2002 08:00	3
SS-2@ 5-5.5`	Soil	03/06/2002 08:00	4
SS-3@0-.5`	Soil	03/06/2002 08:30	5
SS-3@3.5-4`	Soil	03/06/2002 08:30	6
SS-4@0-.5`	Soil	03/06/2002 09:00	7
SS-4@3.5-4`	Soil	03/06/2002 09:00	8
SS-5@0-.5`	Soil	03/06/2002 09:00	9
SS-5@7-7.5`	Soil	03/06/2002 09:00	10
SS-6@ 0-.5`	Soil	03/06/2002 09:30	11
SS-6@ 6.5-7`	Soil	03/06/2002 09:30	12
SS-7@ 0-.5`	Soil	03/06/2002 10:00	13
SS-7@ 6-6.5`	Soil	03/06/2002 10:00	14
SS-8@0-.5`	Soil	03/06/2002 10:30	15
SS-8@7.5-8`	Soil	03/06/2002 10:30	16
SS-9@0-.5`	Soil	03/06/2002 11:00	17
SS-9@4.5-5`	Soil	03/06/2002 11:00	18
SS-10@ 0-.5`	Soil	03/06/2002 11:00	19
SS-10@4-4.5`	Soil	03/06/2002 11:00	20
SS-11@ 0-.5`	Soil	03/06/2002 11:30	21
SS-11@ 3.5-4`	Soil	03/06/2002 11:30	22
SS-12@0-5`	Soil	03/06/2002 12:00	23
SS-12@4.5-5`	Soil	03/06/2002 12:00	24
SS-13@0-.5`	Soil	03/06/2002 12:00	25
SS-13@3.5-4`	Soil	03/06/2002 12:00	26

Submission #: 2002-03-0114

SEVERN TRENT SERVICES

Polynuclear Aromatic Hydrocarbons (PNA)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8310
Prep Method: 3550/8310

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
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www.stl-inc.com
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CA DHS ELAP#1094

Sample ID:	**SS-1@ 0-.5`**	Lab Sample ID:	2002-03-0114-001
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	75	ug/Kg	5.00	03/13/2002 16:43	
Acenaphthylene	ND	50	ug/Kg	5.00	03/13/2002 16:43	
Acenaphthene	ND	50	ug/Kg	5.00	03/13/2002 16:43	
Fluorene	ND	25	ug/Kg	5.00	03/13/2002 16:43	
Phenanthrene	150	25	ug/Kg	5.00	03/13/2002 16:43	
Anthracene	ND	25	ug/Kg	5.00	03/13/2002 16:43	
Fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 16:43	
Pyrene	ND	25	ug/Kg	5.00	03/13/2002 16:43	
Benzo(a)anthracene	ND	25	ug/Kg	5.00	03/13/2002 16:43	
Chrysene	99	25	ug/Kg	5.00	03/13/2002 16:43	
Benzo(b)fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 16:43	
Benzo(k)fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 16:43	
Benzo(a)pyrene	ND	25	ug/Kg	5.00	03/13/2002 16:43	
Dibenzo(a,h)anthracene	ND	50	ug/Kg	5.00	03/13/2002 16:43	
Benzo(g,h,i)perylene	ND	50	ug/Kg	5.00	03/13/2002 16:43	
Indeno(1,2,3-cd)pyrene	ND	50	ug/Kg	5.00	03/13/2002 16:43	
Surrogate(s)						
1-Methyl naphthalene	138.4	50-150	%	5.00	03/13/2002 16:43	

Submission #: 2002-03-0114

SEVERN TRENT SERVICES

Polynuclear Aromatic Hydrocarbons (PNA)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8310
Prep Method: 3550/8310

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

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www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**SS-1@3.5-4**	Lab Sample ID:	2002-03-0114-002
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 06:02	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 06:02	
Acenaphthene	130	10	ug/Kg	1.00	03/13/2002 06:02	
Fluorene	440	5.0	ug/Kg	1.00	03/13/2002 06:02	
Phenanthrene	ND	5.0	ug/Kg	1.00	03/13/2002 06:02	
Anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 06:02	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 06:02	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 06:02	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 06:02	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 06:02	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 06:02	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 06:02	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 06:02	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 06:02	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 06:02	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 06:02	
Surrogate(s)						
1-Methyl naphthalene	91.3	50-150	%	1.00	03/13/2002 06:02	

Submission #: 2002-03-0114

SEVERN TRENT SERVICES

Polynuclear Aromatic Hydrocarbons (PNA)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8310
Prep Method: 3550/8310

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
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CA DHS ELAP#1094

Sample ID:	**SS-2@ 0-.5'**	Lab Sample ID:	2002-03-0114-003
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	150	ug/Kg	10.00	03/13/2002 09:19	
Acenaphthylene	ND	100	ug/Kg	10.00	03/13/2002 09:19	
Acenaphthene	ND	100	ug/Kg	10.00	03/13/2002 09:19	
Fluorene	ND	50	ug/Kg	10.00	03/13/2002 09:19	
Phenanthrene	ND	50	ug/Kg	10.00	03/13/2002 09:19	
Anthracene	ND	50	ug/Kg	10.00	03/13/2002 09:19	
Fluoranthene	ND	50	ug/Kg	10.00	03/13/2002 09:19	
Pyrene	140	50	ug/Kg	10.00	03/13/2002 09:19	
Benzo(a)anthracene	ND	50	ug/Kg	10.00	03/13/2002 09:19	
Chrysene	ND	50	ug/Kg	10.00	03/13/2002 09:19	
Benzo(b)fluoranthene	ND	50	ug/Kg	10.00	03/13/2002 09:19	
Benzo(k)fluoranthene	ND	50	ug/Kg	10.00	03/13/2002 09:19	
Benzo(a)pyrene	ND	50	ug/Kg	10.00	03/13/2002 09:19	
Dibenzo(a,h)anthracene	ND	100	ug/Kg	10.00	03/13/2002 09:19	
Benzo(g,h,i)perylene	ND	100	ug/Kg	10.00	03/13/2002 09:19	
Indeno(1,2,3-cd)pyrene	ND	100	ug/Kg	10.00	03/13/2002 09:19	
Surrogate(s)						
1-Methyl naphthalene	NA	50-150	%	10.00	03/13/2002 09:19	sd

Submission #: 2002-03-0114

SEVERN TRENT SERVICES

Polynuclear Aromatic Hydrocarbons (PNA)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8310
Prep Method: 3550/8310

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**SS-2@ 5-5.5'**	Lab Sample ID:	2002-03-0114-004
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 06:27	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 06:27	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 06:27	
Fluorene	ND	5.0	ug/Kg	1.00	03/13/2002 06:27	
Phenanthrene	ND	5.0	ug/Kg	1.00	03/13/2002 06:27	
Anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 06:27	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 06:27	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 06:27	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 06:27	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 06:27	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 06:27	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 06:27	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 06:27	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 06:27	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 06:27	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 06:27	
Surrogate(s)						
1-Methyl naphthalene	86.7	50-150	%	1.00	03/13/2002 06:27	

Submission #: 2002-03-0114

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Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8310
Prep Method: 3550/8310

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CA DHS ELAP#1094

Sample ID:	**SS-3@0-.5'**	Lab Sample ID:	2002-03-0114-005
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 08:30	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 06:51	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 06:51	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 06:51	
Fluorene	ND	5.0	ug/Kg	1.00	03/13/2002 06:51	
Phenanthrene	ND	5.0	ug/Kg	1.00	03/13/2002 06:51	
Anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 06:51	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 06:51	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 06:51	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 06:51	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 06:51	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 06:51	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 06:51	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 06:51	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 06:51	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 06:51	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 06:51	
Surrogate(s)						
1-Methyl naphthalene	81.3	50-150	%	1.00	03/13/2002 06:51	

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CA DHS ELAP#1094

Sample ID:	**SS-3@3.5-4**	Lab Sample ID:	2002-03-0114-006
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 08:30	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 07:16	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 07:16	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 07:16	
Fluorene	250	5.0	ug/Kg	1.00	03/13/2002 07:16	
Phenanthrene	75	5.0	ug/Kg	1.00	03/13/2002 07:16	
Anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 07:16	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 07:16	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 07:16	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 07:16	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 07:16	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 07:16	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 07:16	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 07:16	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 07:16	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 07:16	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 07:16	
Surrogate(s)						
1-Methyl naphthalene	119.0	50-150	%	1.00	03/13/2002 07:16	

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Polynuclear Aromatic Hydrocarbons (PNA)

Lowney & Associates Oakland
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Test Method: 8310
Prep Method: 3550/8310

Sample ID:	**SS-4@0-.5`**	Lab Sample ID:	2002-03-0114-007
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 09:00	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	75	ug/Kg	5.00	03/13/2002 10:08	
Acenaphthylene	ND	50	ug/Kg	5.00	03/13/2002 10:08	
Acenaphthene	ND	50	ug/Kg	5.00	03/13/2002 10:08	
Fluorene	ND	25	ug/Kg	5.00	03/13/2002 10:08	
Phenanthrene	110	25	ug/Kg	5.00	03/13/2002 10:08	
Anthracene	ND	25	ug/Kg	5.00	03/13/2002 10:08	
Fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 10:08	
Pyrene	ND	25	ug/Kg	5.00	03/13/2002 10:08	
Benzo(a)anthracene	ND	25	ug/Kg	5.00	03/13/2002 10:08	
Chrysene	ND	25	ug/Kg	5.00	03/13/2002 10:08	
Benzo(b)fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 10:08	
Benzo(k)fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 10:08	
Benzo(a)pyrene	ND	25	ug/Kg	5.00	03/13/2002 10:08	
Dibenzo(a,h)anthracene	ND	50	ug/Kg	5.00	03/13/2002 10:08	
Benzo(g,h,i)perylene	ND	50	ug/Kg	5.00	03/13/2002 10:08	
Indeno(1,2,3-cd)pyrene	ND	50	ug/Kg	5.00	03/13/2002 10:08	
Surrogate(s)						
1-Methyl naphthalene	112.9	50-150	%	5.00	03/13/2002 10:08	

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Polynuclear Aromatic Hydrocarbons (PNA)

Lowney & Associates Oakland
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Test Method: 8310
Prep Method: 3550/8310

Sample ID:	**SS-4@3.5-4'**	Lab Sample ID:	2002-03-0114-008
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 09:00	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 07:41	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 07:41	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 07:41	
Fluorene	270	5.0	ug/Kg	1.00	03/13/2002 07:41	
Phenanthrene	27	5.0	ug/Kg	1.00	03/13/2002 07:41	
Anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 07:41	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 07:41	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 07:41	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 07:41	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 07:41	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 07:41	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 07:41	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 07:41	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 07:41	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 07:41	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 07:41	
Surrogate(s)						
1-Methyl naphthalene	169.4	50-150	%	1.00	03/13/2002 07:41	sh

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Sample ID: **SS-5@0-.5`**
Project: 1424-9B Powell St.
Sampled: 03/06/2002 09:00
Matrix: Soil

Lab Sample ID: 2002-03-0114-009
Received: 03/06/2002 16:10
Extracted: 03/08/2002 12:13
QC-Batch: 2002/03/08-01.18

Sample/Analysis Flag: lm (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	150	ug/Kg	10.00	03/13/2002 09:44	
Acenaphthylene	ND	100	ug/Kg	10.00	03/13/2002 09:44	
Acenaphthene	ND	100	ug/Kg	10.00	03/13/2002 09:44	
Fluorene	ND	50	ug/Kg	10.00	03/13/2002 09:44	
Phenanthrene	ND	50	ug/Kg	10.00	03/13/2002 09:44	
Anthracene	ND	50	ug/Kg	10.00	03/13/2002 09:44	
Fluoranthene	ND	50	ug/Kg	10.00	03/13/2002 09:44	
Pyrene	ND	50	ug/Kg	10.00	03/13/2002 09:44	
Benzo(a)anthracene	ND	50	ug/Kg	10.00	03/13/2002 09:44	
Chrysene	ND	50	ug/Kg	10.00	03/13/2002 09:44	
Benzo(b)fluoranthene	ND	50	ug/Kg	10.00	03/13/2002 09:44	
Benzo(k)fluoranthene	ND	50	ug/Kg	10.00	03/13/2002 09:44	
Benzo(a)pyrene	ND	50	ug/Kg	10.00	03/13/2002 09:44	
Dibenzo(a,h)anthracene	ND	100	ug/Kg	10.00	03/13/2002 09:44	
Benzo(g,h,i)perylene	ND	100	ug/Kg	10.00	03/13/2002 09:44	
Indeno(1,2,3-cd)pyrene	ND	100	ug/Kg	10.00	03/13/2002 09:44	
Surrogate(s)						
1-Methyl naphthalene	NA	50-150	%	10.00	03/13/2002 09:44	sd

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CA DHS ELAP#1094

Sample ID:	**SS-5@7-7.5**	Lab Sample ID:	2002-03-0114-010
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 09:00	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 08:05	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 08:05	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 08:05	
Fluorene	490	5.0	ug/Kg	1.00	03/13/2002 08:05	
Phenanthrene	710	5.0	ug/Kg	1.00	03/13/2002 08:05	
Anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 08:05	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 08:05	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 08:05	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 08:05	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 08:05	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 08:05	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 08:05	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 08:05	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 08:05	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 08:05	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 08:05	
Surrogate(s)						
1-Methyl naphthalene	284.1	50-150	%	1.00	03/13/2002 08:05	sh

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Sample ID:	**SS-6@ 0-.5`**	Lab Sample ID:	2002-03-0114-011
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 09:30	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	150	ug/Kg	10.00	03/13/2002 08:55	
Acenaphthylene	ND	100	ug/Kg	10.00	03/13/2002 08:55	
Acenaphthene	ND	100	ug/Kg	10.00	03/13/2002 08:55	
Fluorene	ND	50	ug/Kg	10.00	03/13/2002 08:55	
Phenanthrene	ND	50	ug/Kg	10.00	03/13/2002 08:55	
Anthracene	ND	50	ug/Kg	10.00	03/13/2002 08:55	
Fluoranthene	ND	50	ug/Kg	10.00	03/13/2002 08:55	
Pyrene	290	50	ug/Kg	10.00	03/13/2002 08:55	
Benzo(a)anthracene	ND	50	ug/Kg	10.00	03/13/2002 08:55	
Chrysene	ND	50	ug/Kg	10.00	03/13/2002 08:55	
Benzo(b)fluoranthene	ND	50	ug/Kg	10.00	03/13/2002 08:55	
Benzo(k)fluoranthene	ND	50	ug/Kg	10.00	03/13/2002 08:55	
Benzo(a)pyrene	ND	50	ug/Kg	10.00	03/13/2002 08:55	
Dibenzo(a,h)anthracene	ND	100	ug/Kg	10.00	03/13/2002 08:55	
Benzo(g,h,i)perylene	ND	100	ug/Kg	10.00	03/13/2002 08:55	
Indeno(1,2,3-cd)pyrene	ND	100	ug/Kg	10.00	03/13/2002 08:55	
Surrogate(s)						
1-Methyl naphthalene	NA	50-150	%	10.00	03/13/2002 08:55	sd

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Polynuclear Aromatic Hydrocarbons (PNA)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8310
Prep Method: 3550/8310

Sample ID:	**SS-6@ 6.5-7'**	Lab Sample ID:	2002-03-0114-012
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 09:30	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 10:33	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 10:33	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 10:33	
Fluorene	33	5.0	ug/Kg	1.00	03/13/2002 10:33	
Phenanthrene	ND	5.0	ug/Kg	1.00	03/13/2002 10:33	
Anthracene	16	5.0	ug/Kg	1.00	03/13/2002 10:33	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 10:33	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 10:33	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 10:33	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 10:33	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 10:33	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 10:33	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 10:33	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 10:33	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 10:33	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 10:33	
Surrogate(s)						
1-Methyl naphthalene	92.4	50-150	%	1.00	03/13/2002 10:33	

Submission #: 2002-03-0114

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Polynuclear Aromatic Hydrocarbons (PNA)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8310
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Sample ID:	**SS-7@ 0-.5'**	Lab Sample ID:	2002-03-0114-013
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 10:00	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 17:57	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 17:57	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 17:57	
Fluorene	ND	5.0	ug/Kg	1.00	03/13/2002 17:57	
Phenanthrene	ND	5.0	ug/Kg	1.00	03/13/2002 17:57	
Anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 17:57	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 17:57	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 17:57	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 17:57	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 17:57	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 17:57	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 17:57	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 17:57	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 17:57	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 17:57	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 17:57	
Surrogate(s)						
1-Methyl naphthalene	76.6	50-150	%	1.00	03/13/2002 17:57	

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Sample ID:	**SS-7@ 6-6.5'**	Lab Sample ID:	2002-03-0114-014
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 10:00	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	620	15	ug/Kg	1.00	03/13/2002 08:30	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 08:30	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 08:30	
Fluorene	330	5.0	ug/Kg	1.00	03/13/2002 08:30	
Phenanthrene	530	5.0	ug/Kg	1.00	03/13/2002 08:30	
Anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 08:30	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 08:30	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 08:30	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 08:30	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 08:30	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 08:30	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 08:30	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 08:30	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 08:30	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 08:30	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 08:30	
Surrogate(s)						
1-Methyl naphthalene	227.5	50-150	%	1.00	03/13/2002 08:30	sh

Submission #: 2002-03-0114

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Lowney & Associates Oakland
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Test Method: 8310
Prep Method: 3550/8310

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CA DHS ELAP#1094

Sample ID:	**SS-8@0-.5'**	Lab Sample ID:	2002-03-0114-015
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 09:14
Sampled:	03/06/2002 10:30	QC-Batch:	2002/03/11-02.18
Matrix:	Soil		

Sample/Analysis Flag: Im (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	75	ug/Kg	5.00	03/13/2002 16:18	
Acenaphthylene	ND	50	ug/Kg	5.00	03/13/2002 16:18	
Acenaphthene	ND	50	ug/Kg	5.00	03/13/2002 16:18	
Fluorene	ND	25	ug/Kg	5.00	03/13/2002 16:18	
Phenanthrene	ND	25	ug/Kg	5.00	03/13/2002 16:18	
Anthracene	ND	25	ug/Kg	5.00	03/13/2002 16:18	
Fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 16:18	
Pyrene	ND	25	ug/Kg	5.00	03/13/2002 16:18	
Benzo(a)anthracene	ND	25	ug/Kg	5.00	03/13/2002 16:18	
Chrysene	ND	25	ug/Kg	5.00	03/13/2002 16:18	
Benzo(b)fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 16:18	
Benzo(k)fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 16:18	
Benzo(a)pyrene	ND	25	ug/Kg	5.00	03/13/2002 16:18	
Dibenzo(a,h)anthracene	ND	50	ug/Kg	5.00	03/13/2002 16:18	
Benzo(g,h,i)perylene	ND	50	ug/Kg	5.00	03/13/2002 16:18	
Indeno(1,2,3-cd)pyrene	ND	50	ug/Kg	5.00	03/13/2002 16:18	
Surrogate(s)						
1-Methyl naphthalene	112.4	50-150	%	5.00	03/13/2002 16:18	

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Polynuclear Aromatic Hydrocarbons (PNA)

Lowney & Associates Oakland
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Test Method: 8310
Prep Method: 3550/8310

Sample ID:	**SS-8@7.5-8`**	Lab Sample ID:	2002-03-0114-016
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 09:14
Sampled:	03/06/2002 10:30	QC-Batch:	2002/03/11-02.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 14:15	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 14:15	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 14:15	
Fluorene	ND	5.0	ug/Kg	1.00	03/13/2002 14:15	
Phenanthrene	ND	5.0	ug/Kg	1.00	03/13/2002 14:15	
Anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 14:15	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 14:15	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 14:15	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 14:15	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 14:15	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 14:15	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 14:15	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 14:15	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 14:15	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 14:15	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 14:15	
Surrogate(s)						
1-Methyl naphthalene	82.3	50-150	%	1.00	03/13/2002 14:15	

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CA DHS ELAP#1094

Sample ID:	**SS-9@0-.5**	Lab Sample ID:	2002-03-0114-017
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 09:14
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/11-02.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	75	ug/Kg	5.00	03/13/2002 15:54	
Acenaphthylene	ND	50	ug/Kg	5.00	03/13/2002 15:54	
Acenaphthene	ND	50	ug/Kg	5.00	03/13/2002 15:54	
Fluorene	ND	25	ug/Kg	5.00	03/13/2002 15:54	
Phenanthrene	ND	25	ug/Kg	5.00	03/13/2002 15:54	
Anthracene	ND	25	ug/Kg	5.00	03/13/2002 15:54	
Fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 15:54	
Pyrene	200	25	ug/Kg	5.00	03/13/2002 15:54	
Benzo(a)anthracene	ND	25	ug/Kg	5.00	03/13/2002 15:54	
Chrysene	ND	25	ug/Kg	5.00	03/13/2002 15:54	
Benzo(b)fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 15:54	
Benzo(k)fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 15:54	
Benzo(a)pyrene	ND	25	ug/Kg	5.00	03/13/2002 15:54	
Dibenzo(a,h)anthracene	ND	50	ug/Kg	5.00	03/13/2002 15:54	
Benzo(g,h,i)perylene	ND	50	ug/Kg	5.00	03/13/2002 15:54	
Indeno(1,2,3-cd)pyrene	ND	50	ug/Kg	5.00	03/13/2002 15:54	
Surrogate(s)						
1-Methyl naphthalene	119.7	50-150	%	5.00	03/13/2002 15:54	

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Polynuclear Aromatic Hydrocarbons (PNA)

Lowney & Associates Oakland
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Test Method: 8310
Prep Method: 3550/8310

Sample ID:	**SS-9@4.5-5`**	Lab Sample ID:	2002-03-0114-018
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 09:14
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/11-02.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 13:50	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 13:50	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 13:50	
Fluorene	88	5.0	ug/Kg	1.00	03/13/2002 13:50	
Phenanthrene	ND	5.0	ug/Kg	1.00	03/13/2002 13:50	
Anthracene	67	5.0	ug/Kg	1.00	03/13/2002 13:50	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 13:50	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 13:50	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 13:50	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 13:50	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 13:50	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 13:50	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 13:50	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 13:50	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 13:50	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 13:50	
Surrogate(s)						
1-Methyl naphthalene	102.8	50-150	%	1.00	03/13/2002 13:50	

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Sample ID:	**SS-10@ 0-.5`**	Lab Sample ID:	2002-03-0114-019
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 09:14
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/11-02.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 13:26	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 13:26	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 13:26	
Fluorene	ND	5.0	ug/Kg	1.00	03/13/2002 13:26	
Phenanthrene	ND	5.0	ug/Kg	1.00	03/13/2002 13:26	
Anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 13:26	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 13:26	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 13:26	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 13:26	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 13:26	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 13:26	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 13:26	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 13:26	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 13:26	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 13:26	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 13:26	
Surrogate(s)						
1-Methyl naphthalene	101.9	50-150	%	1.00	03/13/2002 13:26	

Submission #: 2002-03-0114

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Polynuclear Aromatic Hydrocarbons (PNA)

Lowney & Associates Oakland
Attn: Mark Amiola

Test Method: 8310
Prep Method: 3550/8310

Sample ID:	**SS-10@4-4.5'**	Lab Sample ID:	2002-03-0114-020
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 09:14
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/11-02.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 13:01	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 13:01	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 13:01	
Fluorene	ND	5.0	ug/Kg	1.00	03/13/2002 13:01	
Phenanthrene	ND	5.0	ug/Kg	1.00	03/13/2002 13:01	
Anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 13:01	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 13:01	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 13:01	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 13:01	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 13:01	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 13:01	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 13:01	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 13:01	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 13:01	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 13:01	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 13:01	
Surrogate(s)						
1-Methyl naphthalene	84.8	50-150	%	1.00	03/13/2002 13:01	

Submission #: 2002-03-0114

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Polynuclear Aromatic Hydrocarbons (PNA)

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CA DHS ELAP#1094

Sample ID: **SS-11@ 0-.5`**
Project: 1424-9B Powell St.
Sampled: 03/06/2002 11:30
Matrix: Soil
Sample/Analysis Flag: lrn (See Legend & Note section)

Lab Sample ID: 2002-03-0114-021
Received: 03/06/2002 16:10
Extracted: 03/08/2002 12:13
QC-Batch: 2002/03/08-01.18

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	75	ug/Kg	5.00	03/13/2002 17:07	
Acenaphthylene	ND	50	ug/Kg	5.00	03/13/2002 17:07	
Acenaphthene	ND	50	ug/Kg	5.00	03/13/2002 17:07	
Fluorene	ND	25	ug/Kg	5.00	03/13/2002 17:07	
Phenanthrene	ND	25	ug/Kg	5.00	03/13/2002 17:07	
Anthracene	ND	25	ug/Kg	5.00	03/13/2002 17:07	
Fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 17:07	
Pyrene	ND	25	ug/Kg	5.00	03/13/2002 17:07	
Benzo(a)anthracene	ND	25	ug/Kg	5.00	03/13/2002 17:07	
Chrysene	ND	25	ug/Kg	5.00	03/13/2002 17:07	
Benzo(b)fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 17:07	
Benzo(k)fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 17:07	
Benzo(a)pyrene	ND	25	ug/Kg	5.00	03/13/2002 17:07	
Dibenzo(a,h)anthracene	ND	50	ug/Kg	5.00	03/13/2002 17:07	
Benzo(g,h,i)perylene	ND	50	ug/Kg	5.00	03/13/2002 17:07	
Indeno(1,2,3-cd)pyrene	ND	50	ug/Kg	5.00	03/13/2002 17:07	
Surrogate(s)						
1-Methyl naphthalene	98.8	50-150	%	5.00	03/13/2002 17:07	

Submission #: 2002-03-0114

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Polynuclear Aromatic Hydrocarbons (PNA)

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CA DHS ELAP#1094

Sample ID:	**SS-11@ 3.5-4'**	Lab Sample ID:	2002-03-0114-022
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 11:30	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 10:58	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 10:58	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 10:58	
Fluorene	ND	5.0	ug/Kg	1.00	03/13/2002 10:58	
Phenanthrene	ND	5.0	ug/Kg	1.00	03/13/2002 10:58	
Anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 10:58	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 10:58	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 10:58	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 10:58	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 10:58	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 10:58	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 10:58	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 10:58	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 10:58	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 10:58	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 10:58	
Surrogate(s)						
1-Methyl naphthalene	86.3	50-150	%	1.00	03/13/2002 10:58	

Submission #: 2002-03-0114

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Polynuclear Aromatic Hydrocarbons (PNA)

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Test Method: 8310
Prep Method: 3550/8310

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CA DHS ELAP#1094

Sample ID:	**SS-12@0-5'**	Lab Sample ID:	2002-03-0114-023
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 12:00	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 15:04	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 15:04	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 15:04	
Fluorene	ND	5.0	ug/Kg	1.00	03/13/2002 15:04	
Phenanthrene	25	5.0	ug/Kg	1.00	03/13/2002 15:04	
Anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 15:04	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 15:04	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 15:04	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 15:04	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 15:04	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 15:04	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 15:04	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 15:04	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 15:04	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 15:04	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 15:04	
Surrogate(s)						
1-Methyl naphthalene	70.8	50-150	%	1.00	03/13/2002 15:04	

Submission #: 2002-03-0114

Polynuclear Aromatic Hydrocarbons (PNA)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8310
Prep Method: 3550/8310

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**SS-12@4.5-5'**	Lab Sample ID:	2002-03-0114-024
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 12:00	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 15:29	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 15:29	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 15:29	
Fluorene	ND	5.0	ug/Kg	1.00	03/13/2002 15:29	
Phenanthrene	ND	5.0	ug/Kg	1.00	03/13/2002 15:29	
Anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 15:29	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 15:29	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 15:29	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 15:29	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 15:29	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 15:29	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 15:29	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 15:29	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 15:29	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 15:29	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 15:29	
Surrogate(s)						
1-Methyl naphthalene	81.2	50-150	%	1.00	03/13/2002 15:29	

Submission #: 2002-03-0114

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Prep Method: 3550/8310

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CA DHS ELAP#1094

Sample ID: **SS-13@0-.5`**
Project: 1424-9B Powell St.
Sampled: 03/06/2002 12:00
Matrix: Soil
Sample/Analysis Flag: lm (See Legend & Note section)

Lab Sample ID: 2002-03-0114-025
Received: 03/06/2002 16:10
Extracted: 03/08/2002 12:13
QC-Batch: 2002/03/08-01.18

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	75	ug/Kg	5.00	03/13/2002 17:32	
Acenaphthylene	ND	50	ug/Kg	5.00	03/13/2002 17:32	
Acenaphthene	ND	50	ug/Kg	5.00	03/13/2002 17:32	
Fluorene	ND	25	ug/Kg	5.00	03/13/2002 17:32	
Phenanthrene	ND	25	ug/Kg	5.00	03/13/2002 17:32	
Anthracene	ND	25	ug/Kg	5.00	03/13/2002 17:32	
Fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 17:32	
Pyrene	ND	25	ug/Kg	5.00	03/13/2002 17:32	
Benzo(a)anthracene	ND	25	ug/Kg	5.00	03/13/2002 17:32	
Chrysene	ND	25	ug/Kg	5.00	03/13/2002 17:32	
Benzo(b)fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 17:32	
Benzo(k)fluoranthene	ND	25	ug/Kg	5.00	03/13/2002 17:32	
Benzo(a)pyrene	ND	25	ug/Kg	5.00	03/13/2002 17:32	
Dibenzo(a,h)anthracene	ND	50	ug/Kg	5.00	03/13/2002 17:32	
Benzo(g,h,i)perylene	ND	50	ug/Kg	5.00	03/13/2002 17:32	
Indeno(1,2,3-cd)pyrene	ND	50	ug/Kg	5.00	03/13/2002 17:32	
Surrogate(s)						
1-Methyl naphthalene	78.0	50-150	%	5.00	03/13/2002 17:32	

Submission #: 2002-03-0114

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Polynuclear Aromatic Hydrocarbons (PNA)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8310
Prep Method: 3550/8310

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CA DHS ELAP#1094

Sample ID:	**SS-13@3.5-4`**	Lab Sample ID:	2002-03-0114-026
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:13
Sampled:	03/06/2002 12:00	QC-Batch:	2002/03/08-01.18
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Naphthalene	ND	15	ug/Kg	1.00	03/13/2002 11:22	
Acenaphthylene	ND	10	ug/Kg	1.00	03/13/2002 11:22	
Acenaphthene	ND	10	ug/Kg	1.00	03/13/2002 11:22	
Fluorene	ND	5.0	ug/Kg	1.00	03/13/2002 11:22	
Phenanthrene	ND	5.0	ug/Kg	1.00	03/13/2002 11:22	
Anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 11:22	
Fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 11:22	
Pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 11:22	
Benzo(a)anthracene	ND	5.0	ug/Kg	1.00	03/13/2002 11:22	
Chrysene	ND	5.0	ug/Kg	1.00	03/13/2002 11:22	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 11:22	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	1.00	03/13/2002 11:22	
Benzo(a)pyrene	ND	5.0	ug/Kg	1.00	03/13/2002 11:22	
Dibenzo(a,h)anthracene	ND	10	ug/Kg	1.00	03/13/2002 11:22	
Benzo(g,h,i)perylene	ND	10	ug/Kg	1.00	03/13/2002 11:22	
Indeno(1,2,3-cd)pyrene	ND	10	ug/Kg	1.00	03/13/2002 11:22	
Surrogate(s)						
1-Methyl naphthalene	78.4	50-150	%	1.00	03/13/2002 11:22	

Submission #: 2002-03-0114

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Polynuclear Aromatic Hydrocarbons (PNA)

Batch QC report

Test Method: 8310 Prep Method: 3550/8310

Method Blank **Soil** **QC Batch # 2002/03/08-01.18**

MB: 2002/03/08-01.18-001 Date Extracted: 03/08/2002 12:13

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Naphthalene	ND	15.0	ug/Kg	03/13/2002 04:24	
Acenaphthylene	ND	10	ug/Kg	03/13/2002 04:24	
Acenaphthene	ND	10	ug/Kg	03/13/2002 04:24	
Fluorene	ND	5.0	ug/Kg	03/13/2002 04:24	
Phenanthrene	ND	5.0	ug/Kg	03/13/2002 04:24	
Anthracene	ND	5.0	ug/Kg	03/13/2002 04:24	
Fluoranthene	ND	5.0	ug/Kg	03/13/2002 04:24	
Pyrene	ND	5.0	ug/Kg	03/13/2002 04:24	
Benzo(a)anthracene	ND	5.0	ug/Kg	03/13/2002 04:24	
Chrysene	ND	5.0	ug/Kg	03/13/2002 04:24	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	03/13/2002 04:24	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	03/13/2002 04:24	
Benzo(a)pyrene	ND	5.0	ug/Kg	03/13/2002 04:24	
Dibenzo(a,h)anthracene	ND	10.0	ug/Kg	03/13/2002 04:24	
Benzo(g,h,i)perylene	ND	10.0	ug/Kg	03/13/2002 04:24	
Indeno(1,2,3-cd)pyrene	ND	10.0	ug/Kg	03/13/2002 04:24	
Surrogate(s)					
1-Methyl naphthalene	84.9	50-150	%	03/13/2002 04:24	

Submission #: 2002-03-0114

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Polynuclear Aromatic Hydrocarbons (PNA)

Batch QC report

Test Method: 8310 Prep Method: 3550/8310

Method Blank **Soil** **QC Batch # 2002/03/11-02.18**

MB: 2002/03/11-02.18-001 Date Extracted: 03/11/2002 09:14

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Naphthalene	ND	15.0	ug/Kg	03/13/2002 04:48	
Acenaphthylene	ND	10	ug/Kg	03/13/2002 04:48	
Acenaphthene	ND	10	ug/Kg	03/13/2002 04:48	
Fluorene	ND	5.0	ug/Kg	03/13/2002 04:48	
Phenanthrene	ND	5.0	ug/Kg	03/13/2002 04:48	
Anthracene	ND	5.0	ug/Kg	03/13/2002 04:48	
Fluoranthene	ND	5.0	ug/Kg	03/13/2002 04:48	
Pyrene	ND	5.0	ug/Kg	03/13/2002 04:48	
Benzo(a)anthracene	ND	5.0	ug/Kg	03/13/2002 04:48	
Chrysene	ND	5.0	ug/Kg	03/13/2002 04:48	
Benzo(b)fluoranthene	ND	5.0	ug/Kg	03/13/2002 04:48	
Benzo(k)fluoranthene	ND	5.0	ug/Kg	03/13/2002 04:48	
Benzo(a)pyrene	ND	5.0	ug/Kg	03/13/2002 04:48	
Dibenzo(a,h)anthracene	ND	10.0	ug/Kg	03/13/2002 04:48	
Benzo(g,h,i)perylene	ND	10.0	ug/Kg	03/13/2002 04:48	
Indeno(1,2,3-cd)pyrene	ND	10.0	ug/Kg	03/13/2002 04:48	
Surrogate(s)					
1-Methyl naphthalene	83.4	50-150	%	03/13/2002 04:48	

Submission #: 2002-03-0114

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Polynuclear Aromatic Hydrocarbons (PNA)

Batch QC report

Test Method: 8310 Prep Method: 3550/8310

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/08-01.18**

LCS: 2002/03/08-01.18-002 Extracted: 03/08/2002 12:13 Analyzed: 03/13/2002 03:35

LCSD: 2002/03/08-01.18-003 Extracted: 03/08/2002 12:13 Analyzed: 03/13/2002 03:59

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Naphthalene	126	149	200	200	63.0	74.5	16.7	50-150	35		
Phenanthrene	195	214	200	200	97.5	107.0	9.3	50-150	35		
Pyrene	195	208	200	200	97.5	104.0	6.5	50-150	35		
Chrysene	197	207	200	200	98.5	103.5	5.0	50-150	35		
Benzo(a)pyrene	154	158	200	200	77.0	79.0	2.6	50-150	35		
Surrogate(s)											
1-Methyl naphthalene	10.4	7.77	15	15	69.1	51.8		50-150	0		

Submission #: 2002-03-0114

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Polynuclear Aromatic Hydrocarbons (PNA)

Batch QC report

Test Method: 8310 Prep Method: 3550/8310

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/11-02.18**

LCS: 2002/03/11-02.18-002 Extracted: 03/11/2002 09:14 Analyzed: 03/13/2002 05:13

LCSD: 2002/03/11-02.18-003 Extracted: 03/11/2002 09:14 Analyzed: 03/13/2002 05:38

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Naphthalene	168	150	200	200	84.0	75.0	11.3	50-150	35		
Phenanthrene	201	205	200	200	100.5	102.5	2.0	50-150	35		
Pyrene	204	204	200	200	102.0	102.0	0.0	50-150	35		
Chrysene	212	209	200	200	106.0	104.5	1.4	50-150	35		
Benzo(a)pyrene	185	181	200	200	92.5	90.5	2.2	50-150	35		
Surrogate(s)											
1-Methyl naphthalene	9.95	8.62	15	15	66.4	57.5		50-150	0		

Submission #: 2002-03-0114

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Polynuclear Aromatic Hydrocarbons (PNA)

Batch QC Report

Test Method: 8310 Prep Method: 3550/8310

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2002/03/08-01.18**

Sample ID: **SS-13@0-.5` >> MS** Lab ID: 2002-03-0114-025

MS: 2002/03/08-01.18-004 Extracted: 03/08/2002 12:13 Analyzed: 03/13/2002 14:40
Dilution: 1

MSD: 2002/03/08-01.18-005 Extracted: 03/08/2002 12:13 Analyzed: 03/13/2201 19:11
Dilution: 1

Compound	Conc. [ug/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Naphthalene	145	194	ND	200	200	72.5	97.0	28.9	50-150	35		
Phenanthrene	171	223	ND	200	200	85.5	111.5	26.4	50-150	35		
Pyrene	159	212	ND	200	200	79.5	106.0	28.6	50-150	35		
Chrysene	137	190	ND	200	200	68.5	95.0	32.4	50-150	35		
Benzo(a)pyrene	118	189	ND	200	200	59.0	94.5	46.3	50-150	35		rpd
Surrogate(s)												
1-Methyl	15.7	15.0		15	15	104.	100.2		50-150	0		

Submission #: 2002-03-0114

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Polynuclear Aromatic Hydrocarbons (PNA)

Batch QC Report

Test Method: 8310 Prep Method: 3550/8310

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2002/03/11-02.18**

Sample ID: **SS-10@4-4.5` >> MS** Lab ID: 2002-03-0114-020

MS: 2002/03/11-02.18-004 Extracted: 03/11/2002 09:14 Analyzed: 03/14/2002 04:12
Dilution: 1

MSD: 2002/03/11-02.18-005 Extracted: 03/11/2002 09:14 Analyzed: 03/14/2002 04:37
Dilution: 1

Compound	Conc. [ug/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Naphthalene	79.6	67.9	ND	200	200	39.8	34.0	15.7	50-150	35	mso	mso
Phenanthrene	153	128	ND	200	200	76.5	64.0	17.8	50-150	35		
Pyrene	176	129	ND	200	200	88.0	64.5	30.8	50-150	35		
Chrysene	146	137	ND	200	200	73.0	68.5	6.4	50-150	35		
Benzo(a)pyrene	143	130	ND	200	200	71.5	65.0	9.5	50-150	35		
Surrogate(s)												
1-Methyl	8.09	9.39		15	15	53.9	62.6		50-150	0		

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Polynuclear Aromatic Hydrocarbons (PNA)

Legend & Notes

Test Method: 8310 Prep Method: 3550/8310

QC Compound Flags

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

QC Compound Flags

rpd

Analyte RPD was out of QC limits due to sample heterogeneity.

Analysis Flags

lm

Reporting limits raised due to high level of non-target analyte materials.

Analyte Flags

sd

Surrogate recovery not reportable due to required dilution.

Analyte Flags

sh

Surrogate recovery was higher than QC limit due to matrix interference.

Submission #: 2002-03-0114

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP#1094

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Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SS-12@0-5`	Soil	03/06/2002 12:00	23

Submission #: 2002-03-0114

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Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP#1094

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5035

Sample ID: **SS-12@0-5'**
Project: 1424-9B
Powell St.

Sampled: 03/06/2002 12:00
Matrix: Soil

Lab Sample ID: 2002-03-0114-023
Received: 03/06/2002 16:10

Extracted: 03/15/2002 22:00
QC-Batch: 2002/03/15-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/15/2002 22:00	
Benzene	ND	0.0050	mg/Kg	1.00	03/15/2002 22:00	
Toluene	ND	0.0050	mg/Kg	1.00	03/15/2002 22:00	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/15/2002 22:00	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/15/2002 22:00	
MTBE	ND	0.0050	mg/Kg	1.00	03/15/2002 22:00	
Surrogate(s)						
Trifluorotoluene	67.6	53-125	%	1.00	03/15/2002 22:00	
Trifluorotoluene-FID	65.3	53-125	%	1.00	03/15/2002 22:00	

Submission #: 2002-03-0114

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5035

Method Blank **Soil** **QC Batch # 2002/03/15-01.03**

MB: 2002/03/15-01.03-003 Date Extracted: 03/15/2002 09:20

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	03/15/2002 09:20	
Benzene	ND	0.0050	mg/Kg	03/15/2002 09:20	
Toluene	ND	0.0050	mg/Kg	03/15/2002 09:20	
Ethyl benzene	ND	0.0050	mg/Kg	03/15/2002 09:20	
Xylene(s)	ND	0.0050	mg/Kg	03/15/2002 09:20	
MTBE	ND	0.0050	mg/Kg	03/15/2002 09:20	
Surrogate(s)					
Trifluorotoluene	95.0	53-125	%	03/15/2002 09:20	
4-Bromofluorobenzene-FID	88.9	58-124	%	03/15/2002 09:20	

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/15-01.03**

LCS: 2002/03/15-01.03-004 Extracted: 03/15/2002 09:50 Analyzed: 03/15/2002 09:50

LCSD: 2002/03/15-01.03-005 Extracted: 03/15/2002 10:21 Analyzed: 03/15/2002 10:21

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0911	0.0850	0.1000	0.1000	91.1	85.0	6.9	77-123	35		
Toluene	0.0871	0.0820	0.1000	0.1000	87.1	82.0	6.0	78-122	35		
Ethyl benzene	0.0858	0.0817	0.1000	0.1000	85.8	81.7	4.9	70-130	35		
Xylene(s)	0.256	0.246	0.300	0.300	85.3	82.0	3.9	75-125	35		
Surrogate(s)											
Trifluorotoluene	440	406	500	500	88.0	81.2		53-125			

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/15-01.03**

LCS: 2002/03/15-01.03-006 Extracted: 03/15/2002 10:52 Analyzed: 03/15/2002 10:52

LCSD: 2002/03/15-01.03-007 Extracted: 03/15/2002 11:23 Analyzed: 03/15/2002 11:23

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.452	0.447	0.500	0.500	90.4	89.4	1.1	75-125	35		
Surrogate(s)											
4-Bromofluorobenzene	408	400	500	500	81.6	80.0		58-124			

Submission #: 2002-03-0114

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SS-1@ 0-.5`	Soil	03/06/2002 08:00	1
SS-2@ 0-.5`	Soil	03/06/2002 08:00	3
SS-3@0-.5`	Soil	03/06/2002 08:30	5
SS-4@0-.5`	Soil	03/06/2002 09:00	7
SS-5@0-.5`	Soil	03/06/2002 09:00	9
SS-6@ 0-.5`	Soil	03/06/2002 09:30	11
SS-7@ 0-.5`	Soil	03/06/2002 10:00	13
SS-8@0-.5`	Soil	03/06/2002 10:30	15
SS-8@7.5-8`	Soil	03/06/2002 10:30	16
SS-9@0-.5`	Soil	03/06/2002 11:00	17
SS-10@ 0-.5`	Soil	03/06/2002 11:00	19
SS-10@4-4.5`	Soil	03/06/2002 11:00	20
SS-11@ 3.5-4`	Soil	03/06/2002 11:30	22
SS-12@4.5-5`	Soil	03/06/2002 12:00	24
SS-13@0-.5`	Soil	03/06/2002 12:00	25
SS-13@3.5-4`	Soil	03/06/2002 12:00	26

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Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**SS-1@ 0-.5`**	Lab Sample ID:	2002-03-0114-001
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/15/2002 14:11
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/15-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/15/2002 14:11	
Benzene	ND	0.0050	mg/Kg	1.00	03/15/2002 14:11	
Toluene	ND	0.0050	mg/Kg	1.00	03/15/2002 14:11	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/15/2002 14:11	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/15/2002 14:11	
MTBE	ND	0.0050	mg/Kg	1.00	03/15/2002 14:11	
Surrogate(s)						
Trifluorotoluene	62.6	53-125	%	1.00	03/15/2002 14:11	
Trifluorotoluene-FID	62.5	53-125	%	1.00	03/15/2002 14:11	

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Attn: Mark Arniola

Test Method: 8021B
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Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**SS-2@ 0-.5'**	Lab Sample ID:	2002-03-0114-003
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 17:57
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/11-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/11/2002 17:57	
Benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 17:57	
Toluene	ND	0.0050	mg/Kg	1.00	03/11/2002 17:57	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 17:57	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/11/2002 17:57	
MTBE	ND	0.0050	mg/Kg	1.00	03/11/2002 17:57	
Surrogate(s)						
Trifluorotoluene	77.3	53-125	%	1.00	03/11/2002 17:57	
Trifluorotoluene-FID	68.5	53-125	%	1.00	03/11/2002 17:57	

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Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5035

Sample ID:	**SS-3@0-.5`**	Lab Sample ID:	2002-03-0114-005
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 18:27
Sampled:	03/06/2002 08:30	QC-Batch:	2002/03/11-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/11/2002 18:27	
Benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 18:27	
Toluene	ND	0.0050	mg/Kg	1.00	03/11/2002 18:27	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 18:27	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/11/2002 18:27	
MTBE	ND	0.0050	mg/Kg	1.00	03/11/2002 18:27	
Surrogate(s)						
Trifluorotoluene	98.6	53-125	%	1.00	03/11/2002 18:27	
4-Bromofluorobenzene-FID	85.3	58-124	%	1.00	03/11/2002 18:27	

Submission #: 2002-03-0114

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Attn: Mark Arniola

Test Method: 8021B
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Prep Method: 5035

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Sample ID:	**SS-4@0-.5'**	Lab Sample ID:	2002-03-0114-007
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 18:58
Sampled:	03/06/2002 09:00	QC-Batch:	2002/03/11-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/11/2002 18:58	
Benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 18:58	
Toluene	ND	0.0050	mg/Kg	1.00	03/11/2002 18:58	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 18:58	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/11/2002 18:58	
MTBE	ND	0.0050	mg/Kg	1.00	03/11/2002 18:58	
Surrogate(s)						
Trifluorotoluene	84.8	53-125	%	1.00	03/11/2002 18:58	
Trifluorotoluene-FID	82.0	53-125	%	1.00	03/11/2002 18:58	

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Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5035

Sample ID: **SS-5@0-.5`**
Project: 1424-9B
Powell St.

Sampled: 03/06/2002 09:00
Matrix: Soil

Lab Sample ID: 2002-03-0114-009
Received: 03/06/2002 16:10

Extracted: 03/12/2002 13:04
QC-Batch: 2002/03/12-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/12/2002 13:04	
Benzene	ND	0.0050	mg/Kg	1.00	03/12/2002 13:04	
Toluene	ND	0.0050	mg/Kg	1.00	03/12/2002 13:04	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/12/2002 13:04	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/12/2002 13:04	
MTBE	ND	0.0050	mg/Kg	1.00	03/12/2002 13:04	
Surrogate(s)						
Trifluorotoluene	76.4	53-125	%	1.00	03/12/2002 13:04	
Trifluorotoluene-FID	73.8	53-125	%	1.00	03/12/2002 13:04	

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Attn: Mark Arniola

Test Method: 8021B
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Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**SS-6@ 0-.5'**	Lab Sample ID:	2002-03-0114-011
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 19:29
Sampled:	03/06/2002 09:30	QC-Batch:	2002/03/11-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/11/2002 19:29	
Benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 19:29	
Toluene	ND	0.0050	mg/Kg	1.00	03/11/2002 19:29	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 19:29	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/11/2002 19:29	
MTBE	ND	0.0050	mg/Kg	1.00	03/11/2002 19:29	
Surrogate(s)						
Trifluorotoluene	79.5	53-125	%	1.00	03/11/2002 19:29	
Trifluorotoluene-FID	73.4	53-125	%	1.00	03/11/2002 19:29	

Submission #: 2002-03-0114

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Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5035

Sample ID:	**SS-7@ 0-.5`**	Lab Sample ID:	2002-03-0114-013
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 19:59
Sampled:	03/06/2002 10:00	QC-Batch:	2002/03/11-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/11/2002 19:59	
Benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 19:59	
Toluene	ND	0.0050	mg/Kg	1.00	03/11/2002 19:59	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 19:59	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/11/2002 19:59	
MTBE	ND	0.0050	mg/Kg	1.00	03/11/2002 19:59	
Surrogate(s)						
Trifluorotoluene	102.7	53-125	%	1.00	03/11/2002 19:59	
4-Bromofluorobenzene-FID	89.6	58-124	%	1.00	03/11/2002 19:59	

Submission #: 2002-03-0114

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Gas/BTEX Compounds by 8015M/8021

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Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5035

Sample ID:	**SS-8@0-.5`**	Lab Sample ID:	2002-03-0114-015
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/15/2002 13:09
Sampled:	03/06/2002 10:30	QC-Batch:	2002/03/15-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/15/2002 13:09	
Benzene	ND	0.0050	mg/Kg	1.00	03/15/2002 13:09	
Toluene	ND	0.0050	mg/Kg	1.00	03/15/2002 13:09	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/15/2002 13:09	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/15/2002 13:09	
MTBE	ND	0.0050	mg/Kg	1.00	03/15/2002 13:09	
Surrogate(s)						
Trifluorotoluene	80.6	53-125	%	1.00	03/15/2002 13:09	
4-Bromofluorobenzene-FID	66.5	58-124	%	1.00	03/15/2002 13:09	

Submission #: 2002-03-0114

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Gas/BTEX Compounds by 8015M/8021

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Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5035

Sample ID:	**SS-8@7.5-8`**	Lab Sample ID:	2002-03-0114-016
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/13/2002 13:32
Sampled:	03/06/2002 10:30	QC-Batch:	2002/03/13-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	7.5	1.0	mg/Kg	1.00	03/13/2002 13:32	g
Benzene	ND	0.0050	mg/Kg	1.00	03/13/2002 13:32	
Toluene	ND	0.0050	mg/Kg	1.00	03/13/2002 13:32	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/13/2002 13:32	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/13/2002 13:32	
MTBE	ND	0.0050	mg/Kg	1.00	03/13/2002 13:32	
Surrogate(s)						
Trifluorotoluene	141.6	53-125	%	1.00	03/13/2002 13:32	sh
4-Bromofluorobenzene-FID	162.4	58-124	%	1.00	03/13/2002 13:32	sh

Submission #: 2002-03-0114

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Test Method: 8021B
8015M

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**SS-9@0-.5'**	Lab Sample ID:	2002-03-0114-017
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 20:30
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/11-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/11/2002 20:30	
Benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 20:30	
Toluene	ND	0.0050	mg/Kg	1.00	03/11/2002 20:30	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 20:30	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/11/2002 20:30	
MTBE	ND	0.0050	mg/Kg	1.00	03/11/2002 20:30	
Surrogate(s)						
Trifluorotoluene	91.4	53-125	%	1.00	03/11/2002 20:30	
4-Bromofluorobenzene-FID	80.1	58-124	%	1.00	03/11/2002 20:30	

Submission #: 2002-03-0114

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Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5035

Sample ID: **SS-10@ 0-.5`**
Project: 1424-9B
Powell St.

Sampled: 03/06/2002 11:00
Matrix: Soil

Lab Sample ID: 2002-03-0114-019
Received: 03/06/2002 16:10

Extracted: 03/15/2002 13:40
QC-Batch: 2002/03/15-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/15/2002 13:40	
Benzene	ND	0.0050	mg/Kg	1.00	03/15/2002 13:40	
Toluene	ND	0.0050	mg/Kg	1.00	03/15/2002 13:40	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/15/2002 13:40	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/15/2002 13:40	
MTBE	ND	0.0050	mg/Kg	1.00	03/15/2002 13:40	
Surrogate(s)						
Trifluorotoluene	85.0	53-125	%	1.00	03/15/2002 13:40	
Trifluorotoluene-FID	80.6	53-125	%	1.00	03/15/2002 13:40	

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Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5035

Sample ID:	**SS-10@4-4.5'**	Lab Sample ID:	2002-03-0114-020
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 21:00
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/11-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/11/2002 21:00	
Benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 21:00	
Toluene	ND	0.0050	mg/Kg	1.00	03/11/2002 21:00	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 21:00	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/11/2002 21:00	
MTBE	ND	0.0050	mg/Kg	1.00	03/11/2002 21:00	
Surrogate(s)						
Trifluorotoluene	88.7	53-125	%	1.00	03/11/2002 21:00	
4-Bromofluorobenzene-FID	65.8	58-124	%	1.00	03/11/2002 21:00	

Submission #: 2002-03-0114

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Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**SS-11@ 3.5-4'**	Lab Sample ID:	2002-03-0114-022
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/12/2002 13:35
Sampled:	03/06/2002 11:30	QC-Batch:	2002/03/12-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/12/2002 13:35	
Benzene	ND	0.0050	mg/Kg	1.00	03/12/2002 13:35	
Toluene	ND	0.0050	mg/Kg	1.00	03/12/2002 13:35	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/12/2002 13:35	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/12/2002 13:35	
MTBE	ND	0.0050	mg/Kg	1.00	03/12/2002 13:35	
Surrogate(s)						
Trifluorotoluene	96.1	53-125	%	1.00	03/12/2002 13:35	
4-Bromofluorobenzene-FID	87.2	58-124	%	1.00	03/12/2002 13:35	

Submission #: 2002-03-0114

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Test Method: 8021B
8015M

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**SS-12@4.5-5'**	Lab Sample ID:	2002-03-0114-024
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 22:01
Sampled:	03/06/2002 12:00	QC-Batch:	2002/03/11-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/11/2002 22:01	
Benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 22:01	
Toluene	ND	0.0050	mg/Kg	1.00	03/11/2002 22:01	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 22:01	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/11/2002 22:01	
MTBE	ND	0.0050	mg/Kg	1.00	03/11/2002 22:01	
Surrogate(s)						
Trifluorotoluene	82.5	53-125	%	1.00	03/11/2002 22:01	
4-Bromofluorobenzene-FID	70.8	58-124	%	1.00	03/11/2002 22:01	

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5035

Sample ID:	**SS-13@0-.5`**	Lab Sample ID:	2002-03-0114-025
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 22:32
Sampled:	03/06/2002 12:00	QC-Batch:	2002/03/11-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/11/2002 22:32	
Benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 22:32	
Toluene	ND	0.0050	mg/Kg	1.00	03/11/2002 22:32	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 22:32	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/11/2002 22:32	
MTBE	ND	0.0050	mg/Kg	1.00	03/11/2002 22:32	
Surrogate(s)						
Trifluorotoluene	88.5	53-125	%	1.00	03/11/2002 22:32	
4-Bromofluorobenzene-FID	64.7	58-124	%	1.00	03/11/2002 22:32	

Submission #: 2002-03-0114

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Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: **SS-13@3.5-4**
Project: 1424-9B
Powell St.

Sampled: 03/06/2002 12:00
Matrix: Soil

Lab Sample ID: 2002-03-0114-026
Received: 03/06/2002 16:10

Extracted: 03/11/2002 23:03
QC-Batch: 2002/03/11-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/11/2002 23:03	
Benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 23:03	
Toluene	ND	0.0050	mg/Kg	1.00	03/11/2002 23:03	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/11/2002 23:03	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/11/2002 23:03	
MTBE	ND	0.0050	mg/Kg	1.00	03/11/2002 23:03	
Surrogate(s)						
Trifluorotoluene	88.0	53-125	%	1.00	03/11/2002 23:03	
Trifluorotoluene-FID	82.1	53-125	%	1.00	03/11/2002 23:03	

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5035

Method Blank **Soil** **QC Batch # 2002/03/11-01.03**

MB: 2002/03/11-01.03-003 Date Extracted: 03/11/2002 08:33

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	03/11/2002 08:33	
Benzene	ND	0.0050	mg/Kg	03/11/2002 08:33	
Toluene	ND	0.0050	mg/Kg	03/11/2002 08:33	
Ethyl benzene	ND	0.0050	mg/Kg	03/11/2002 08:33	
Xylene(s)	ND	0.0050	mg/Kg	03/11/2002 08:33	
MTBE	ND	0.0050	mg/Kg	03/11/2002 08:33	
Surrogate(s)					
Trifluorotoluene	119.6	53-125	%	03/11/2002 08:33	
4-Bromofluorobenzene-FID	83.6	58-124	%	03/11/2002 08:33	

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5035

Method Blank **Soil** **QC Batch # 2002/03/12-01.03**

MB: 2002/03/12-01.03-003 Date Extracted: 03/12/2002 09:10

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	03/12/2002 09:10	
Benzene	ND	0.0050	mg/Kg	03/12/2002 09:10	
Toluene	ND	0.0050	mg/Kg	03/12/2002 09:10	
Ethyl benzene	ND	0.0050	mg/Kg	03/12/2002 09:10	
Xylene(s)	ND	0.0050	mg/Kg	03/12/2002 09:10	
MTBE	ND	0.0050	mg/Kg	03/12/2002 09:10	
Surrogate(s)					
Trifluorotoluene	95.4	53-125	%	03/12/2002 09:10	
4-Bromofluorobenzene-FID	96.2	58-124	%	03/12/2002 09:10	

Submission #: 2002-03-0114

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5035

Method Blank **Soil** **QC Batch # 2002/03/13-01.03**

MB: 2002/03/13-01.03-003 Date Extracted: 03/13/2002 09:01

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	03/13/2002 09:01	
Benzene	ND	0.0050	mg/Kg	03/13/2002 09:01	
Toluene	ND	0.0050	mg/Kg	03/13/2002 09:01	
Ethyl benzene	ND	0.0050	mg/Kg	03/13/2002 09:01	
Xylene(s)	ND	0.0050	mg/Kg	03/13/2002 09:01	
MTBE	ND	0.0050	mg/Kg	03/13/2002 09:01	
Surrogate(s)					
Trifluorotoluene	96.7	53-125	%	03/13/2002 09:01	
4-Bromofluorobenzene-FID	94.5	58-124	%	03/13/2002 09:01	

Submission #: 2002-03-0114

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5035

Method Blank **Soil** **QC Batch # 2002/03/15-01.03**

MB: 2002/03/15-01.03-003 Date Extracted: 03/15/2002 09:20

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	03/15/2002 09:20	
Benzene	ND	0.0050	mg/Kg	03/15/2002 09:20	
Toluene	ND	0.0050	mg/Kg	03/15/2002 09:20	
Ethyl benzene	ND	0.0050	mg/Kg	03/15/2002 09:20	
Xylene(s)	ND	0.0050	mg/Kg	03/15/2002 09:20	
MTBE	ND	0.0050	mg/Kg	03/15/2002 09:20	
Surrogate(s)					
Trifluorotoluene	95.0	53-125	%	03/15/2002 09:20	
4-Bromofluorobenzene-FID	88.9	58-124	%	03/15/2002 09:20	

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/11-01.03**

LCS: 2002/03/11-01.03-006 Extracted: 03/11/2002 10:05 Analyzed: 03/11/2002 10:05

LCSD: 2002/03/11-01.03-007 Extracted: 03/11/2002 10:36 Analyzed: 03/11/2002 10:36

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.442	0.454	0.500	0.500	88.4	90.8	2.7	75-125	35		
Surrogate(s)											
4-Bromofluorobenzene	409	422	500	500	81.8	84.4		58-124			

Submission #: 2002-03-0114

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/11-01.03**

LCS: 2002/03/11-01.03-013 Extracted: 03/11/2002 14:10 Analyzed: 03/11/2002 14:10

LCSD: 2002/03/11-01.03-005 Extracted: 03/11/2002 09:34 Analyzed: 03/11/2002 09:34

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0970	0.0867	0.1000	0.1000	97.0	86.7	11.2	77-123	35		
Toluene	0.0926	0.0850	0.1000	0.1000	92.6	85.0	8.6	78-122	35		
Ethyl benzene	0.0910	0.0839	0.1000	0.1000	91.0	83.9	8.1	70-130	35		
Xylene(s)	0.270	0.252	0.300	0.300	90.0	84.0	6.9	75-125	35		
Surrogate(s)											
Trifluorotoluene	471	429	500	500	94.2	85.8		53-125			

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/12-01.03**

LCS: 2002/03/12-01.03-004 Extracted: 03/12/2002 09:41 Analyzed: 03/12/2002 09:41

LCSD: 2002/03/12-01.03-005 Extracted: 03/12/2002 10:12 Analyzed: 03/12/2002 10:12

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0928	0.0907	0.1000	0.100	92.8	90.7	2.3	77-123	35		
Toluene	0.0898	0.0880	0.1000	0.1000	89.8	88.0	2.0	78-122	35		
Ethyl benzene	0.0884	0.0893	0.1000	0.1000	88.4	89.3	1.0	70-130	35		
Xylene(s)	0.265	0.268	0.300	0.300	88.3	89.3	1.1	75-125	35		
Surrogate(s)											
Trifluorotoluene	448	429	500	500	89.6	85.8		53-125			

Submission #: 2002-03-0114

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/12-01.03**

LCS: 2002/03/12-01.03-006 Extracted: 03/12/2002 10:42 Analyzed: 03/12/2002 10:42

LCSD: 2002/03/12-01.03-007 Extracted: 03/12/2002 11:13 Analyzed: 03/12/2002 11:13

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.479	0.453	0.500	0.500	95.8	90.6	5.6	75-125	35		
Surrogate(s)											
4-Bromofluorobenzene	441	418	500	500	88.2	83.6		58-124			

Submission #: 2002-03-0114

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/13-01.03**

LCS: 2002/03/13-01.03-004 Extracted: 03/13/2002 09:32 Analyzed: 03/13/2002 09:32

LCSD: 2002/03/13-01.03-005 Extracted: 03/13/2002 10:03 Analyzed: 03/13/2002 10:03

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0922	0.0915	0.1000	0.1000	92.2	91.5	0.8	77-123	35		
Toluene	0.0886	0.0886	0.1000	0.1000	88.6	88.6	0.0	78-122	35		
Ethyl benzene	0.0877	0.0888	0.1000	0.1000	87.7	88.8	1.2	70-130	35		
Xylene(s)	0.262	0.268	0.300	0.300	87.3	89.3	2.3	75-125	35		
Surrogate(s)											
Trifluorotoluene	456	441	500	500	91.2	88.2		53-125			

Submission #: 2002-03-0114

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/13-01.03**

LCS: 2002/03/13-01.03-006 Extracted: 03/13/2002 10:33 Analyzed: 03/13/2002 10:33

LCSD: 2002/03/13-01.03-007 Extracted: 03/13/2002 11:04 Analyzed: 03/13/2002 11:04

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.458	0.446	0.500	0.500	91.6	89.2	2.7	75-125	35		
Surrogate(s)											
4-Bromofluorobenzene	440	419	500	500	88.0	83.8		58-124			

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/15-01.03**

LCS: 2002/03/15-01.03-004 Extracted: 03/15/2002 09:50 Analyzed: 03/15/2002 09:50

LCSD: 2002/03/15-01.03-005 Extracted: 03/15/2002 10:21 Analyzed: 03/15/2002 10:21

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0911	0.0850	0.1000	0.1000	91.1	85.0	6.9	77-123	35		
Toluene	0.0871	0.0820	0.1000	0.1000	87.1	82.0	6.0	78-122	35		
Ethyl benzene	0.0858	0.0817	0.1000	0.1000	85.8	81.7	4.9	70-130	35		
Xylene(s)	0.256	0.246	0.300	0.300	85.3	82.0	3.9	75-125	35		
Surrogate(s)											
Trifluorotoluene	440	406	500	500	88.0	81.2		53-125			

Submission #: 2002-03-0114

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/15-01.03**

LCS: 2002/03/15-01.03-006 Extracted: 03/15/2002 10:52 Analyzed: 03/15/2002 10:52

LCSD: 2002/03/15-01.03-007 Extracted: 03/15/2002 11:23 Analyzed: 03/15/2002 11:23

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.452	0.447	0.500	0.500	90.4	89.4	1.1	75-125	35		
Surrogate(s)											
4-Bromofluorobenzene	408	400	500	500	81.6	80.0		58-124			

Submission #: 2002-03-0114

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Gas/BTEX Compounds by 8015M/8021

Batch QC Report

Test Method: 8021B Prep Method: 5035

Matrix Spike (MS / MSD)	**Soil**	**QC Batch # 2002/03/12-01.03**
Sample ID: **SS-11@ 3.5-4` >> MS**		Lab ID: 2002-03-0114-022
MS: 2002/03/12-01.03-020	Extracted: 03/12/2002 18:21	Analyzed: 03/12/2002 18:21
		Dilution: 1
MSD: 2002/03/12-01.03-021	Extracted: 03/12/2002 18:51	Analyzed: 03/12/2002 18:51
		Dilution: 1

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Benzene	0.0892	0.0845	ND	0.0984	0.0977	90.7	86.5	4.7	65-135	35		
Toluene	0.0858	0.0820	ND	0.0984	0.0977	87.2	83.9	3.9	65-135	35		
Ethyl benzene	0.0834	0.0809	ND	0.0984	0.0977	84.8	82.8	2.4	65-135	35		
Xylene(s)	0.247	0.242	ND	0.300	0.293	82.3	82.6	0.4	65-135	35		
Surrogate(s)												
Trifluorotoluene	426	404		500	500	85.2	80.8		53-125			

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC Report

Test Method: 8015M Prep Method: 5035

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2002/03/12-01.03**

Sample ID: **SS-11@ 3.5-4` >> MS** Lab ID: 2002-03-0114-022

MS: 2002/03/12-01.03-022 Extracted: 03/12/2002 19:22 Analyzed: 03/12/2002 19:22
Dilution: 1

MSD: 2002/03/12-01.03-023 Extracted: 03/12/2002 19:52 Analyzed: 03/12/2002 19:52
Dilution: 1

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Gasoline	0.413	0.419	ND	0.490	0.492	84.3	85.2	1.1	65-135	35		
Surrogate(s)												
4-Bromofluoroben	362	380		500	500	72.4	76.0		58-124			

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Legend & Notes

Test Method: 8015M
8021B

Prep Method: 5035

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

Analyte Flags

sh

Surrogate recovery was higher than QC limit due to matrix interference.

Submission #: 2002-03-0114

Gas/BTEX Compounds (High Level)

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SS-1@3.5-4`	Soil	03/06/2002 08:00	2
SS-2@ 5-5.5`	Soil	03/06/2002 08:00	4
SS-3@3.5-4`	Soil	03/06/2002 08:30	6
SS-4@3.5-4`	Soil	03/06/2002 09:00	8
SS-5@7-7.5`	Soil	03/06/2002 09:00	10
SS-6@ 6.5-7`	Soil	03/06/2002 09:30	12
SS-7@ 6-6.5`	Soil	03/06/2002 10:00	14
SS-9@4.5-5`	Soil	03/06/2002 11:00	18
SS-11@ 0-.5`	Soil	03/06/2002 11:30	21

Submission #: 2002-03-0114

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Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**SS-1@3.5-4`**	Lab Sample ID:	2002-03-0114-002
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:14
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/11-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	110	10	mg/Kg	1.00	03/15/2002 12:14	g
Benzene	ND	0.62	mg/Kg	1.00	03/15/2002 12:14	
Toluene	ND	0.62	mg/Kg	1.00	03/15/2002 12:14	
Ethyl benzene	ND	0.62	mg/Kg	1.00	03/15/2002 12:14	
Xylene(s)	ND	0.62	mg/Kg	1.00	03/15/2002 12:14	
MTBE	ND	0.62	mg/Kg	1.00	03/15/2002 12:14	
Surrogate(s)						
Trifluorotoluene	102.3	53-125	%	1.00	03/15/2002 12:14	
4-Bromofluorobenzene-FID	176.4	58-124	%	1.00	03/15/2002 12:14	sh

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

Sample ID:	**SS-2@ 5-5.5`**	Lab Sample ID:	2002-03-0114-004
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 22:57
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/11-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	26	10	mg/Kg	1.00	03/12/2002 22:57	g
Benzene	ND	0.62	mg/Kg	1.00	03/12/2002 22:57	
Toluene	ND	0.62	mg/Kg	1.00	03/12/2002 22:57	
Ethyl benzene	ND	0.62	mg/Kg	1.00	03/12/2002 22:57	
Xylene(s)	ND	0.62	mg/Kg	1.00	03/12/2002 22:57	
MTBE	ND	0.62	mg/Kg	1.00	03/12/2002 22:57	
Surrogate(s)						
Trifluorotoluene	119.3	53-125	%	1.00	03/12/2002 22:57	
4-Bromofluorobenzene-FID	160.0	58-124	%	1.00	03/12/2002 22:57	sh

Submission #: 2002-03-0114

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Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**SS-3@3.5-4`**	Lab Sample ID:	2002-03-0114-006
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 23:27
Sampled:	03/06/2002 08:30	QC-Batch:	2002/03/11-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	210	100	mg/Kg	10.00	03/12/2002 23:27	g
Benzene	ND	6.2	mg/Kg	10.00	03/12/2002 23:27	
Toluene	ND	6.2	mg/Kg	10.00	03/12/2002 23:27	
Ethyl benzene	ND	6.2	mg/Kg	10.00	03/12/2002 23:27	
Xylene(s)	ND	6.2	mg/Kg	10.00	03/12/2002 23:27	
MTBE	ND	6.2	mg/Kg	10.00	03/12/2002 23:27	
Surrogate(s)						
Trifluorotoluene	NA	53-125	%	1.00	03/12/2002 23:27	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	03/12/2002 23:27	sd

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Amiola

Test Method: 8021B
8015M

Prep Method: 5030

Sample ID:	**SS-4@3.5-4`**	Lab Sample ID:	2002-03-0114-008
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 12:44
Sampled:	03/06/2002 09:00	QC-Batch:	2002/03/11-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	110	10	mg/Kg	1.00	03/15/2002 12:44	g
Benzene	ND	0.62	mg/Kg	1.00	03/15/2002 12:44	
Toluene	ND	0.62	mg/Kg	1.00	03/15/2002 12:44	
Ethyl benzene	ND	0.62	mg/Kg	1.00	03/15/2002 12:44	
Xylene(s)	ND	0.62	mg/Kg	1.00	03/15/2002 12:44	
MTBE	ND	0.62	mg/Kg	1.00	03/15/2002 12:44	
Surrogate(s)						
Trifluorotoluene	98.6	53-125	%	1.00	03/15/2002 12:44	
4-Bromofluorobenzene-FID	187.0	58-124	%	1.00	03/15/2002 12:44	sh

Submission #: 2002-03-0114

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Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**SS-5@7-7.5'**	Lab Sample ID:	2002-03-0114-010
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 01:00
Sampled:	03/06/2002 09:00	QC-Batch:	2002/03/11-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	210	10	mg/Kg	1.00	03/13/2002 01:00	g
Benzene	ND	0.62	mg/Kg	1.00	03/13/2002 01:00	
Toluene	ND	0.62	mg/Kg	1.00	03/13/2002 01:00	
Ethyl benzene	ND	0.62	mg/Kg	1.00	03/13/2002 01:00	
Xylene(s)	ND	0.62	mg/Kg	1.00	03/13/2002 01:00	
MTBE	ND	0.62	mg/Kg	1.00	03/13/2002 01:00	
Surrogate(s)						
Trifluorotoluene	193.0	53-125	%	1.00	03/13/2002 01:00	sh
4-Bromofluorobenzene-FID	258.0	58-124	%	1.00	03/13/2002 01:00	sh

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

Sample ID:	**SS-6@ 6.5-7'**	Lab Sample ID:	2002-03-0114-012
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 13:13
Sampled:	03/06/2002 09:30	QC-Batch:	2002/03/11-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	67	10	mg/Kg	1.00	03/15/2002 13:13	g
Benzene	ND	0.62	mg/Kg	1.00	03/15/2002 13:13	
Toluene	ND	0.62	mg/Kg	1.00	03/15/2002 13:13	
Ethyl benzene	ND	0.62	mg/Kg	1.00	03/15/2002 13:13	
Xylene(s)	ND	0.62	mg/Kg	1.00	03/15/2002 13:13	
MTBE	ND	0.62	mg/Kg	1.00	03/15/2002 13:13	
Surrogate(s)						
Trifluorotoluene	100.3	53-125	%	1.00	03/15/2002 13:13	
4-Bromofluorobenzene-FID	176.0	58-124	%	1.00	03/15/2002 13:13	sh

Submission #: 2002-03-0114

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Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**SS-7@ 6-6.5**	Lab Sample ID:	2002-03-0114-014
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 02:01
Sampled:	03/06/2002 10:00	QC-Batch:	2002/03/11-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	260	10	mg/Kg	1.00	03/13/2002 02:01	g
Benzene	ND	0.62	mg/Kg	1.00	03/13/2002 02:01	
Toluene	ND	0.62	mg/Kg	1.00	03/13/2002 02:01	
Ethyl benzene	ND	0.62	mg/Kg	1.00	03/13/2002 02:01	
Xylene(s)	ND	0.62	mg/Kg	1.00	03/13/2002 02:01	
MTBE	ND	0.62	mg/Kg	1.00	03/13/2002 02:01	
Surrogate(s)						
Trifluorotoluene	178.0	53-125	%	1.00	03/13/2002 02:01	sh
4-Bromofluorobenzene-FID	261.0	58-124	%	1.00	03/13/2002 02:01	sh

Submission #: 2002-03-0114

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Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

Sample ID:	**SS-9@4.5-5'**	Lab Sample ID:	2002-03-0114-018
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 03:03
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/11-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	110	10	mg/Kg	1.00	03/13/2002 03:03	g
Benzene	ND	0.62	mg/Kg	1.00	03/13/2002 03:03	
Toluene	ND	0.62	mg/Kg	1.00	03/13/2002 03:03	
Ethyl benzene	ND	0.62	mg/Kg	1.00	03/13/2002 03:03	
Xylene(s)	ND	0.62	mg/Kg	1.00	03/13/2002 03:03	
MTBE	ND	0.62	mg/Kg	1.00	03/13/2002 03:03	
Surrogate(s)						
Trifluorotoluene	158.0	53-125	%	1.00	03/13/2002 03:03	sh
4-Bromofluorobenzene-FID	208.0	58-124	%	1.00	03/13/2002 03:03	sh

Submission #: 2002-03-0114

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Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**SS-11@ 0-.5'**	Lab Sample ID:	2002-03-0114-021
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 03:34
Sampled:	03/06/2002 11:30	QC-Batch:	2002/03/11-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	300	100	mg/Kg	10.00	03/13/2002 03:34	g
Benzene	ND	6.2	mg/Kg	10.00	03/13/2002 03:34	
Toluene	ND	6.2	mg/Kg	10.00	03/13/2002 03:34	
Ethyl benzene	ND	6.2	mg/Kg	10.00	03/13/2002 03:34	
Xylene(s)	ND	6.2	mg/Kg	10.00	03/13/2002 03:34	
MTBE	ND	6.2	mg/Kg	10.00	03/13/2002 03:34	
Surrogate(s)						
Trifluorotoluene	NA	53-125	%	1.00	03/13/2002 03:34	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	03/13/2002 03:34	sd

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5030

Method Blank **Soil** **QC Batch # 2002/03/11-05.03**

MB: 2002/03/11-05.03-001 Date Extracted: 03/08/2002 11:07

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	10	mg/Kg	03/11/2002 11:07	
Benzene	ND	0.62	mg/Kg	03/11/2002 11:07	
Toluene	ND	0.62	mg/Kg	03/11/2002 11:07	
Ethyl benzene	ND	0.62	mg/Kg	03/11/2002 11:07	
Xylene(s)	ND	0.62	mg/Kg	03/11/2002 11:07	
MTBE	ND	0.62	mg/Kg	03/11/2002 11:07	
Surrogate(s)					
Trifluorotoluene	110.0	53-125	%	03/11/2002 11:07	
4-Bromofluorobenzene-FID	93.5	58-124	%	03/11/2002 11:07	

Submission #: 2002-03-0114

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Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/11-05.03**

LCS: 2002/03/11-05.03-002 Extracted: 03/08/2002 11:37 Analyzed: 03/11/2002 11:37

LCSD: 2002/03/11-05.03-003 Extracted: 03/08/2002 12:29 Analyzed: 03/11/2002 12:29

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.655	0.637	0.625	0.625	104.8	101.9	2.8	75-125	35		
Benzene	0.120	0.131	0.125	0.125	96.0	104.8	8.8	77-123	35		
Toluene	0.120	0.130	0.125	0.125	96.0	104.0	8.0	78-122	35		
Ethyl benzene	0.117	0.125	0.125	0.125	93.6	100.0	6.6	70-130	35		
Xylene(s)	0.358	0.386	0.375	0.375	95.5	102.9	7.5	75-125	35		
Surrogate(s)											
Trifluorotoluene	98.4	106	100	100	98.4	106.0		53-125	0		
4-Bromofluorobenzene	88.0	87.9	100	100	88.0	87.9		58-124	0		

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Legend & Notes

Test Method: 8021B
8015M

Prep Method: 5030

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

Analyte Flags

sd

Surrogate recovery not reportable due to required dilution.

Analyte Flags

sh

Surrogate recovery was higher than QC limit due to matrix interference.

Submission #: 2002-03-0114

Metals

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SS-2@ 0-.5`	Soil	03/06/2002 08:00	3
SS-2@ 5-5.5`	Soil	03/06/2002 08:00	4
SS-6@ 0-.5`	Soil	03/06/2002 09:30	11
SS-6@ 6.5-7`	Soil	03/06/2002 09:30	12
SS-7@ 0-.5`	Soil	03/06/2002 10:00	13
SS-7@ 6-6.5`	Soil	03/06/2002 10:00	14
SS-10@ 0-.5`	Soil	03/06/2002 11:00	19
SS-10@4-4.5`	Soil	03/06/2002 11:00	20
SS-11@ 0-.5`	Soil	03/06/2002 11:30	21
SS-11@ 3.5-4`	Soil	03/06/2002 11:30	22

Submission #: 2002-03-0114

SEVERN TRENT SERVICES

Metals

Lowney & Associates Oakland

Attn: Mark Amiola

Test Method: 6010B
7471A

Prep Method: 3050B
7471A

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CA DHS ELAP#1094

Sample ID:	**SS-2@ 0-.5`**	Lab Sample ID:	2002-03-0114-003
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 06:12
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/11-01.15 2002/03/11-01.16
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Arsenic	3.7	1.0	mg/Kg	1.00	03/11/2002 09:54	
Cadmium	2.0	0.50	mg/Kg	1.00	03/11/2002 09:54	
Lead	32	1.0	mg/Kg	1.00	03/11/2002 09:54	
Mercury	0.12	0.050	mg/Kg	1.00	03/11/2002 13:21	

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B
7471A

Prep Method: 3050B
7471A

Sample ID: **SS-2@ 5-5.5`**
Project: 1424-9B
Powell St.

Sampled: 03/06/2002 08:00

Matrix: Soil

Lab Sample ID: 2002-03-0114-004
Received: 03/06/2002 16:10

Extracted: 03/11/2002 06:12
QC-Batch: 2002/03/11-01.15
2002/03/11-01.16

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Arsenic	2.7	1.0	mg/Kg	1.00	03/11/2002 09:57	
Cadmium	1.3	0.50	mg/Kg	1.00	03/11/2002 09:57	
Lead	5.6	1.0	mg/Kg	1.00	03/11/2002 09:57	
Mercury	ND	0.050	mg/Kg	1.00	03/11/2002 13:25	

Submission #: 2002-03-0114

SEVERN TRENT SERVICES

Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B
7471A

Prep Method: 3050B
7471A

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CA DHS ELAP#1094

Sample ID:	**SS-6@ 0-.5`**	Lab Sample ID:	2002-03-0114-011
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 06:12
Sampled:	03/06/2002 09:30	QC-Batch:	2002/03/11-01.16 2002/03/11-01.15
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Arsenic	2.8	1.0	mg/Kg	1.00	03/11/2002 10:19	
Cadmium	2.0	0.50	mg/Kg	1.00	03/11/2002 10:19	
Lead	18	1.0	mg/Kg	1.00	03/11/2002 10:19	
Mercury	0.090	0.050	mg/Kg	1.00	03/11/2002 13:26	

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B
7471A

Prep Method: 3050B
7471A

Sample ID:	**SS-6@ 6.5-7`**	Lab Sample ID:	2002-03-0114-012
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 06:12
Sampled:	03/06/2002 09:30	QC-Batch:	2002/03/11-01.16 2002/03/11-01.15
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Arsenic	1.8	1.0	mg/Kg	1.00	03/11/2002 10:23	
Cadmium	2.4	0.50	mg/Kg	1.00	03/11/2002 10:23	
Lead	5.6	1.0	mg/Kg	1.00	03/11/2002 10:23	
Mercury	ND	0.050	mg/Kg	1.00	03/11/2002 13:27	

Submission #: 2002-03-0114

SEVERN TRENT SERVICES

Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B
7471A

Prep Method: 3050B
7471A

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CA DHS ELAP#1094

Sample ID:	**SS-7@ 0-.5`**	Lab Sample ID:	2002-03-0114-013
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 06:12
Sampled:	03/06/2002 10:00	QC-Batch:	2002/03/11-01.15 2002/03/11-01.16
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Arsenic	18	1.0	mg/Kg	1.00	03/11/2002 10:27	
Cadmium	3.4	0.50	mg/Kg	1.00	03/11/2002 10:27	
Lead	25	1.0	mg/Kg	1.00	03/11/2002 10:27	
Mercury	0.43	0.050	mg/Kg	1.00	03/11/2002 13:28	

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B
7471A

Prep Method: 3050B
7471A

Sample ID:	**SS-7@ 6-6.5`**	Lab Sample ID:	2002-03-0114-014
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 06:12
Sampled:	03/06/2002 10:00	QC-Batch:	2002/03/11-01.16 2002/03/11-01.15
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Arsenic	2.7	1.0	mg/Kg	1.00	03/11/2002 10:31	
Cadmium	1.5	0.50	mg/Kg	1.00	03/11/2002 10:31	
Lead	5.0	1.0	mg/Kg	1.00	03/11/2002 10:31	
Mercury	ND	0.050	mg/Kg	1.00	03/11/2002 13:32	

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Attn: Mark Arniola

Test Method: 6010B
7471A

Prep Method: 3050B
7471A

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Sample ID:	**SS-10@ 0-.5'**	Lab Sample ID:	2002-03-0114-019
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 06:12
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/11-01.16 2002/03/11-01.15
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Arsenic	2.4	1.0	mg/Kg	1.00	03/11/2002 10:35	
Cadmium	1.9	0.50	mg/Kg	1.00	03/11/2002 10:35	
Lead	32	1.0	mg/Kg	1.00	03/11/2002 10:35	
Mercury	0.084	0.050	mg/Kg	1.00	03/11/2002 13:33	

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Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B
7471A

Prep Method: 3050B
7471A

Sample ID:	**SS-10@4-4.5`**	Lab Sample ID:	2002-03-0114-020
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 06:12
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/11-01.15 2002/03/11-01.16
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Arsenic	3.6	1.0	mg/Kg	1.00	03/11/2002 10:38	
Cadmium	1.9	0.50	mg/Kg	1.00	03/11/2002 10:38	
Lead	6.1	1.0	mg/Kg	1.00	03/11/2002 10:38	
Mercury	ND	0.050	mg/Kg	1.00	03/11/2002 13:35	

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Metals

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Attn: Mark Arniola

Test Method: 6010B
7471A

Prep Method: 3050B
7471A

Sample ID:	**SS-11@ 0-.5`**	Lab Sample ID:	2002-03-0114-021
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 06:12
Sampled:	03/06/2002 11:30	QC-Batch:	2002/03/11-01.15 2002/03/11-01.16
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Arsenic	1.8	1.0	mg/Kg	1.00	03/11/2002 10:42	
Cadmium	1.6	0.50	mg/Kg	1.00	03/11/2002 10:42	
Lead	14	1.0	mg/Kg	1.00	03/11/2002 10:42	
Mercury	0.056	0.050	mg/Kg	1.00	03/11/2002 13:36	

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Test Method: 6010B
7471A

Prep Method: 3050B
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Sample ID:	**SS-11@ 3.5-4'**	Lab Sample ID:	2002-03-0114-022
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 06:12
Sampled:	03/06/2002 11:30	QC-Batch:	2002/03/11-01.16 2002/03/11-01.15
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Arsenic	2.4	1.0	mg/Kg	1.00	03/11/2002 10:46	
Cadmium	1.3	0.50	mg/Kg	1.00	03/11/2002 10:46	
Lead	4.7	1.0	mg/Kg	1.00	03/11/2002 10:46	
Mercury	ND	0.050	mg/Kg	1.00	03/11/2002 13:37	

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Metals

Batch QC report

Test Method: 6010B Prep Method: 3050B

Method Blank **Soil** **QC Batch # 2002/03/11-01.15**

MB: 2002/03/11-01.15-031 Date Extracted: 03/11/2002 06:12

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Arsenic	ND	1.0	mg/Kg	03/11/2002 08:57	
Cadmium	ND	0.50	mg/Kg	03/11/2002 08:57	
Lead	ND	1.0	mg/Kg	03/11/2002 08:57	

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Metals

Batch QC report

Test Method: 7471A Prep Method: 7471A

Method Blank **Soil** **QC Batch # 2002/03/11-01.16**

MB: 2002/03/11-01.16-036 Date Extracted: 03/11/2002 06:13

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	03/11/2002 13:18	

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Metals

Batch QC report

Test Method: 6010B Prep Method: 3050B

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/11-01.15**

LCS: 2002/03/11-01.15-032 Extracted: 03/11/2002 06:12 Analyzed: 03/11/2002 09:02

LCSD: 2002/03/11-01.15-035 Extracted: 03/11/2002 06:12 Analyzed: 03/11/2002 09:24

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Arsenic	108	109	100.0	100.0	108.0	109.0	0.9	80-120	20		
Cadmium	102	103	100.0	100.0	102.0	103.0	1.0	80-120	20		
Lead	102	103	100.0	100.0	102.0	103.0	1.0	80-120	20		

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Metals

Batch QC report

Test Method: 7471A Prep Method: 7471A

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/11-01.16**

LCS: 2002/03/11-01.16-037 Extracted: 03/11/2002 06:13 Analyzed: 03/11/2002 13:19

LCSD: 2002/03/11-01.16-038 Extracted: 03/11/2002 06:13 Analyzed: 03/11/2002 13:20

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Mercury	0.514	0.490	0.500	0.500	102.8	98.0	4.8	85-115	20		

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Organochlorine Pesticides Analysis

Legend & Notes

Test Method: 8081 Prep Method: 3550/8081

Analyte Flags

s

One surrogate recovery out of control, but second surrogate within QC limits confirms test performance.

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Organochlorine Pesticides Analysis

Batch QC Report

Test Method: 8081 Prep Method: 3510/8081

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2002/03/07-01.13**

Sample ID: **SS-2@ 0-.5` >> MS** Lab ID: 2002-03-0114-003

MS: 2002/03/07-01.13-004 Extracted: 03/07/2002 13:33 Analyzed: 03/08/2002 13:29
Dilution: 5

MSD: 2002/03/07-01.13-005 Extracted: 03/07/2002 13:33 Analyzed: 03/08/2002 13:54
Dilution: 5

Compound	Conc. [ug/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Aldrin	15.1	15.0	ND	16.6	16.6	91.0	90.4	0.7	37-136	25		
Dieldrin	15.2	14.9	ND	16.6	16.6	91.6	89.8	2.0	58-135	35		
Endrin	14.7	14.5	ND	16.6	16.6	88.6	87.3	1.5	58-134	35		
Heptachlor	14.9	15.0	ND	16.6	16.6	89.8	90.4	0.7	40-136	20		
4,4`-DDT	15.9	15.5	ND	16.6	16.6	95.8	93.4	2.5	55-132	35		
gamma-BHC	15.2	15.0	ND	16.6	16.6	91.6	90.4	1.3	37-137	35		
Surrogate(s)												
2,4,5,6-Tetrachlor	46.1	45.1		50	50	92.2	90.3		50-125	0		
Decachlorobiphen	48.0	55.1		50	50	95.9	110.2		46-142	0		

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Organochlorine Pesticides Analysis

Batch QC report

Test Method: 8081 Prep Method: 3550/8081

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/07-01.13**

LCS: 2002/03/07-01.13-002 Extracted: 03/07/2002 13:33 Analyzed: 03/08/2002 12:39

LCSD: 2002/03/07-01.13-003 Extracted: 03/07/2002 13:33 Analyzed: 03/08/2002 13:04

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Aldrin	13.0	13.2	16.7	16.7	77.8	79.0	1.5	37-136	25		
Dieldrin	13.8	13.8	16.7	16.7	82.6	82.6	0.0	58-135	35		
Endrin	14.2	14.4	16.7	16.7	85.0	86.2	1.4	58-134	35		
Heptachlor	13.0	13.3	16.7	16.7	77.8	79.6	2.3	40-136	20		
4,4`-DDT	14.9	15.1	16.7	16.7	89.2	90.4	1.3	55-132	35		
gamma-BHC (Lindane)	13.1	13.1	16.7	16.7	78.4	78.4	0.0	37-137	35		

Submission #: 2002-03-0114

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Organochlorine Pesticides Analysis

Batch QC report

Test Method: 8081 Prep Method: 3550/8081

Method Blank	**Soil**	**QC Batch # 2002/03/07-01.13**
MB: 2002/03/07-01.13-001		Date Extracted: 03/07/2002 13:33

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	03/07/2002 19:18	
Dieldrin	ND	2.0	ug/Kg	03/07/2002 19:18	
Endrin aldehyde	ND	2.0	ug/Kg	03/07/2002 19:18	
Endrin	ND	2.0	ug/Kg	03/07/2002 19:18	
Endrin ketone	ND	2.0	ug/Kg	03/07/2002 19:18	
Heptachlor	ND	2.0	ug/Kg	03/07/2002 19:18	
Heptachlor epoxide	ND	2.0	ug/Kg	03/07/2002 19:18	
4,4`-DDT	ND	2.0	ug/Kg	03/07/2002 19:18	
4,4`-DDE	ND	2.0	ug/Kg	03/07/2002 19:18	
4,4`-DDD	ND	2.0	ug/Kg	03/07/2002 19:18	
Endosulfan I	ND	2.0	ug/Kg	03/07/2002 19:18	
Endosulfan II	ND	2.0	ug/Kg	03/07/2002 19:18	
alpha-BHC	ND	2.0	ug/Kg	03/07/2002 19:18	
beta-BHC	ND	2.0	ug/Kg	03/07/2002 19:18	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	03/07/2002 19:18	
delta-BHC	ND	2.0	ug/Kg	03/07/2002 19:18	
Endosulfan sulfate	ND	2.0	ug/Kg	03/07/2002 19:18	
4,4`-Methoxychlor	ND	2.0	ug/Kg	03/07/2002 19:18	
Toxaphene	ND	100	ug/Kg	03/07/2002 19:18	
Chlordane (Technical)	ND	50	ug/Kg	03/07/2002 19:18	
alpha-Chlordane	ND	2.0	ug/Kg	03/07/2002 19:18	
gamma-Chlordane	ND	2.0	ug/Kg	03/07/2002 19:18	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	98.4	50-125	%	03/07/2002 19:18	
Decachlorobiphenyl (Pest/8081)	101.5	46-142	%	03/07/2002 19:18	

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Organochlorine Pesticides Analysis

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Test Method: 8081
Prep Method: 3550/8081

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Sample ID:	**SS-11@ 3.5-4`**	Lab Sample ID:	2002-03-0114-022
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 13:33
Sampled:	03/06/2002 11:30	QC-Batch:	2002/03/07-01.13
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	10	ug/Kg	5.00	03/08/2002 18:30	
Dieldrin	ND	10	ug/Kg	5.00	03/08/2002 18:30	
Endrin aldehyde	ND	10	ug/Kg	5.00	03/08/2002 18:30	
Endrin	ND	10	ug/Kg	5.00	03/08/2002 18:30	
Endrin ketone	ND	10	ug/Kg	5.00	03/08/2002 18:30	
Heptachlor	ND	10	ug/Kg	5.00	03/08/2002 18:30	
Heptachlor epoxide	ND	10	ug/Kg	5.00	03/08/2002 18:30	
4,4`-DDT	ND	10	ug/Kg	5.00	03/08/2002 18:30	
4,4`-DDE	ND	10	ug/Kg	5.00	03/08/2002 18:30	
4,4`-DDD	ND	10	ug/Kg	5.00	03/08/2002 18:30	
Endosulfan I	ND	10	ug/Kg	5.00	03/08/2002 18:30	
Endosulfan II	ND	10	ug/Kg	5.00	03/08/2002 18:30	
alpha-BHC	ND	10	ug/Kg	5.00	03/08/2002 18:30	
beta-BHC	ND	10	ug/Kg	5.00	03/08/2002 18:30	
gamma-BHC (Lindane)	ND	10	ug/Kg	5.00	03/08/2002 18:30	
delta-BHC	ND	10	ug/Kg	5.00	03/08/2002 18:30	
Endosulfan sulfate	ND	10	ug/Kg	5.00	03/08/2002 18:30	
4,4`-Methoxychlor	ND	10	ug/Kg	5.00	03/08/2002 18:30	
Toxaphene	ND	500	ug/Kg	5.00	03/08/2002 18:30	
Chlordane (Technical)	ND	250	ug/Kg	5.00	03/08/2002 18:30	
alpha-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 18:30	
gamma-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 18:30	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	98.2	50-125	%	5.00	03/08/2002 18:30	
Decachlorobiphenyl (Pest/8081)	109.4	46-142	%	5.00	03/08/2002 18:30	

Submission #: 2002-03-0114

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Organochlorine Pesticides Analysis

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8081
Prep Method: 3550/8081

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CA DHS ELAP#1094

Sample ID:	**SS-11@ 0-.5`**	Lab Sample ID:	2002-03-0114-021
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 13:33
Sampled:	03/06/2002 11:30	QC-Batch:	2002/03/07-01.13
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	10	ug/Kg	5.00	03/08/2002 18:05	
Dieldrin	ND	10	ug/Kg	5.00	03/08/2002 18:05	
Endrin aldehyde	ND	10	ug/Kg	5.00	03/08/2002 18:05	
Endrin	ND	10	ug/Kg	5.00	03/08/2002 18:05	
Endrin ketone	ND	10	ug/Kg	5.00	03/08/2002 18:05	
Heptachlor	ND	10	ug/Kg	5.00	03/08/2002 18:05	
Heptachlor epoxide	ND	10	ug/Kg	5.00	03/08/2002 18:05	
4,4`-DDT	ND	10	ug/Kg	5.00	03/08/2002 18:05	
4,4`-DDE	ND	10	ug/Kg	5.00	03/08/2002 18:05	
4,4`-DDD	ND	10	ug/Kg	5.00	03/08/2002 18:05	
Endosulfan I	ND	10	ug/Kg	5.00	03/08/2002 18:05	
Endosulfan II	ND	10	ug/Kg	5.00	03/08/2002 18:05	
alpha-BHC	ND	10	ug/Kg	5.00	03/08/2002 18:05	
beta-BHC	ND	10	ug/Kg	5.00	03/08/2002 18:05	
gamma-BHC (Lindane)	ND	10	ug/Kg	5.00	03/08/2002 18:05	
delta-BHC	ND	10	ug/Kg	5.00	03/08/2002 18:05	
Endosulfan sulfate	ND	10	ug/Kg	5.00	03/08/2002 18:05	
4,4`-Methoxychlor	ND	10	ug/Kg	5.00	03/08/2002 18:05	
Toxaphene	ND	500	ug/Kg	5.00	03/08/2002 18:05	
Chlordane (Technical)	ND	250	ug/Kg	5.00	03/08/2002 18:05	
alpha-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 18:05	
gamma-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 18:05	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	102.6	50-125	%	5.00	03/08/2002 18:05	
Decachlorobiphenyl (Pest/8081)	175.8	46-142	%	5.00	03/08/2002 18:05	s

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Organochlorine Pesticides Analysis

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8081
Prep Method: 3550/8081

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CA DHS ELAP#1094

Sample ID:	**SS-10@4-4.5`**	Lab Sample ID:	2002-03-0114-020
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 13:33
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/07-01.13
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	10	ug/Kg	5.00	03/08/2002 17:40	
Dieldrin	ND	10	ug/Kg	5.00	03/08/2002 17:40	
Endrin aldehyde	ND	10	ug/Kg	5.00	03/08/2002 17:40	
Endrin	ND	10	ug/Kg	5.00	03/08/2002 17:40	
Endrin ketone	ND	10	ug/Kg	5.00	03/08/2002 17:40	
Heptachlor	ND	10	ug/Kg	5.00	03/08/2002 17:40	
Heptachlor epoxide	ND	10	ug/Kg	5.00	03/08/2002 17:40	
4,4`-DDT	ND	10	ug/Kg	5.00	03/08/2002 17:40	
4,4`-DDE	ND	10	ug/Kg	5.00	03/08/2002 17:40	
4,4`-DDD	ND	10	ug/Kg	5.00	03/08/2002 17:40	
Endosulfan I	ND	10	ug/Kg	5.00	03/08/2002 17:40	
Endosulfan II	ND	10	ug/Kg	5.00	03/08/2002 17:40	
alpha-BHC	ND	10	ug/Kg	5.00	03/08/2002 17:40	
beta-BHC	ND	10	ug/Kg	5.00	03/08/2002 17:40	
gamma-BHC (Lindane)	ND	10	ug/Kg	5.00	03/08/2002 17:40	
delta-BHC	ND	10	ug/Kg	5.00	03/08/2002 17:40	
Endosulfan sulfate	ND	10	ug/Kg	5.00	03/08/2002 17:40	
4,4`-Methoxychlor	ND	10	ug/Kg	5.00	03/08/2002 17:40	
Toxaphene	ND	500	ug/Kg	5.00	03/08/2002 17:40	
Chlordane (Technical)	ND	250	ug/Kg	5.00	03/08/2002 17:40	
alpha-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 17:40	
gamma-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 17:40	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	91.9	50-125	%	5.00	03/08/2002 17:40	
Decachlorobiphenyl (Pest/8081)	1.1	46-142	%	5.00	03/08/2002 17:40	s

Submission #: 2002-03-0114

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Test Method: 8081
Prep Method: 3550/8081

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CA DHS ELAP#1094

Sample ID:	**SS-10@ 0-.5`**	Lab Sample ID:	2002-03-0114-019
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 13:33
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/07-01.13
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	10	ug/Kg	5.00	03/08/2002 17:15	
Dieldrin	ND	10	ug/Kg	5.00	03/08/2002 17:15	
Endrin aldehyde	ND	10	ug/Kg	5.00	03/08/2002 17:15	
Endrin	ND	10	ug/Kg	5.00	03/08/2002 17:15	
Endrin ketone	ND	10	ug/Kg	5.00	03/08/2002 17:15	
Heptachlor	ND	10	ug/Kg	5.00	03/08/2002 17:15	
Heptachlor epoxide	ND	10	ug/Kg	5.00	03/08/2002 17:15	
4,4`-DDT	ND	10	ug/Kg	5.00	03/08/2002 17:15	
4,4`-DDE	ND	10	ug/Kg	5.00	03/08/2002 17:15	
4,4`-DDD	ND	10	ug/Kg	5.00	03/08/2002 17:15	
Endosulfan I	ND	10	ug/Kg	5.00	03/08/2002 17:15	
Endosulfan II	ND	10	ug/Kg	5.00	03/08/2002 17:15	
alpha-BHC	ND	10	ug/Kg	5.00	03/08/2002 17:15	
beta-BHC	ND	10	ug/Kg	5.00	03/08/2002 17:15	
gamma-BHC (Lindane)	ND	10	ug/Kg	5.00	03/08/2002 17:15	
delta-BHC	ND	10	ug/Kg	5.00	03/08/2002 17:15	
Endosulfan sulfate	ND	10	ug/Kg	5.00	03/08/2002 17:15	
4,4`-Methoxychlor	ND	10	ug/Kg	5.00	03/08/2002 17:15	
Toxaphene	ND	500	ug/Kg	5.00	03/08/2002 17:15	
Chlordane (Technical)	ND	250	ug/Kg	5.00	03/08/2002 17:15	
alpha-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 17:15	
gamma-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 17:15	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	122.7	50-125	%	5.00	03/08/2002 17:15	
Decachlorobiphenyl (Pest/8081)	142.4	46-142	%	5.00	03/08/2002 17:15	s

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CA DHS ELAP#1094

Sample ID:	**SS-7@ 6-6.5`**	Lab Sample ID:	2002-03-0114-014
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 13:33
Sampled:	03/06/2002 10:00	QC-Batch:	2002/03/07-01.13
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	10	ug/Kg	5.00	03/08/2002 16:50	
Dieldrin	ND	10	ug/Kg	5.00	03/08/2002 16:50	
Endrin aldehyde	ND	10	ug/Kg	5.00	03/08/2002 16:50	
Endrin	ND	10	ug/Kg	5.00	03/08/2002 16:50	
Endrin ketone	ND	10	ug/Kg	5.00	03/08/2002 16:50	
Heptachlor	ND	10	ug/Kg	5.00	03/08/2002 16:50	
Heptachlor epoxide	ND	10	ug/Kg	5.00	03/08/2002 16:50	
4,4`-DDT	ND	10	ug/Kg	5.00	03/08/2002 16:50	
4,4`-DDE	ND	10	ug/Kg	5.00	03/08/2002 16:50	
4,4`-DDD	ND	10	ug/Kg	5.00	03/08/2002 16:50	
Endosulfan I	ND	10	ug/Kg	5.00	03/08/2002 16:50	
Endosulfan II	ND	10	ug/Kg	5.00	03/08/2002 16:50	
alpha-BHC	ND	10	ug/Kg	5.00	03/08/2002 16:50	
beta-BHC	ND	10	ug/Kg	5.00	03/08/2002 16:50	
gamma-BHC (Lindane)	ND	10	ug/Kg	5.00	03/08/2002 16:50	
delta-BHC	ND	10	ug/Kg	5.00	03/08/2002 16:50	
Endosulfan sulfate	ND	10	ug/Kg	5.00	03/08/2002 16:50	
4,4`-Methoxychlor	ND	10	ug/Kg	5.00	03/08/2002 16:50	
Toxaphene	ND	500	ug/Kg	5.00	03/08/2002 16:50	
Chlordane (Technical)	ND	250	ug/Kg	5.00	03/08/2002 16:50	
alpha-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 16:50	
gamma-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 16:50	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	89.6	50-125	%	5.00	03/08/2002 16:50	
Decachlorobiphenyl (Pest/8081)	100.8	46-142	%	5.00	03/08/2002 16:50	

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CA DHS ELAP#1094

Sample ID:	**SS-7@ 0-.5`**	Lab Sample ID:	2002-03-0114-013
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 13:33
Sampled:	03/06/2002 10:00	QC-Batch:	2002/03/07-01.13
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	10	ug/Kg	5.00	03/08/2002 16:25	
Dieldrin	ND	10	ug/Kg	5.00	03/08/2002 16:25	
Endrin aldehyde	ND	10	ug/Kg	5.00	03/08/2002 16:25	
Endrin	ND	10	ug/Kg	5.00	03/08/2002 16:25	
Endrin ketone	ND	10	ug/Kg	5.00	03/08/2002 16:25	
Heptachlor	ND	10	ug/Kg	5.00	03/08/2002 16:25	
Heptachlor epoxide	ND	10	ug/Kg	5.00	03/08/2002 16:25	
4,4`-DDT	ND	10	ug/Kg	5.00	03/08/2002 16:25	
4,4`-DDE	ND	10	ug/Kg	5.00	03/08/2002 16:25	
4,4`-DDD	ND	10	ug/Kg	5.00	03/08/2002 16:25	
Endosulfan I	ND	10	ug/Kg	5.00	03/08/2002 16:25	
Endosulfan II	ND	10	ug/Kg	5.00	03/08/2002 16:25	
alpha-BHC	ND	10	ug/Kg	5.00	03/08/2002 16:25	
beta-BHC	ND	10	ug/Kg	5.00	03/08/2002 16:25	
gamma-BHC (Lindane)	ND	10	ug/Kg	5.00	03/08/2002 16:25	
delta-BHC	ND	10	ug/Kg	5.00	03/08/2002 16:25	
Endosulfan sulfate	ND	10	ug/Kg	5.00	03/08/2002 16:25	
4,4`-Methoxychlor	ND	10	ug/Kg	5.00	03/08/2002 16:25	
Toxaphene	ND	500	ug/Kg	5.00	03/08/2002 16:25	
Chlordane (Technical)	ND	250	ug/Kg	5.00	03/08/2002 16:25	
alpha-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 16:25	
gamma-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 16:25	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	108.9	50-125	%	5.00	03/08/2002 16:25	
Decachlorobiphenyl (Pest/8081)	116.8	46-142	%	5.00	03/08/2002 16:25	

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CA DHS ELAP#1094

Sample ID:	**SS-6@ 6.5-7`**	Lab Sample ID:	2002-03-0114-012
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 13:33
Sampled:	03/06/2002 09:30	QC-Batch:	2002/03/07-01.13
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	10	ug/Kg	5.00	03/08/2002 16:00	
Dieldrin	ND	10	ug/Kg	5.00	03/08/2002 16:00	
Endrin aldehyde	ND	10	ug/Kg	5.00	03/08/2002 16:00	
Endrin	ND	10	ug/Kg	5.00	03/08/2002 16:00	
Endrin ketone	ND	10	ug/Kg	5.00	03/08/2002 16:00	
Heptachlor	ND	10	ug/Kg	5.00	03/08/2002 16:00	
Heptachlor epoxide	ND	10	ug/Kg	5.00	03/08/2002 16:00	
4,4`-DDT	ND	10	ug/Kg	5.00	03/08/2002 16:00	
4,4`-DDE	ND	10	ug/Kg	5.00	03/08/2002 16:00	
4,4`-DDD	ND	10	ug/Kg	5.00	03/08/2002 16:00	
Endosulfan I	ND	10	ug/Kg	5.00	03/08/2002 16:00	
Endosulfan II	ND	10	ug/Kg	5.00	03/08/2002 16:00	
alpha-BHC	ND	10	ug/Kg	5.00	03/08/2002 16:00	
beta-BHC	ND	10	ug/Kg	5.00	03/08/2002 16:00	
gamma-BHC (Lindane)	ND	10	ug/Kg	5.00	03/08/2002 16:00	
delta-BHC	ND	10	ug/Kg	5.00	03/08/2002 16:00	
Endosulfan sulfate	ND	10	ug/Kg	5.00	03/08/2002 16:00	
4,4`-Methoxychlor	ND	10	ug/Kg	5.00	03/08/2002 16:00	
Toxaphene	ND	500	ug/Kg	5.00	03/08/2002 16:00	
Chlordane (Technical)	ND	250	ug/Kg	5.00	03/08/2002 16:00	
alpha-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 16:00	
gamma-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 16:00	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	91.7	50-125	%	5.00	03/08/2002 16:00	
Decachlorobiphenyl (Pest/8081)	131.0	46-142	%	5.00	03/08/2002 16:00	

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CA DHS ELAP#1094

Sample ID:	**SS-6@ 0-.5`**	Lab Sample ID:	2002-03-0114-011
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 13:33
Sampled:	03/06/2002 09:30	QC-Batch:	2002/03/07-01.13
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	10	ug/Kg	5.00	03/08/2002 15:35	
Dieldrin	ND	10	ug/Kg	5.00	03/08/2002 15:35	
Endrin aldehyde	ND	10	ug/Kg	5.00	03/08/2002 15:35	
Endrin	ND	10	ug/Kg	5.00	03/08/2002 15:35	
Endrin ketone	ND	10	ug/Kg	5.00	03/08/2002 15:35	
Heptachlor	ND	10	ug/Kg	5.00	03/08/2002 15:35	
Heptachlor epoxide	ND	10	ug/Kg	5.00	03/08/2002 15:35	
4,4`-DDT	ND	10	ug/Kg	5.00	03/08/2002 15:35	
4,4`-DDE	ND	10	ug/Kg	5.00	03/08/2002 15:35	
4,4`-DDD	ND	10	ug/Kg	5.00	03/08/2002 15:35	
Endosulfan I	ND	10	ug/Kg	5.00	03/08/2002 15:35	
Endosulfan II	ND	10	ug/Kg	5.00	03/08/2002 15:35	
alpha-BHC	ND	10	ug/Kg	5.00	03/08/2002 15:35	
beta-BHC	ND	10	ug/Kg	5.00	03/08/2002 15:35	
gamma-BHC (Lindane)	ND	10	ug/Kg	5.00	03/08/2002 15:35	
delta-BHC	ND	10	ug/Kg	5.00	03/08/2002 15:35	
Endosulfan sulfate	ND	10	ug/Kg	5.00	03/08/2002 15:35	
4,4`-Methoxychlor	ND	10	ug/Kg	5.00	03/08/2002 15:35	
Toxaphene	ND	500	ug/Kg	5.00	03/08/2002 15:35	
Chlordane (Technical)	ND	250	ug/Kg	5.00	03/08/2002 15:35	
alpha-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 15:35	
gamma-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 15:35	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	87.3	50-125	%	5.00	03/08/2002 15:35	
Decachlorobiphenyl (Pest/8081)	130.5	46-142	%	5.00	03/08/2002 15:35	

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CA DHS ELAP#1094

Sample ID:	**SS-2@ 5-5.5`**	Lab Sample ID:	2002-03-0114-004
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 13:33
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/07-01.13
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	10	ug/Kg	5.00	03/08/2002 15:09	
Dieldrin	ND	10	ug/Kg	5.00	03/08/2002 15:09	
Endrin aldehyde	ND	10	ug/Kg	5.00	03/08/2002 15:09	
Endrin	ND	10	ug/Kg	5.00	03/08/2002 15:09	
Endrin ketone	ND	10	ug/Kg	5.00	03/08/2002 15:09	
Heptachlor	ND	10	ug/Kg	5.00	03/08/2002 15:09	
Heptachlor epoxide	ND	10	ug/Kg	5.00	03/08/2002 15:09	
4,4`-DDT	ND	10	ug/Kg	5.00	03/08/2002 15:09	
4,4`-DDE	ND	10	ug/Kg	5.00	03/08/2002 15:09	
4,4`-DDD	ND	10	ug/Kg	5.00	03/08/2002 15:09	
Endosulfan I	ND	10	ug/Kg	5.00	03/08/2002 15:09	
Endosulfan II	ND	10	ug/Kg	5.00	03/08/2002 15:09	
alpha-BHC	ND	10	ug/Kg	5.00	03/08/2002 15:09	
beta-BHC	ND	10	ug/Kg	5.00	03/08/2002 15:09	
gamma-BHC (Lindane)	ND	10	ug/Kg	5.00	03/08/2002 15:09	
delta-BHC	ND	10	ug/Kg	5.00	03/08/2002 15:09	
Endosulfan sulfate	ND	10	ug/Kg	5.00	03/08/2002 15:09	
4,4`-Methoxychlor	ND	10	ug/Kg	5.00	03/08/2002 15:09	
Toxaphene	ND	500	ug/Kg	5.00	03/08/2002 15:09	
Chlordane (Technical)	ND	250	ug/Kg	5.00	03/08/2002 15:09	
alpha-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 15:09	
gamma-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 15:09	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	91.4	50-125	%	5.00	03/08/2002 15:09	
Decachlorobiphenyl (Pest/8081)	121.1	46-142	%	5.00	03/08/2002 15:09	

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CA DHS ELAP#1094

Sample ID:	**SS-2@ 0-.5`**	Lab Sample ID:	2002-03-0114-003
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 13:33
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/07-01.13
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	10	ug/Kg	5.00	03/08/2002 14:44	
Dieldrin	ND	10	ug/Kg	5.00	03/08/2002 14:44	
Endrin aldehyde	ND	10	ug/Kg	5.00	03/08/2002 14:44	
Endrin	ND	10	ug/Kg	5.00	03/08/2002 14:44	
Endrin ketone	ND	10	ug/Kg	5.00	03/08/2002 14:44	
Heptachlor	ND	10	ug/Kg	5.00	03/08/2002 14:44	
Heptachlor epoxide	ND	10	ug/Kg	5.00	03/08/2002 14:44	
4,4`-DDT	ND	10	ug/Kg	5.00	03/08/2002 14:44	
4,4`-DDE	ND	10	ug/Kg	5.00	03/08/2002 14:44	
4,4`-DDD	ND	10	ug/Kg	5.00	03/08/2002 14:44	
Endosulfan I	ND	10	ug/Kg	5.00	03/08/2002 14:44	
Endosulfan II	ND	10	ug/Kg	5.00	03/08/2002 14:44	
alpha-BHC	ND	10	ug/Kg	5.00	03/08/2002 14:44	
beta-BHC	ND	10	ug/Kg	5.00	03/08/2002 14:44	
gamma-BHC (Lindane)	ND	10	ug/Kg	5.00	03/08/2002 14:44	
delta-BHC	ND	10	ug/Kg	5.00	03/08/2002 14:44	
Endosulfan sulfate	ND	10	ug/Kg	5.00	03/08/2002 14:44	
4,4`-Methoxychlor	ND	10	ug/Kg	5.00	03/08/2002 14:44	
Toxaphene	ND	500	ug/Kg	5.00	03/08/2002 14:44	
Chlordane (Technical)	ND	250	ug/Kg	5.00	03/08/2002 14:44	
alpha-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 14:44	
gamma-Chlordane	ND	10	ug/Kg	5.00	03/08/2002 14:44	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	88.5	50-125	%	5.00	03/08/2002 14:44	
Decachlorobiphenyl (Pest/8081)	165.0	46-142	%	5.00	03/08/2002 14:44	s

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Organochlorine Pesticides Analysis

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CA DHS ELAP#1094

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1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SS-2@ 0-.5`	Soil	03/06/2002 08:00	3
SS-2@ 5-5.5`	Soil	03/06/2002 08:00	4
SS-6@ 0-.5`	Soil	03/06/2002 09:30	11
SS-6@ 6.5-7`	Soil	03/06/2002 09:30	12
SS-7@ 0-.5`	Soil	03/06/2002 10:00	13
SS-7@ 6-6.5`	Soil	03/06/2002 10:00	14
SS-10@ 0-.5`	Soil	03/06/2002 11:00	19
SS-10@4-4.5`	Soil	03/06/2002 11:00	20
SS-11@ 0-.5`	Soil	03/06/2002 11:30	21
SS-11@ 3.5-4`	Soil	03/06/2002 11:30	22

Submission #: 2002-03-0114

TEPH w/ Silica Gel Clean-up

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SS-1@ 0-.5`	Soil	03/06/2002 08:00	1
SS-1@3.5-4`	Soil	03/06/2002 08:00	2
SS-2@ 0-.5`	Soil	03/06/2002 08:00	3
SS-2@ 5-5.5`	Soil	03/06/2002 08:00	4
SS-3@0-.5`	Soil	03/06/2002 08:30	5
SS-3@3.5-4`	Soil	03/06/2002 08:30	6
SS-4@0-.5`	Soil	03/06/2002 09:00	7
SS-4@3.5-4`	Soil	03/06/2002 09:00	8
SS-5@0-.5`	Soil	03/06/2002 09:00	9
SS-5@7-7.5`	Soil	03/06/2002 09:00	10
SS-6@ 0-.5`	Soil	03/06/2002 09:30	11
SS-6@ 6.5-7`	Soil	03/06/2002 09:30	12
SS-7@ 0-.5`	Soil	03/06/2002 10:00	13
SS-7@ 6-6.5`	Soil	03/06/2002 10:00	14
SS-8@0-.5`	Soil	03/06/2002 10:30	15
SS-8@7.5-8`	Soil	03/06/2002 10:30	16
SS-9@0-.5`	Soil	03/06/2002 11:00	17
SS-9@4.5-5`	Soil	03/06/2002 11:00	18
SS-10@ 0-.5`	Soil	03/06/2002 11:00	19
SS-10@4-4.5`	Soil	03/06/2002 11:00	20
SS-11@ 0-.5`	Soil	03/06/2002 11:30	21
SS-11@ 3.5-4`	Soil	03/06/2002 11:30	22
SS-12@0-5`	Soil	03/06/2002 12:00	23
SS-12@4.5-5`	Soil	03/06/2002 12:00	24
SS-13@0-.5`	Soil	03/06/2002 12:00	25
SS-13@3.5-4`	Soil	03/06/2002 12:00	26

Submission #: 2002-03-0114

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TEPH w/ Silica Gel Clean-up

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Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-1@ 0-.5'**	Lab Sample ID:	2002-03-0114-001
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	2400	20	mg/Kg	20.00	03/09/2002 01:50	ndp
Motor Oil	3100	1000	mg/Kg	20.00	03/09/2002 01:50	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	20.00	03/09/2002 01:50	sd

Submission #: 2002-03-0114

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Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-1@3.5-4'**	Lab Sample ID:	2002-03-0114-002
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	94	1.0	mg/Kg	1.00	03/08/2002 09:57	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/08/2002 09:57	
Surrogate(s)						
o-Terphenyl	88.0	60-130	%	1.00	03/08/2002 09:57	

Submission #: 2002-03-0114

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Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-2@ 0-.5`**	Lab Sample ID:	2002-03-0114-003
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	100	10	mg/Kg	10.00	03/11/2002 09:26	ndp
Motor Oil	960	500	mg/Kg	10.00	03/11/2002 09:26	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	10.00	03/11/2002 09:26	sd

Submission #: 2002-03-0114

TEPH w/ Silica Gel Clean-up

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Test Method: 8015M
Prep Method: 3550/8015M

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Sample ID:	**SS-2@ 5-5.5`**	Lab Sample ID:	2002-03-0114-004
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	150	1.0	mg/Kg	1.00	03/08/2002 09:25	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/08/2002 09:25	
Surrogate(s)						
o-Terphenyl	90.0	60-130	%	1.00	03/08/2002 09:25	

Submission #: 2002-03-0114

TEPH w/ Silica Gel Clean-up

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Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-3@0-.5**	Lab Sample ID:	2002-03-0114-005
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 08:30	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	34	1.0	mg/Kg	1.00	03/11/2002 07:04	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/11/2002 07:04	
Surrogate(s)						
o-Terphenyl	77.0	60-130	%	1.00	03/11/2002 07:04	

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Test Method: 8015M
Prep Method: 3550/8015M

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Sample ID:	**SS-3@3.5-4'**	Lab Sample ID:	2002-03-0114-006
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 08:30	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	790	10	mg/Kg	10.00	03/08/2002 23:52	ndp
Motor Oil	ND	500	mg/Kg	10.00	03/08/2002 23:52	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	10.00	03/08/2002 23:52	sd

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Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3550/8015M

Sample ID:	**SS-4@0-.5`**	Lab Sample ID:	2002-03-0114-007
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 09:00	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	41	1.0	mg/Kg	1.00	03/11/2002 07:55	ndp
Motor Oil	110	50	mg/Kg	1.00	03/11/2002 07:55	
Surrogate(s)						
o-Terphenyl	81.5	60-130	%	1.00	03/11/2002 07:55	

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Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-4@3.5-4`**	Lab Sample ID:	2002-03-0114-008
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 09:00	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	400	1.0	mg/Kg	1.00	03/08/2002 11:16	ndp
Motor Oil	88	50	mg/Kg	1.00	03/08/2002 11:16	
Surrogate(s)						
o-Terphenyl	95.7	60-130	%	1.00	03/08/2002 11:16	

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Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-5@0-.5`**	Lab Sample ID:	2002-03-0114-009
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 09:00	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	960	20	mg/Kg	20.00	03/11/2002 10:03	ndp
Motor Oil	1900	1000	mg/Kg	20.00	03/11/2002 10:03	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	20.00	03/11/2002 10:03	sd

Submission #: 2002-03-0114

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Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-5@7-7.5'**	Lab Sample ID:	2002-03-0114-010
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 09:00	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	700	5.0	mg/Kg	5.00	03/09/2002 02:07	ndp
Motor Oil	ND	250	mg/Kg	5.00	03/09/2002 02:07	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	5.00	03/09/2002 02:07	sd

Submission #: 2002-03-0114

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Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-6@ 0-.5`**	Lab Sample ID:	2002-03-0114-011
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 09:30	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	14	1.0	mg/Kg	1.00	03/11/2002 09:34	ndp
Motor Oil	55	50	mg/Kg	1.00	03/11/2002 09:34	
Surrogate(s)						
o-Terphenyl	76.2	60-130	%	1.00	03/11/2002 09:34	

Submission #: 2002-03-0114

TEPH w/ Silica Gel Clean-up

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Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-6@ 6.5-7'**	Lab Sample ID:	2002-03-0114-012
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 09:30	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	130	1.0	mg/Kg	1.00	03/08/2002 09:25	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/08/2002 09:25	
Surrogate(s)						
o-Terphenyl	82.7	60-130	%	1.00	03/08/2002 09:25	

Submission #: 2002-03-0114

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Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-7@ 0-.5`**	Lab Sample ID:	2002-03-0114-013
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 10:00	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	4.3	1.0	mg/Kg	1.00	03/11/2002 07:42	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/11/2002 07:42	
Surrogate(s)						
o-Terphenyl	86.4	60-130	%	1.00	03/11/2002 07:42	

Submission #: 2002-03-0114

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Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-7@ 6-6.5**	Lab Sample ID:	2002-03-0114-014
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 10:00	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	440	1.0	mg/Kg	1.00	03/08/2002 10:37	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/08/2002 10:37	
Surrogate(s)						
o-Terphenyl	94.2	60-130	%	1.00	03/08/2002 10:37	

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Sample ID:	**SS-8@0-.5'**	Lab Sample ID:	2002-03-0114-015
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 10:30	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	12	1.0	mg/Kg	1.00	03/08/2002 15:55	ndp
Motor Oil	100	50	mg/Kg	1.00	03/08/2002 15:55	
Surrogate(s)						
o-Terphenyl	86.2	60-130	%	1.00	03/08/2002 15:55	

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Sample ID:	**SS-8@7.5-8'**	Lab Sample ID:	2002-03-0114-016
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 10:30	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	03/08/2002 14:35	
Motor Oil	ND	50	mg/Kg	1.00	03/08/2002 14:35	
Surrogate(s)						
o-Terphenyl	68.0	60-130	%	1.00	03/08/2002 14:35	

Submission #: 2002-03-0114

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Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-9@0-.5`**	Lab Sample ID:	2002-03-0114-017
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	5.4	1.0	mg/Kg	1.00	03/08/2002 16:35	ndp
Motor Oil	83	50	mg/Kg	1.00	03/08/2002 16:35	
Surrogate(s)						
o-Terphenyl	86.8	60-130	%	1.00	03/08/2002 16:35	

Submission #: 2002-03-0114

TEPH w/ Silica Gel Clean-up

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Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-9@4.5-5`**	Lab Sample ID:	2002-03-0114-018
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	120	10	mg/Kg	10.00	03/09/2002 00:31	ndp
Motor Oil	ND	500	mg/Kg	10.00	03/09/2002 00:31	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	10.00	03/09/2002 00:31	sd

Submission #: 2002-03-0114

SEVERN TRENT SERVICES

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Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-10@ 0-.5`**	Lab Sample ID:	2002-03-0114-019
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	140	5.0	mg/Kg	5.00	03/09/2002 02:30	ndp
Motor Oil	660	250	mg/Kg	5.00	03/09/2002 02:30	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	5.00	03/09/2002 02:30	sd

Submission #: 2002-03-0114

TEPH w/ Silica Gel Clean-up

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Test Method: 8015M
Prep Method: 3550/8015M

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Sample ID:	**SS-10@4-4.5'**	Lab Sample ID:	2002-03-0114-020
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 12:51
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/07-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	4.7	1.0	mg/Kg	1.00	03/11/2002 08:19	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/11/2002 08:19	
Surrogate(s)						
o-Terphenyl	79.9	60-130	%	1.00	03/11/2002 08:19	

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Sample ID:	**SS-11@ 0-.5`**	Lab Sample ID:	2002-03-0114-021
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 08:58
Sampled:	03/06/2002 11:30	QC-Batch:	2002/03/08-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	520	10	mg/Kg	10.00	03/12/2002 06:18	ndp
Motor Oil	710	500	mg/Kg	10.00	03/12/2002 06:18	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	10.00	03/12/2002 06:18	sd

Submission #: 2002-03-0114

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-11@ 3.5-4`**	Lab Sample ID:	2002-03-0114-022
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 08:58
Sampled:	03/06/2002 11:30	QC-Batch:	2002/03/08-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1.3	1.0	mg/Kg	1.00	03/11/2002 10:40	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/11/2002 10:40	
Surrogate(s)						
o-Terphenyl	85.9	60-130	%	1.00	03/11/2002 10:40	

Submission #: 2002-03-0114

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TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-12@0-5'**	Lab Sample ID:	2002-03-0114-023
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 08:58
Sampled:	03/06/2002 12:00	QC-Batch:	2002/03/08-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	430	10	mg/Kg	10.00	03/12/2002 06:55	ndp
Motor Oil	2200	500	mg/Kg	10.00	03/12/2002 06:55	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	10.00	03/12/2002 06:55	sd

Submission #: 2002-03-0114

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-12@4.5-5'**	Lab Sample ID:	2002-03-0114-024
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 08:58
Sampled:	03/06/2002 12:00	QC-Batch:	2002/03/08-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1.1	1.0	mg/Kg	1.00	03/11/2002 10:11	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/11/2002 10:11	
Surrogate(s)						
o-Terphenyl	76.5	60-130	%	1.00	03/11/2002 10:11	

Submission #: 2002-03-0114

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TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-13@0-.5'**	Lab Sample ID:	2002-03-0114-025
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 08:58
Sampled:	03/06/2002 12:00	QC-Batch:	2002/03/08-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	14	1.0	mg/Kg	1.00	03/11/2002 10:48	ndp
Motor Oil	110	50	mg/Kg	1.00	03/11/2002 10:48	
Surrogate(s)						
o-Terphenyl	88.6	60-130	%	1.00	03/11/2002 10:48	

Submission #: 2002-03-0114

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Amiola

Test Method: 8015M
Prep Method: 3550/8015M

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CA DHS ELAP#1094

Sample ID:	**SS-13@3.5-4**	Lab Sample ID:	2002-03-0114-026
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 08:58
Sampled:	03/06/2002 12:00	QC-Batch:	2002/03/08-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	2.0	1.0	mg/Kg	1.00	03/11/2002 10:40	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/11/2002 10:40	
Surrogate(s)						
o-Terphenyl	79.5	60-130	%	1.00	03/11/2002 10:40	

Submission #: 2002-03-0114

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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015 M

Method Blank **Soil** **QC Batch # 2002/03/08-01.10**

MB: 2002/03/08-01.10-001 Date Extracted: 03/08/2002 08:58

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	03/08/2002 14:21	
Motor Oil	ND	50	mg/Kg	03/08/2002 14:21	
Surrogate(s)					
o-Terphenyl	92.3	60-130	%	03/08/2002 14:21	

Submission #: 2002-03-0114

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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M Prep Method: 3550/8015 M

Method Blank	**Soil**	**QC Batch # 2002/03/07-02.10**
MB: 2002/03/07-02.10-001		Date Extracted: 03/07/2002 12:51

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	03/08/2002 04:29	
Motor Oil	ND	50	mg/Kg	03/08/2002 04:29	
Surrogate(s)					
o-Terphenyl	84.6	60-130	%	03/08/2002 04:29	

Submission #: 2002-03-0114

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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M Prep Method: 3550/8015M

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/08-01.10**

LCS: 2002/03/08-01.10-002 Extracted: 03/08/2002 08:58 Analyzed: 03/08/2002 13:07

LCSD: 2002/03/08-01.10-003 Extracted: 03/08/2002 08:58 Analyzed: 03/08/2002 13:45

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	36.1	37.2	41.7	41.7	86.6	89.2	3.0	60-130	25		
Surrogate(s)											
o-Terphenyl	20.3	19.5	20.0	20.0	101.6	97.4		60-130	0		

Submission #: 2002-03-0114

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TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M Prep Method: 3550/8015M

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/07-02.10**

LCS: 2002/03/07-02.10-002 Extracted: 03/07/2002 12:51 Analyzed: 03/08/2002 03:15

LCSD: 2002/03/07-02.10-003 Extracted: 03/07/2002 12:51 Analyzed: 03/08/2002 03:52

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	33.3	32.8	41.7	41.7	79.9	78.7	1.5	60-130	25		
Surrogate(s)											
o-Terphenyl	21.8	19.8	20.0	20.0	108.8	99.2		60-130	0		

Submission #: 2002-03-0114

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TEPH w/ Silica Gel Clean-up

Batch QC Report

Test Method: 8015M Prep Method: 3550/8015M

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2002/03/07-02.10**

Sample ID: **SS-1@ 0-.5` >> MS** Lab ID: 2002-03-0114-001

MS: 2002/03/07-02.10-004 Extracted: 03/07/2002 12:51 Analyzed: 03/09/2002 02:30
Dilution: 20

MSD: 2002/03/07-02.10-005 Extracted: 03/07/2002 12:51 Analyzed: 03/09/2002 03:09
Dilution: 20

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Diesel	2990	2810	2360	41.7	41.5	1510	1084.3	32.9	60-130	25	mso	mso,r
Surrogate(s)												
o-Terphenyl	NA	NA		20.0	20.0	0.0	0.0		60-130	0	sd	sd

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TEPH w/ Silica Gel Clean-up

Legend & Notes

Test Method: 8015M Prep Method: 3550/8015M

QC Compound Flags

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference. Precision and Accuracy were verified by LCS/LCSD.

QC Compound Flags

rpd

Analyte RPD was out of QC limits due to sample heterogeneity.

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Analyte Flags

sd

Surrogate recovery not reportable due to required dilution.

Submission #: 2002-03-0114

PCBs

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SS-1@ 0-.5`	Soil	03/06/2002 08:00	1
SS-1@3.5-4`	Soil	03/06/2002 08:00	2
SS-2@ 0-.5`	Soil	03/06/2002 08:00	3
SS-2@ 5-5.5`	Soil	03/06/2002 08:00	4
SS-3@0-.5`	Soil	03/06/2002 08:30	5
SS-3@3.5-4`	Soil	03/06/2002 08:30	6
SS-4@0-.5`	Soil	03/06/2002 09:00	7
SS-4@3.5-4`	Soil	03/06/2002 09:00	8
SS-5@0-.5`	Soil	03/06/2002 09:00	9
SS-5@7-7.5`	Soil	03/06/2002 09:00	10
SS-6@ 0-.5`	Soil	03/06/2002 09:30	11
SS-6@ 6.5-7`	Soil	03/06/2002 09:30	12
SS-7@ 0-.5`	Soil	03/06/2002 10:00	13
SS-7@ 6-6.5`	Soil	03/06/2002 10:00	14
SS-8@0-.5`	Soil	03/06/2002 10:30	15
SS-8@7.5-8`	Soil	03/06/2002 10:30	16
SS-9@0-.5`	Soil	03/06/2002 11:00	17
SS-9@4.5-5`	Soil	03/06/2002 11:00	18
SS-10@ 0-.5`	Soil	03/06/2002 11:00	19
SS-10@4-4.5`	Soil	03/06/2002 11:00	20
SS-11@ 0-.5`	Soil	03/06/2002 11:30	21
SS-11@ 3.5-4`	Soil	03/06/2002 11:30	22
SS-12@0-5`	Soil	03/06/2002 12:00	23
SS-12@4.5-5`	Soil	03/06/2002 12:00	24
SS-13@0-.5`	Soil	03/06/2002 12:00	25
SS-13@3.5-4`	Soil	03/06/2002 12:00	26

Submission #: 2002-03-0114

PCBs

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CA DHS ELAP#1094

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8082
Prep Method: 3550/8082

Sample ID:	**SS-1@ 0-.5`**	Lab Sample ID:	2002-03-0114-001
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 11:22
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/11-01.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/12/2002 15:07	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/12/2002 15:07	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/12/2002 15:07	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/12/2002 15:07	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/12/2002 15:07	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/12/2002 15:07	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/12/2002 15:07	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	51.6	50-125	%	1.00	03/12/2002 15:07	
Decachlorobiphenyl (PCB/8082)	59.8	46-142	%	1.00	03/12/2002 15:07	

Submission #: 2002-03-0114

PCBs

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8082
Prep Method: 3550/8082

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CA DHS ELAP#1094

Sample ID:	**SS-1@3.5-4'**	Lab Sample ID:	2002-03-0114-002
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:24
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/07-02.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 15:37	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 15:37	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 15:37	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 15:37	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 15:37	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 15:37	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 15:37	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	65.5	50-125	%	1.00	03/08/2002 15:37	
Decachlorobiphenyl (PCB/8082)	71.7	46-142	%	1.00	03/08/2002 15:37	

Submission #: 2002-03-0114

PCBs

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8082
Prep Method: 3550/8082

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CA DHS ELAP#1094

Sample ID: **SS-2@ 0-.5`**
Project: 1424-9B Powell St.
Sampled: 03/06/2002 08:00
Matrix: Soil

Lab Sample ID: 2002-03-0114-003
Received: 03/06/2002 16:10
Extracted: 03/07/2002 14:24
QC-Batch: 2002/03/07-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 15:56	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 15:56	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 15:56	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 15:56	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 15:56	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 15:56	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 15:56	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	70.0	50-125	%	1.00	03/08/2002 15:56	
Decachlorobiphenyl (PCB/8082)	62.8	46-142	%	1.00	03/08/2002 15:56	

Submission #: 2002-03-0114

PCBs

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8082
Prep Method: 3550/8082

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CA DHS ELAP#1094

Sample ID:	**SS-2@ 5-5.5'**	Lab Sample ID:	2002-03-0114-004
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:24
Sampled:	03/06/2002 08:00	QC-Batch:	2002/03/07-02.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 16:17	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 16:17	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 16:17	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 16:17	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 16:17	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 16:17	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 16:17	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	67.0	50-125	%	1.00	03/08/2002 16:17	
Decachlorobiphenyl (PCB/8082)	71.9	46-142	%	1.00	03/08/2002 16:17	

Submission #: 2002-03-0114

PCBs

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8082
Prep Method: 3550/8082

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CA DHS ELAP#1094

Sample ID: **SS-3@0-.5`**
Project: 1424-9B
Powell St.

Lab Sample ID: 2002-03-0114-005
Received: 03/06/2002 16:10

Sampled: 03/06/2002 08:30
Matrix: Soil

Extracted: 03/07/2002 14:24
QC-Batch: 2002/03/07-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 16:36	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 16:36	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 16:36	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 16:36	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 16:36	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 16:36	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 16:36	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	71.5	50-125	%	1.00	03/08/2002 16:36	
Decachlorobiphenyl (PCB/8082)	73.7	46-142	%	1.00	03/08/2002 16:36	

Submission #: 2002-03-0114

PCBs

Lowney & Associates Oakland
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Test Method: 8082
Prep Method: 3550/8082

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CA DHS ELAP#1094

Sample ID:	**SS-3@3.5-4**	Lab Sample ID:	2002-03-0114-006
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:24
Sampled:	03/06/2002 08:30	QC-Batch:	2002/03/07-02.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 16:56	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 16:56	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 16:56	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 16:56	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 16:56	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 16:56	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 16:56	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	62.1	50-125	%	1.00	03/08/2002 16:56	
Decachlorobiphenyl (PCB/8082)	67.4	46-142	%	1.00	03/08/2002 16:56	

Submission #: 2002-03-0114

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Test Method: 8082
Prep Method: 3550/8082

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Sample ID:	**SS-4@0-.5`**	Lab Sample ID:	2002-03-0114-007
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 11:22
Sampled:	03/06/2002 09:00	QC-Batch:	2002/03/11-01.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/12/2002 15:27	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/12/2002 15:27	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/12/2002 15:27	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/12/2002 15:27	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/12/2002 15:27	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/12/2002 15:27	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/12/2002 15:27	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	53.7	50-125	%	1.00	03/12/2002 15:27	
Decachlorobiphenyl (PCB/8082)	53.9	46-142	%	1.00	03/12/2002 15:27	

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Test Method: 8082
Prep Method: 3550/8082

Sample ID:	**SS-4@3.5-4`**	Lab Sample ID:	2002-03-0114-008
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:24
Sampled:	03/06/2002 09:00	QC-Batch:	2002/03/07-02.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 17:35	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 17:35	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 17:35	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 17:35	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 17:35	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 17:35	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 17:35	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	62.8	50-125	%	1.00	03/08/2002 17:35	
Decachlorobiphenyl (PCB/8082)	68.2	46-142	%	1.00	03/08/2002 17:35	

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Test Method: 8082
Prep Method: 3550/8082

Sample ID: **SS-5@0-.5`**
Project: 1424-9B Powell St.
Sampled: 03/06/2002 09:00
Matrix: Soil

Lab Sample ID: 2002-03-0114-009
Received: 03/06/2002 16:10
Extracted: 03/11/2002 11:22
QC-Batch: 2002/03/11-01.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/12/2002 15:47	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/12/2002 15:47	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/12/2002 15:47	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/12/2002 15:47	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/12/2002 15:47	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/12/2002 15:47	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/12/2002 15:47	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	67.5	50-125	%	1.00	03/12/2002 15:47	
Decachlorobiphenyl (PCB/8082)	70.1	46-142	%	1.00	03/12/2002 15:47	

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Sample ID:	**SS-5@7-7.5**	Lab Sample ID:	2002-03-0114-010
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:24
Sampled:	03/06/2002 09:00	QC-Batch:	2002/03/07-02.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 14:38	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 14:38	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 14:38	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 14:38	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 14:38	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 14:38	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 14:38	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	62.0	50-125	%	1.00	03/08/2002 14:38	
Decachlorobiphenyl (PCB/8082)	73.8	46-142	%	1.00	03/08/2002 14:38	

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Sample ID:	**SS-6@ 0-.5`**	Lab Sample ID:	2002-03-0114-011
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:24
Sampled:	03/06/2002 09:30	QC-Batch:	2002/03/07-02.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 14:58	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 14:58	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 14:58	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 14:58	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 14:58	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 14:58	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 14:58	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	61.6	50-125	%	1.00	03/08/2002 14:58	
Decachlorobiphenyl (PCB/8082)	59.3	46-142	%	1.00	03/08/2002 14:58	

Submission #: 2002-03-0114

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Sample ID:	**SS-6@ 6.5-7'**	Lab Sample ID:	2002-03-0114-012
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:24
Sampled:	03/06/2002 09:30	QC-Batch:	2002/03/07-02.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 15:17	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 15:17	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 15:17	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 15:17	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 15:17	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 15:17	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 15:17	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	61.9	50-125	%	1.00	03/08/2002 15:17	
Decachlorobiphenyl (PCB/8082)	74.8	46-142	%	1.00	03/08/2002 15:17	

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Sample ID:	**SS-7@ 0-.5`**	Lab Sample ID:	2002-03-0114-013
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:24
Sampled:	03/06/2002 10:00	QC-Batch:	2002/03/07-02.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 15:37	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 15:37	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 15:37	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 15:37	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 15:37	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 15:37	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 15:37	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	83.6	50-125	%	1.00	03/08/2002 15:37	
Decachlorobiphenyl (PCB/8082)	85.4	46-142	%	1.00	03/08/2002 15:37	

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Sample ID:	**SS-7@ 6-6.5`**	Lab Sample ID:	2002-03-0114-014
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:24
Sampled:	03/06/2002 10:00	QC-Batch:	2002/03/07-02.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 15:56	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 15:56	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 15:56	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 15:56	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 15:56	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 15:56	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 15:56	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	59.5	50-125	%	1.00	03/08/2002 15:56	
Decachlorobiphenyl (PCB/8082)	77.7	46-142	%	1.00	03/08/2002 15:56	

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Sample ID:	**SS-8@0-.5**	Lab Sample ID:	2002-03-0114-015
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 11:22
Sampled:	03/06/2002 10:30	QC-Batch:	2002/03/11-01.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/12/2002 16:06	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/12/2002 16:06	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/12/2002 16:06	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/12/2002 16:06	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/12/2002 16:06	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/12/2002 16:06	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/12/2002 16:06	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	79.8	50-125	%	1.00	03/12/2002 16:06	
Decachlorobiphenyl (PCB/8082)	67.3	46-142	%	1.00	03/12/2002 16:06	

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CA DHS ELAP#1094

Sample ID:	**SS-8@7.5-8`**	Lab Sample ID:	2002-03-0114-016
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:24
Sampled:	03/06/2002 10:30	QC-Batch:	2002/03/07-02.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 16:36	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 16:36	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 16:36	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 16:36	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 16:36	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 16:36	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 16:36	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	74.8	50-125	%	1.00	03/08/2002 16:36	
Decachlorobiphenyl (PCB/8082)	75.2	46-142	%	1.00	03/08/2002 16:36	

Submission #: 2002-03-0114

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Sample ID:	**SS-9@0-.5'**	Lab Sample ID:	2002-03-0114-017
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:24
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/07-02.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 16:56	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 16:56	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 16:56	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 16:56	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 16:56	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 16:56	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 16:56	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	54.2	50-125	%	1.00	03/08/2002 16:56	
Decachlorobiphenyl (PCB/8082)	57.6	46-142	%	1.00	03/08/2002 16:56	

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Sample ID:	**SS-9@4.5-5'**	Lab Sample ID:	2002-03-0114-018
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:24
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/07-02.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 17:15	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 17:15	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 17:15	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 17:15	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 17:15	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 17:15	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 17:15	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	61.8	50-125	%	1.00	03/08/2002 17:15	
Decachlorobiphenyl (PCB/8082)	76.0	46-142	%	1.00	03/08/2002 17:15	

Submission #: 2002-03-0114

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CA DHS ELAP#1094

Sample ID:	**SS-10@ 0-.5`**	Lab Sample ID:	2002-03-0114-019
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:24
Sampled:	03/06/2002 11:00	QC-Batch:	2002/03/07-02.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 17:35	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 17:35	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 17:35	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 17:35	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 17:35	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 17:35	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 17:35	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	80.3	50-125	%	1.00	03/08/2002 17:35	
Decachlorobiphenyl (PCB/8082)	70.7	46-142	%	1.00	03/08/2002 17:35	

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Test Method: 8082
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Sample ID: **SS-10@4-4.5**
Project: 1424-9B Powell St.
Sampled: 03/06/2002 11:00
Matrix: Soil

Lab Sample ID: 2002-03-0114-020
Received: 03/06/2002 16:10
Extracted: 03/07/2002 14:24
QC-Batch: 2002/03/07-02.14

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 17:55	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 17:55	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 17:55	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 17:55	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 17:55	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 17:55	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 17:55	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	69.2	50-125	%	1.00	03/08/2002 17:55	
Decachlorobiphenyl (PCB/8082)	58.3	46-142	%	1.00	03/08/2002 17:55	

Submission #: 2002-03-0114

SEVERN TRENT SERVICES

PCBs

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8082
Prep Method: 3550/8082

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CA DHS ELAP#1094

Sample ID:	**SS-11@ 0-.5'**	Lab Sample ID:	2002-03-0114-021
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:51
Sampled:	03/06/2002 11:30	QC-Batch:	2002/03/07-03.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 11:38	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 11:38	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 11:38	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 11:38	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 11:38	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 11:38	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 11:38	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	85.0	50-125	%	1.00	03/08/2002 11:38	
Decachlorobiphenyl (PCB/8082)	88.0	46-142	%	1.00	03/08/2002 11:38	

Submission #: 2002-03-0114

PCBs

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8082
Prep Method: 3550/8082

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CA DHS ELAP#1094

Sample ID:	**SS-11@ 3.5-4`**	Lab Sample ID:	2002-03-0114-022
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:51
Sampled:	03/06/2002 11:30	QC-Batch:	2002/03/07-03.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 14:19	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 14:19	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 14:19	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 14:19	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 14:19	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 14:19	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 14:19	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	81.3	50-125	%	1.00	03/08/2002 14:19	
Decachlorobiphenyl (PCB/8082)	88.1	46-142	%	1.00	03/08/2002 14:19	

Submission #: 2002-03-0114

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Test Method: 8082
Prep Method: 3550/8082

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CA DHS ELAP#1094

Sample ID:	**SS-12@0-5`**	Lab Sample ID:	2002-03-0114-023
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:51
Sampled:	03/06/2002 12:00	QC-Batch:	2002/03/07-03.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 11:58	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 11:58	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 11:58	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 11:58	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 11:58	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 11:58	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 11:58	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	61.7	50-125	%	1.00	03/08/2002 11:58	
Decachlorobiphenyl (PCB/8082)	55.0	46-142	%	1.00	03/08/2002 11:58	

Submission #: 2002-03-0114

PCBs

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Test Method: 8082
Prep Method: 3550/8082

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CA DHS ELAP#1094

Sample ID:	**SS-12@4.5-5`**	Lab Sample ID:	2002-03-0114-024
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:51
Sampled:	03/06/2002 12:00	QC-Batch:	2002/03/07-03.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 12:19	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 12:19	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 12:19	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 12:19	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 12:19	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 12:19	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 12:19	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	79.6	50-125	%	1.00	03/08/2002 12:19	
Decachlorobiphenyl (PCB/8082)	73.9	46-142	%	1.00	03/08/2002 12:19	

Submission #: 2002-03-0114

PCBs

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Test Method: 8082
Prep Method: 3550/8082

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CA DHS ELAP#1094

Sample ID:	**SS-13@0-.5'**	Lab Sample ID:	2002-03-0114-025
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:51
Sampled:	03/06/2002 12:00	QC-Batch:	2002/03/07-03.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 12:38	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 12:38	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 12:38	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 12:38	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 12:38	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 12:38	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 12:38	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	70.1	50-125	%	1.00	03/08/2002 12:38	
Decachlorobiphenyl (PCB/8082)	62.4	46-142	%	1.00	03/08/2002 12:38	

Submission #: 2002-03-0114

PCBs

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Test Method: 8082
Prep Method: 3550/8082

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CA DHS ELAP#1094

Sample ID:	**SS-13@3.5-4`**	Lab Sample ID:	2002-03-0114-026
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 14:51
Sampled:	03/06/2002 12:00	QC-Batch:	2002/03/07-03.14
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aroclor 1016	ND	0.050	mg/Kg	1.00	03/08/2002 12:58	
Aroclor 1221	ND	0.050	mg/Kg	1.00	03/08/2002 12:58	
Aroclor 1232	ND	0.050	mg/Kg	1.00	03/08/2002 12:58	
Aroclor 1242	ND	0.050	mg/Kg	1.00	03/08/2002 12:58	
Aroclor 1248	ND	0.050	mg/Kg	1.00	03/08/2002 12:58	
Aroclor 1254	ND	0.050	mg/Kg	1.00	03/08/2002 12:58	
Aroclor 1260	ND	0.050	mg/Kg	1.00	03/08/2002 12:58	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	76.6	50-125	%	1.00	03/08/2002 12:58	
Decachlorobiphenyl (PCB/8082)	74.9	46-142	%	1.00	03/08/2002 12:58	

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PCBs

Batch QC report

Test Method: 8082 Prep Method: 3550/8082

Method Blank **Soil** **QC Batch # 2002/03/07-02.14**

MB: 2002/03/07-02.14-001 Date Extracted: 03/07/2002 14:24

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Aroclor 1016	ND	0.05	mg/Kg	03/07/2002 16:50	
Aroclor 1221	ND	0.05	mg/Kg	03/07/2002 16:50	
Aroclor 1232	ND	0.05	mg/Kg	03/07/2002 16:50	
Aroclor 1242	ND	0.05	mg/Kg	03/07/2002 16:50	
Aroclor 1248	ND	0.05	mg/Kg	03/07/2002 16:50	
Aroclor 1254	ND	0.05	mg/Kg	03/07/2002 16:50	
Aroclor 1260	ND	0.05	mg/Kg	03/07/2002 16:50	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	80.3	50-125	%	03/07/2002 16:50	
Decachlorobiphenyl (PCB/8082)	89.1	46-142	%	03/07/2002 16:50	

Submission #: 2002-03-0114

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PCBs

Batch QC report

Test Method: 8082 Prep Method: 3550/8082

Method Blank **Soil** **QC Batch # 2002/03/07-03.14**

MB: 2002/03/07-03.14-001 Date Extracted: 03/07/2002 14:51

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Aroclor 1016	ND	0.05	mg/Kg	03/08/2002 11:38	
Aroclor 1221	ND	0.05	mg/Kg	03/08/2002 11:38	
Aroclor 1232	ND	0.05	mg/Kg	03/08/2002 11:38	
Aroclor 1242	ND	0.05	mg/Kg	03/08/2002 11:38	
Aroclor 1248	ND	0.05	mg/Kg	03/08/2002 11:38	
Aroclor 1254	ND	0.05	mg/Kg	03/08/2002 11:38	
Aroclor 1260	ND	0.05	mg/Kg	03/08/2002 11:38	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	78.0	50-125	%	03/08/2002 11:38	
Decachlorobiphenyl (PCB/8082)	91.2	46-142	%	03/08/2002 11:38	

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PCBs

Batch QC report

Test Method: 8082 Prep Method: 3550/8082

Method Blank **Soil** **QC Batch # 2002/03/11-01.14**

MB: 2002/03/11-01.14-001 Date Extracted: 03/11/2002 11:22

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Aroclor 1016	ND	0.05	mg/Kg	03/12/2002 13:28	
Aroclor 1221	ND	0.05	mg/Kg	03/12/2002 13:28	
Aroclor 1232	ND	0.05	mg/Kg	03/12/2002 13:28	
Aroclor 1242	ND	0.05	mg/Kg	03/12/2002 13:28	
Aroclor 1248	ND	0.05	mg/Kg	03/12/2002 13:28	
Aroclor 1254	ND	0.05	mg/Kg	03/12/2002 13:28	
Aroclor 1260	ND	0.05	mg/Kg	03/12/2002 13:28	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	73.9	50-125	%	03/12/2002 13:28	
Decachlorobiphenyl (PCB/8082)	83.5	46-142	%	03/12/2002 13:28	

Submission #: 2002-03-0114

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PCBs

Batch QC report

Test Method: 8082 Prep Method: 3550/8082

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/07-02.14**

LCS: 2002/03/07-02.14-002 Extracted: 03/07/2002 14:24 Analyzed: 03/07/2002 17:09

LCSD: 2002/03/07-02.14-003 Extracted: 03/07/2002 14:24 Analyzed: 03/07/2002 17:30

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Aroclor 1016	0.0760	0.0730	0.0663	0.0663	114.6	110.1	4.0	65-135	30		
Aroclor 1260	0.0760	0.0740	0.0663	0.0663	114.6	111.6	2.7	65-135	30		
Surrogate(s)											
2,4,5,6-Tetrachloro-m-	41.8	40.4	50	50	83.6	80.8		50-125	0		
Decachlorobiphenyl	47.2	45.3	50	50	94.3	90.7		46-142	0		

Submission #: 2002-03-0114

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PCBs

Batch QC report

Test Method: 8082 Prep Method: 3550/8082

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/07-03.14**

LCS: 2002/03/07-03.14-002 Extracted: 03/07/2002 14:51 Analyzed: 03/08/2002 11:58

LCSD: 2002/03/07-03.14-003 Extracted: 03/07/2002 14:51 Analyzed: 03/08/2002 12:19

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Aroclor 1016	0.0750	0.0750	0.0662	0.0664	113.3	113.0	0.3	65-135	30		
Aroclor 1260	0.0760	0.0780	0.0662	0.0664	114.8	117.5	2.3	65-135	30		
Surrogate(s)											
2,4,5,6-Tetrachloro-m-	41.5	41.7	50	50	82.9	83.4		50-125	0		
Decachlorobiphenyl	45.9	47.0	50	50	91.8	94.1		46-142	0		

Submission #: 2002-03-0114

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Batch QC report

Test Method: 8082 Prep Method: 3550/8082

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/11-01.14**

LCS: 2002/03/11-01.14-002 Extracted: 03/11/2002 11:22 Analyzed: 03/12/2002 13:48

LCSD: 2002/03/11-01.14-003 Extracted: 03/11/2002 11:22 Analyzed: 03/12/2002 14:08

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Aroclor 1016	0.0700	0.0750	0.0666	0.0666	105.1	112.6	6.9	65-135	30		
Aroclor 1260	0.0710	0.0770	0.0666	0.0666	106.6	115.6	8.1	65-135	30		
Surrogate(s)											
2,4,5,6-Tetrachloro-m-	41.6	44.2	50	50	83.3	88.4		50-125	0		
Decachlorobiphenyl	39.6	43.9	50	50	79.2	87.8		46-142	0		

Submission #: 2002-03-0114

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Batch QC Report

Test Method: 8082 Prep Method: 3550/8082

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2002/03/07-03.14**

Sample ID: **SS-12@4.5-5` >> MS** Lab ID: 2002-03-0114-024

MS: 2002/03/07-03.14-004 Extracted: 03/07/2002 14:51 Analyzed: 03/08/2002 12:38
Dilution: 1

MSD: 2002/03/07-03.14-005 Extracted: 03/07/2002 14:51 Analyzed: 03/08/2002 12:58
Dilution: 1

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Aroclor 1016	0.0610	0.0740	ND	0.0664	0.0661	91.9	112.0	19.7	65-135	30		
Aroclor 1260	0.0640	0.0740	ND	0.0664	0.0661	96.4	112.0	15.0	65-135	30		
Surrogate(s)												
2,4,5,6-Tetrachlor	39.9	45.0		50	50	79.8	89.9		50-125	0		
Decachlorobiphen	39.1	45.3		50	50	78.1	90.7		46-142	0		

Submission #: 2002-03-0114

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PCBs

Batch QC Report

Test Method: 8082 Prep Method: 3550/8082

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2002/03/11-01.14**

Sample ID: **SS-4@0-.5` >> MS** Lab ID: 2002-03-0114-007

MS: 2002/03/11-01.14-004 Extracted: 03/11/2002 11:22 Analyzed: 03/12/2002 14:27
Dilution: 1

MSD: 2002/03/11-01.14-005 Extracted: 03/11/2002 11:22 Analyzed: 03/12/2002 14:48
Dilution: 1

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Aroclor 1016	0.0450	0.0550	ND	0.0665	0.0667	67.7	82.5	19.7	65-135	30		
Aroclor 1260	0.0600	0.0650	ND	0.0665	0.0667	90.2	97.5	7.8	65-135	30		
Surrogate(s)												
2,4,5,6-Tetrachlor	30.0	36.4		50	50	60.0	72.8		50-125	0		
Decachlorobiphen	29.8	34.5		50	50	59.5	69.1		46-142	0		

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2258 Camino Ramon
San Ramon 94583
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CHAIN OF CUSTODY RECORD

2002-03-0114

65063

Project Name: Powell St
Job No.: 1424-9B
Report To: Mark Arriola
Sampler (print): Veronica Tighe
Sampler (signature):
QC Requirement: ☒ Level A (standard)

Turnaround Requirements
- ☒ 5 Working Days
- ☐ 48 Hours
- ☐ 24 Hours
- ☐ 2-3 Hours RUSH
- ☐ _____

ANALYSES REQUESTED

Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M) (silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 or 8260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filer and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M) (Purgeable and Extractable)			Remarks
SS-1@0-1½'	03/06/02	8:00		Soil	1	X	X						X	X				
SS-1@3½'-4'		8:00				X	X						X	X				
SS-2@0-½'		8:00				X	X			X	X		X	X				
SS-2@5-5½'		8:00				X	X			X	X		X	X				
SS-3@0-½'		8:30		—		X	X						X	X				
SS-3@3½'-4'		8:30				X	X						X	X				
SS-4@0-½'		9:00				X	X						X	X				
SS-4@3½'-4'		9:00				X	X						X	X				
SS-5@0-½'		9:00				X	X						X	X				
SS-5@7'-7½'		9:00				X	X						X	X				
SS-6@0-½'		9:30				X	X			X	X		X	X				
SS-6@6½'-7'		9:30				X	X			X	X		X	X				
SS-7@0-½'		10:00				X	X			X	X		X	X				

Relinquished By: Date: 3/6/02 Time: 15:00 — Received By: Date: 3-6 Time: 1550 — PM Initial:
Relinquished By: Date: 3-6 Time: 1610 — Received By: Date: Time:
Relinquished By: Date: Time: — Lab of Record: STL-SF — Temp:
Received by Lab: Denise Date: 3/6/02 Time: 1610 — 4.6°C

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

☐ **Mountain View Office**
405 Clyde Ave.
Mountain View 94043
Tel: 650.967.2365
Fax: 650.967.2785

☑ **Oakland Office**
167 1329 Filbert St.
Oakland 94607
Tel: 510.267.1970
Fax: 510.267.1972

☐ **Pasadena Office**
1785 Locust St., #10
Pasadena 91106
Tel: 626.396.1490
Fax: 626.396.1491

☐ **San Ramon Office**
2258 Camino Ramon
San Ramon 94583
Tel: 925.275.2555
Fax: 925.275.2555

CHAIN OF CUSTODY RECORD

2002-03-0114

Project Name:	Bowell St
Job No.:	1424-9B
Report To:	Mark Arriola
Sampler (print):	Veronica Figlao
Sampler (signature):	
QC Requirement:	☒ Level A (standard)

Turnaround Requirements

- ☒ 5 Working Days
- ☐ 48 Hours
- ☐ 24 Hours
- ☐ 2-3 Hours RUSH
- ☐ _____

ANALYSES REQUESTED 165063

Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M) - water(01) silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 or 8260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filer and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M) (Purgeable and Extractable)			Remarks
SS-7@ 0'-1/2'	3/6/02	10:00		Soil	1	X	X			X	X		X	X				
SS-8@ 0'-1/2'		10:30				X	X						X	X				
SS-8@ 7'1/2'-8'		10:30				X	X						X	X				
SS-9@ 0'-1/2'		11:00				X	X						X	X				
SS-9@ 4'1/2'-5'		11:00				X	X						X	X				
SS-10@ 0'-1/2'		11:00				X	X			X	X		X	X				
SS-10@ 4'-4'1/2'		11:00				X	X			X	X		X	X				
SS-11@ 0'-1/2'		11:30				X	X			X	X		X	X				
SS-11@ 3'1/2'-4'		11:30				X	X			X	X		X	X				
SS-12@ 0'-1/2'		12:00				X	X						X	X				
SS-12@ 4'1/2'-5'		12:00				X	X						X	X				
SS-13@ 0'-1/2'		12:00				X	X						X	X				
SS-13@ 3'1/2'-4'		12:00				X	X						X	X				

Relinquished By:		Date: 3/6/02	Time: 15:00
Relinquished By:	5016	Date: 3-6	Time: 1610
Relinquished By:		Date:	Time:
Received By:	5016	Date: 3-6	Time: 1610
Received By:		Date:	Time:
Lab of Record:	STL - SF		
Received by Lab:	Denise	Date: 3/6/02	Time: 1610

PM Initial:

Temp:

Harrison Bong SF

Submission #: 2002-03-0103

Date: March 18, 2002

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com
CA DHS ELAP#1094

Lowney & Associates Oakland
167 Filbert Street
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-9B
Powell St.

Dear Mr. Arniola,

Attached is our report for your samples received on Wednesday March 6, 2002
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after April 20, 2002 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@chromalab.com

Sincerely,

Vincent Vancil
Project Manager

Submission #: 2002-03-0103

Volatile Organic Compounds by 8260B (Low Level)

SEVERN TRENT SERVICES

STL San Francisco
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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-1	Water	03/04/2002	1
EB-7	Water	03/05/2002	2
EB-8	Water	03/05/2002	3
EB-9	Water	03/05/2002	4
EB-10	Water	03/05/2002	5
EB-11	Water	03/05/2002	6
EB-12	Water	03/05/2002	7

Submission #: 2002-03-0103

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
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www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**EB-1**	Lab Sample ID:	2002-03-0103-001
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 17:18
Sampled:	03/04/2002	QC-Batch:	2002/03/11-01.07
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	03/11/2002 17:18	
Acetone	ND	50	ug/L	1.00	03/11/2002 17:18	
Benzene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Bromobenzene	ND	1.0	ug/L	1.00	03/11/2002 17:18	
Bromochloromethane	ND	1.0	ug/L	1.00	03/11/2002 17:18	
Bromoform	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Bromomethane	ND	1.0	ug/L	1.00	03/11/2002 17:18	
2-Butanone(MEK)	ND	50	ug/L	1.00	03/11/2002 17:18	
n-Butylbenzene	ND	1.0	ug/L	1.00	03/11/2002 17:18	
sec-Butylbenzene	ND	1.0	ug/L	1.00	03/11/2002 17:18	
tert-Butylbenzene	ND	1.0	ug/L	1.00	03/11/2002 17:18	
Carbon disulfide	ND	5.0	ug/L	1.00	03/11/2002 17:18	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Chlorobenzene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Chloroethane	ND	1.0	ug/L	1.00	03/11/2002 17:18	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	03/11/2002 17:18	
Chloroform	ND	1.0	ug/L	1.00	03/11/2002 17:18	
Chloromethane	ND	1.0	ug/L	1.00	03/11/2002 17:18	
2-Chlorotoluene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
4-Chlorotoluene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	03/11/2002 17:18	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	03/11/2002 17:18	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Dibromomethane	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/11/2002 17:18	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**EB-1**	Lab Sample ID:	2002-03-0103-001
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 17:18
Sampled:	03/04/2002	QC-Batch:	2002/03/11-01.07
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Ethylbenzene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	03/11/2002 17:18	
2-Hexanone	ND	50	ug/L	1.00	03/11/2002 17:18	
Isopropylbenzene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	03/11/2002 17:18	
Methylene chloride	ND	5.0	ug/L	1.00	03/11/2002 17:18	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	03/11/2002 17:18	
Naphthalene	ND	1.0	ug/L	1.00	03/11/2002 17:18	
n-Propylbenzene	ND	1.0	ug/L	1.00	03/11/2002 17:18	
Styrene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Toluene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	03/11/2002 17:18	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	03/11/2002 17:18	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Trichloroethene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	03/11/2002 17:18	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Vinyl acetate	ND	25	ug/L	1.00	03/11/2002 17:18	
Vinyl chloride	ND	0.50	ug/L	1.00	03/11/2002 17:18	
Total xylenes	ND	1.0	ug/L	1.00	03/11/2002 17:18	
Surrogate(s)						
4-Bromofluorobenzene	102.0	86-115	%	1.00	03/11/2002 17:18	
1,2-Dichloroethane-d4	100.1	76-114	%	1.00	03/11/2002 17:18	
Toluene-d8	92.5	88-110	%	1.00	03/11/2002 17:18	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID: **EB-7**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Water

Lab Sample ID: 2002-03-0103-002
Received: 03/06/2002 16:10
Extracted: 03/11/2002 17:42
QC-Batch: 2002/03/11-01.07

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	03/11/2002 17:42	
Acetone	ND	50	ug/L	1.00	03/11/2002 17:42	
Benzene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Bromobenzene	ND	1.0	ug/L	1.00	03/11/2002 17:42	
Bromochloromethane	ND	1.0	ug/L	1.00	03/11/2002 17:42	
Bromoform	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Bromomethane	ND	1.0	ug/L	1.00	03/11/2002 17:42	
2-Butanone(MEK)	ND	50	ug/L	1.00	03/11/2002 17:42	
n-Butylbenzene	ND	1.0	ug/L	1.00	03/11/2002 17:42	
sec-Butylbenzene	3.4	1.0	ug/L	1.00	03/11/2002 17:42	
tert-Butylbenzene	ND	1.0	ug/L	1.00	03/11/2002 17:42	
Carbon disulfide	ND	5.0	ug/L	1.00	03/11/2002 17:42	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Chlorobenzene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Chloroethane	ND	1.0	ug/L	1.00	03/11/2002 17:42	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	03/11/2002 17:42	
Chloroform	ND	1.0	ug/L	1.00	03/11/2002 17:42	
Chloromethane	ND	1.0	ug/L	1.00	03/11/2002 17:42	
2-Chlorotoluene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
4-Chlorotoluene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	03/11/2002 17:42	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	03/11/2002 17:42	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Dibromomethane	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/11/2002 17:42	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
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www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**EB-7**	Lab Sample ID:	2002-03-0103-002
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 17:42
Sampled:	03/05/2002	QC-Batch:	2002/03/11-01.07
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Ethylbenzene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	03/11/2002 17:42	
2-Hexanone	ND	50	ug/L	1.00	03/11/2002 17:42	
Isopropylbenzene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	03/11/2002 17:42	
Methylene chloride	ND	5.0	ug/L	1.00	03/11/2002 17:42	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	03/11/2002 17:42	
Naphthalene	4.2	1.0	ug/L	1.00	03/11/2002 17:42	
n-Propylbenzene	ND	1.0	ug/L	1.00	03/11/2002 17:42	
Styrene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Toluene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	03/11/2002 17:42	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	03/11/2002 17:42	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Trichloroethene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	03/11/2002 17:42	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Vinyl acetate	ND	25	ug/L	1.00	03/11/2002 17:42	
Vinyl chloride	ND	0.50	ug/L	1.00	03/11/2002 17:42	
Total xylenes	ND	1.0	ug/L	1.00	03/11/2002 17:42	
Surrogate(s)						
4-Bromofluorobenzene	106.0	86-115	%	1.00	03/11/2002 17:42	
1,2-Dichloroethane-d4	100.5	76-114	%	1.00	03/11/2002 17:42	
Toluene-d8	93.4	88-110	%	1.00	03/11/2002 17:42	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**EB-8**	Lab Sample ID:	2002-03-0103-003
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 20:03
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.60
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	03/07/2002 20:03	
Acetone	ND	50	ug/L	1.00	03/07/2002 20:03	
Benzene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Bromobenzene	ND	1.0	ug/L	1.00	03/07/2002 20:03	
Bromochloromethane	ND	1.0	ug/L	1.00	03/07/2002 20:03	
Bromoform	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Bromomethane	ND	1.0	ug/L	1.00	03/07/2002 20:03	
2-Butanone(MEK)	ND	50	ug/L	1.00	03/07/2002 20:03	
n-Butylbenzene	ND	1.0	ug/L	1.00	03/07/2002 20:03	
sec-Butylbenzene	ND	1.0	ug/L	1.00	03/07/2002 20:03	
tert-Butylbenzene	ND	1.0	ug/L	1.00	03/07/2002 20:03	
Carbon disulfide	ND	5.0	ug/L	1.00	03/07/2002 20:03	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Chlorobenzene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Chloroethane	ND	1.0	ug/L	1.00	03/07/2002 20:03	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	03/07/2002 20:03	
Chloroform	ND	1.0	ug/L	1.00	03/07/2002 20:03	
Chloromethane	ND	1.0	ug/L	1.00	03/07/2002 20:03	
2-Chlorotoluene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
4-Chlorotoluene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	03/07/2002 20:03	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	03/07/2002 20:03	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Dibromomethane	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/07/2002 20:03	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
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Test Method: 8260B
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID:	**EB-8**	Lab Sample ID:	2002-03-0103-003
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 20:03
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.60
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Ethylbenzene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	03/07/2002 20:03	
2-Hexanone	ND	50	ug/L	1.00	03/07/2002 20:03	
Isopropylbenzene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	03/07/2002 20:03	
Methylene chloride	ND	5.0	ug/L	1.00	03/07/2002 20:03	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	03/07/2002 20:03	
Naphthalene	ND	1.0	ug/L	1.00	03/07/2002 20:03	
n-Propylbenzene	ND	1.0	ug/L	1.00	03/07/2002 20:03	
Styrene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Toluene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	03/07/2002 20:03	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	03/07/2002 20:03	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Trichloroethene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	03/07/2002 20:03	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Vinyl acetate	ND	25	ug/L	1.00	03/07/2002 20:03	
Vinyl chloride	ND	0.50	ug/L	1.00	03/07/2002 20:03	
Total xylenes	ND	1.0	ug/L	1.00	03/07/2002 20:03	
Surrogate(s)						
4-Bromofluorobenzene	100.7	86-115	%	1.00	03/07/2002 20:03	
1,2-Dichloroethane-d4	76.6	76-114	%	1.00	03/07/2002 20:03	
Toluene-d8	94.8	88-110	%	1.00	03/07/2002 20:03	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

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Test Method: 8260B
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: **EB-9**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Water
Sample/Analysis Flag: Im (See Legend & Note section)

Lab Sample ID: 2002-03-0103-004
Received: 03/06/2002 16:10
Extracted: 03/07/2002 21:10
QC-Batch: 2002/03/07-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	50	ug/L	10.00	03/07/2002 21:10	
Acetone	ND	500	ug/L	10.00	03/07/2002 21:10	
Benzene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Bromodichloromethane	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Bromobenzene	ND	10	ug/L	10.00	03/07/2002 21:10	
Bromochloromethane	ND	10	ug/L	10.00	03/07/2002 21:10	
Bromoform	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Bromomethane	ND	10	ug/L	10.00	03/07/2002 21:10	
2-Butanone(MEK)	ND	500	ug/L	10.00	03/07/2002 21:10	
n-Butylbenzene	42	10	ug/L	10.00	03/07/2002 21:10	
sec-Butylbenzene	45	10	ug/L	10.00	03/07/2002 21:10	
tert-Butylbenzene	ND	10	ug/L	10.00	03/07/2002 21:10	
Carbon disulfide	ND	50	ug/L	10.00	03/07/2002 21:10	
Carbon tetrachloride	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Chlorobenzene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Chloroethane	ND	10	ug/L	10.00	03/07/2002 21:10	
2-Chloroethylvinyl ether	ND	50	ug/L	10.00	03/07/2002 21:10	
Chloroform	ND	10	ug/L	10.00	03/07/2002 21:10	
Chloromethane	ND	10	ug/L	10.00	03/07/2002 21:10	
2-Chlorotoluene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
4-Chlorotoluene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Dibromochloromethane	ND	5.0	ug/L	10.00	03/07/2002 21:10	
1,2-Dichlorobenzene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
1,3-Dichlorobenzene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
1,4-Dichlorobenzene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
1,3-Dichloropropane	ND	10	ug/L	10.00	03/07/2002 21:10	
2,2-Dichloropropane	ND	5.0	ug/L	10.00	03/07/2002 21:10	
1,1-Dichloropropene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
1,2-Dibromo-3-chloropropane	ND	10	ug/L	10.00	03/07/2002 21:10	
1,2-Dibromoethane	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Dibromomethane	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Dichlorodifluoromethane	ND	5.0	ug/L	10.00	03/07/2002 21:10	
1,1-Dichloroethane	ND	5.0	ug/L	10.00	03/07/2002 21:10	
1,2-Dichloroethane	ND	5.0	ug/L	10.00	03/07/2002 21:10	
1,1-Dichloroethene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
cis-1,2-Dichloroethene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
trans-1,2-Dichloroethene	ND	5.0	ug/L	10.00	03/07/2002 21:10	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

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Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: **EB-9**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Water
Sample/Analysis Flag: lm (See Legend & Note section)

Lab Sample ID: 2002-03-0103-004
Received: 03/06/2002 16:10
Extracted: 03/07/2002 21:10
QC-Batch: 2002/03/07-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloropropane	ND	5.0	ug/L	10.00	03/07/2002 21:10	
cis-1,3-Dichloropropene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
trans-1,3-Dichloropropene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Ethylbenzene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Hexachlorobutadiene	ND	10	ug/L	10.00	03/07/2002 21:10	
2-Hexanone	ND	500	ug/L	10.00	03/07/2002 21:10	
Isopropylbenzene	29	5.0	ug/L	10.00	03/07/2002 21:10	
p-Isopropyltoluene	ND	10	ug/L	10.00	03/07/2002 21:10	
Methylene chloride	ND	50	ug/L	10.00	03/07/2002 21:10	
4-Methyl-2-pentanone (MIBK)	ND	500	ug/L	10.00	03/07/2002 21:10	
Naphthalene	22	10	ug/L	10.00	03/07/2002 21:10	
n-Propylbenzene	28	10	ug/L	10.00	03/07/2002 21:10	
Styrene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	10.00	03/07/2002 21:10	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Tetrachloroethene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Toluene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
1,2,3-Trichlorobenzene	ND	10	ug/L	10.00	03/07/2002 21:10	
1,2,4-Trichlorobenzene	ND	10	ug/L	10.00	03/07/2002 21:10	
1,1,1-Trichloroethane	ND	5.0	ug/L	10.00	03/07/2002 21:10	
1,1,2-Trichloroethane	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Trichloroethene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Trichlorofluoromethane	ND	10	ug/L	10.00	03/07/2002 21:10	
Trichlorotrifluoroethane	ND	5.0	ug/L	10.00	03/07/2002 21:10	
1,2,4-Trimethylbenzene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
1,3,5-Trimethylbenzene	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Vinyl acetate	ND	250	ug/L	10.00	03/07/2002 21:10	
Vinyl chloride	ND	5.0	ug/L	10.00	03/07/2002 21:10	
Total xylenes	ND	10	ug/L	10.00	03/07/2002 21:10	
Surrogate(s)						
4-Bromofluorobenzene	102.9	86-115	%	10.00	03/07/2002 21:10	
1,2-Dichloroethane-d4	102.3	76-114	%	10.00	03/07/2002 21:10	
Toluene-d8	96.0	88-110	%	10.00	03/07/2002 21:10	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

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Test Method: 8260B
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: **EB-10**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Water
Sample/Analysis Flag: Im (See Legend & Note section)

Lab Sample ID: 2002-03-0103-005
Received: 03/06/2002 16:10
Extracted: 03/07/2002 21:44
QC-Batch: 2002/03/07-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	50	ug/L	10.00	03/07/2002 21:44	
Acetone	ND	500	ug/L	10.00	03/07/2002 21:44	
Benzene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Bromodichloromethane	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Bromobenzene	ND	10	ug/L	10.00	03/07/2002 21:44	
Bromochloromethane	ND	10	ug/L	10.00	03/07/2002 21:44	
Bromoform	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Bromomethane	ND	10	ug/L	10.00	03/07/2002 21:44	
2-Butanone(MEK)	ND	500	ug/L	10.00	03/07/2002 21:44	
n-Butylbenzene	23	10	ug/L	10.00	03/07/2002 21:44	
sec-Butylbenzene	21	10	ug/L	10.00	03/07/2002 21:44	
tert-Butylbenzene	ND	10	ug/L	10.00	03/07/2002 21:44	
Carbon disulfide	ND	50	ug/L	10.00	03/07/2002 21:44	
Carbon tetrachloride	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Chlorobenzene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Chloroethane	ND	10	ug/L	10.00	03/07/2002 21:44	
2-Chloroethylvinyl ether	ND	50	ug/L	10.00	03/07/2002 21:44	
Chloroform	ND	10	ug/L	10.00	03/07/2002 21:44	
Chloromethane	ND	10	ug/L	10.00	03/07/2002 21:44	
2-Chlorotoluene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
4-Chlorotoluene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Dibromochloromethane	ND	5.0	ug/L	10.00	03/07/2002 21:44	
1,2-Dichlorobenzene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
1,3-Dichlorobenzene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
1,4-Dichlorobenzene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
1,3-Dichloropropane	ND	10	ug/L	10.00	03/07/2002 21:44	
2,2-Dichloropropane	ND	5.0	ug/L	10.00	03/07/2002 21:44	
1,1-Dichloropropene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
1,2-Dibromo-3-chloropropane	ND	10	ug/L	10.00	03/07/2002 21:44	
1,2-Dibromoethane	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Dibromomethane	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Dichlorodifluoromethane	ND	5.0	ug/L	10.00	03/07/2002 21:44	
1,1-Dichloroethane	ND	5.0	ug/L	10.00	03/07/2002 21:44	
1,2-Dichloroethane	ND	5.0	ug/L	10.00	03/07/2002 21:44	
1,1-Dichloroethene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
cis-1,2-Dichloroethene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
trans-1,2-Dichloroethene	ND	5.0	ug/L	10.00	03/07/2002 21:44	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

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Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: **EB-10**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Water
Sample/Analysis Flag: Im (See Legend & Note section)

Lab Sample ID: 2002-03-0103-005
Received: 03/06/2002 16:10
Extracted: 03/07/2002 21:44
QC-Batch: 2002/03/07-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloropropane	ND	5.0	ug/L	10.00	03/07/2002 21:44	
cis-1,3-Dichloropropene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
trans-1,3-Dichloropropene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Ethylbenzene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Hexachlorobutadiene	ND	10	ug/L	10.00	03/07/2002 21:44	
2-Hexanone	ND	500	ug/L	10.00	03/07/2002 21:44	
Isopropylbenzene	14	5.0	ug/L	10.00	03/07/2002 21:44	
p-Isopropyltoluene	ND	10	ug/L	10.00	03/07/2002 21:44	
Methylene chloride	ND	50	ug/L	10.00	03/07/2002 21:44	
4-Methyl-2-pentanone (MIBK)	ND	500	ug/L	10.00	03/07/2002 21:44	
Naphthalene	20	10	ug/L	10.00	03/07/2002 21:44	
n-Propylbenzene	13	10	ug/L	10.00	03/07/2002 21:44	
Styrene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	10.00	03/07/2002 21:44	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Tetrachloroethene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Toluene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
1,2,3-Trichlorobenzene	ND	10	ug/L	10.00	03/07/2002 21:44	
1,2,4-Trichlorobenzene	ND	10	ug/L	10.00	03/07/2002 21:44	
1,1,1-Trichloroethane	ND	5.0	ug/L	10.00	03/07/2002 21:44	
1,1,2-Trichloroethane	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Trichloroethene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Trichlorofluoromethane	ND	10	ug/L	10.00	03/07/2002 21:44	
Trichlorotrifluoroethane	ND	5.0	ug/L	10.00	03/07/2002 21:44	
1,2,4-Trimethylbenzene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
1,3,5-Trimethylbenzene	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Vinyl acetate	ND	250	ug/L	10.00	03/07/2002 21:44	
Vinyl chloride	ND	5.0	ug/L	10.00	03/07/2002 21:44	
Total xylenes	ND	10	ug/L	10.00	03/07/2002 21:44	
Surrogate(s)						
4-Bromofluorobenzene	101.3	86-115	%	10.00	03/07/2002 21:44	
1,2-Dichloroethane-d4	100.2	76-114	%	10.00	03/07/2002 21:44	
Toluene-d8	94.5	88-110	%	10.00	03/07/2002 21:44	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
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Test Method: 8260B
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: **EB-11**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Water
Sample/Analysis Flag: Im (See Legend & Note section)

Lab Sample ID: 2002-03-0103-006
Received: 03/06/2002 16:10
Extracted: 03/07/2002 22:18
QC-Batch: 2002/03/07-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	100	50	ug/L	10.00	03/07/2002 22:18	
Acetone	ND	500	ug/L	10.00	03/07/2002 22:18	
Benzene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Bromodichloromethane	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Bromobenzene	ND	10	ug/L	10.00	03/07/2002 22:18	
Bromochloromethane	ND	10	ug/L	10.00	03/07/2002 22:18	
Bromoform	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Bromomethane	ND	10	ug/L	10.00	03/07/2002 22:18	
2-Butanone(MEK)	ND	500	ug/L	10.00	03/07/2002 22:18	
n-Butylbenzene	20	10	ug/L	10.00	03/07/2002 22:18	
sec-Butylbenzene	25	10	ug/L	10.00	03/07/2002 22:18	
tert-Butylbenzene	ND	10	ug/L	10.00	03/07/2002 22:18	
Carbon disulfide	ND	50	ug/L	10.00	03/07/2002 22:18	
Carbon tetrachloride	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Chlorobenzene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Chloroethane	ND	10	ug/L	10.00	03/07/2002 22:18	
2-Chloroethylvinyl ether	ND	50	ug/L	10.00	03/07/2002 22:18	
Chloroform	ND	10	ug/L	10.00	03/07/2002 22:18	
Chloromethane	ND	10	ug/L	10.00	03/07/2002 22:18	
2-Chlorotoluene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
4-Chlorotoluene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Dibromochloromethane	ND	5.0	ug/L	10.00	03/07/2002 22:18	
1,2-Dichlorobenzene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
1,3-Dichlorobenzene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
1,4-Dichlorobenzene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
1,3-Dichloropropane	ND	10	ug/L	10.00	03/07/2002 22:18	
2,2-Dichloropropane	ND	5.0	ug/L	10.00	03/07/2002 22:18	
1,1-Dichloropropene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
1,2-Dibromo-3-chloropropane	ND	10	ug/L	10.00	03/07/2002 22:18	
1,2-Dibromoethane	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Dibromomethane	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Dichlorodifluoromethane	ND	5.0	ug/L	10.00	03/07/2002 22:18	
1,1-Dichloroethane	ND	5.0	ug/L	10.00	03/07/2002 22:18	
1,2-Dichloroethane	ND	5.0	ug/L	10.00	03/07/2002 22:18	
1,1-Dichloroethene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
cis-1,2-Dichloroethene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
trans-1,2-Dichloroethene	ND	5.0	ug/L	10.00	03/07/2002 22:18	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: **EB-11**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Water
Sample/Analysis Flag: Im (See Legend & Note section)

Lab Sample ID: 2002-03-0103-006
Received: 03/06/2002 16:10
Extracted: 03/07/2002 22:18
QC-Batch: 2002/03/07-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloropropane	ND	5.0	ug/L	10.00	03/07/2002 22:18	
cis-1,3-Dichloropropene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
trans-1,3-Dichloropropene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Ethylbenzene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Hexachlorobutadiene	ND	10	ug/L	10.00	03/07/2002 22:18	
2-Hexanone	ND	500	ug/L	10.00	03/07/2002 22:18	
Isopropylbenzene	14	5.0	ug/L	10.00	03/07/2002 22:18	
p-Isopropyltoluene	ND	10	ug/L	10.00	03/07/2002 22:18	
Methylene chloride	ND	50	ug/L	10.00	03/07/2002 22:18	
4-Methyl-2-pentanone (MIBK)	ND	500	ug/L	10.00	03/07/2002 22:18	
Naphthalene	16	10	ug/L	10.00	03/07/2002 22:18	
n-Propylbenzene	ND	10	ug/L	10.00	03/07/2002 22:18	
Styrene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	10.00	03/07/2002 22:18	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Tetrachloroethene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Toluene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
1,2,3-Trichlorobenzene	ND	10	ug/L	10.00	03/07/2002 22:18	
1,2,4-Trichlorobenzene	ND	10	ug/L	10.00	03/07/2002 22:18	
1,1,1-Trichloroethane	ND	5.0	ug/L	10.00	03/07/2002 22:18	
1,1,2-Trichloroethane	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Trichloroethene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Trichlorofluoromethane	ND	10	ug/L	10.00	03/07/2002 22:18	
Trichlorotrifluoroethane	ND	5.0	ug/L	10.00	03/07/2002 22:18	
1,2,4-Trimethylbenzene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
1,3,5-Trimethylbenzene	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Vinyl acetate	ND	250	ug/L	10.00	03/07/2002 22:18	
Vinyl chloride	ND	5.0	ug/L	10.00	03/07/2002 22:18	
Total xylenes	ND	10	ug/L	10.00	03/07/2002 22:18	
Surrogate(s)						
4-Bromofluorobenzene	97.5	86-115	%	10.00	03/07/2002 22:18	
1,2-Dichloroethane-d4	97.0	76-114	%	10.00	03/07/2002 22:18	
Toluene-d8	95.8	88-110	%	10.00	03/07/2002 22:18	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
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Test Method: 8260B
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: **EB-12**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Water
Sample/Analysis Flag: o (See Legend & Note section)

Lab Sample ID: 2002-03-0103-007
Received: 03/06/2002 16:10
Extracted: 03/11/2002 16:54
QC-Batch: 2002/03/11-01.07

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	500	ug/L	100.00	03/11/2002 16:54	
Acetone	ND	5000	ug/L	100.00	03/11/2002 16:54	
Benzene	5800	50	ug/L	100.00	03/11/2002 16:54	
Bromodichloromethane	ND	50	ug/L	100.00	03/11/2002 16:54	
Bromobenzene	ND	100	ug/L	100.00	03/11/2002 16:54	
Bromochloromethane	ND	100	ug/L	100.00	03/11/2002 16:54	
Bromoform	ND	50	ug/L	100.00	03/11/2002 16:54	
Bromomethane	ND	100	ug/L	100.00	03/11/2002 16:54	
2-Butanone(MEK)	ND	5000	ug/L	100.00	03/11/2002 16:54	
n-Butylbenzene	ND	100	ug/L	100.00	03/11/2002 16:54	
sec-Butylbenzene	ND	100	ug/L	100.00	03/11/2002 16:54	
tert-Butylbenzene	ND	100	ug/L	100.00	03/11/2002 16:54	
Carbon disulfide	ND	500	ug/L	100.00	03/11/2002 16:54	
Carbon tetrachloride	ND	50	ug/L	100.00	03/11/2002 16:54	
Chlorobenzene	ND	50	ug/L	100.00	03/11/2002 16:54	
Chloroethane	ND	100	ug/L	100.00	03/11/2002 16:54	
2-Chloroethylvinyl ether	ND	500	ug/L	100.00	03/11/2002 16:54	
Chloroform	ND	100	ug/L	100.00	03/11/2002 16:54	
Chloromethane	ND	100	ug/L	100.00	03/11/2002 16:54	
2-Chlorotoluene	ND	50	ug/L	100.00	03/11/2002 16:54	
4-Chlorotoluene	ND	50	ug/L	100.00	03/11/2002 16:54	
Dibromochloromethane	ND	50	ug/L	100.00	03/11/2002 16:54	
1,2-Dichlorobenzene	ND	50	ug/L	100.00	03/11/2002 16:54	
1,3-Dichlorobenzene	ND	50	ug/L	100.00	03/11/2002 16:54	
1,4-Dichlorobenzene	ND	50	ug/L	100.00	03/11/2002 16:54	
1,3-Dichloropropane	ND	100	ug/L	100.00	03/11/2002 16:54	
2,2-Dichloropropane	ND	50	ug/L	100.00	03/11/2002 16:54	
1,1-Dichloropropene	ND	50	ug/L	100.00	03/11/2002 16:54	
1,2-Dibromo-3-chloropropane	ND	100	ug/L	100.00	03/11/2002 16:54	
1,2-Dibromoethane	ND	50	ug/L	100.00	03/11/2002 16:54	
Dibromomethane	ND	50	ug/L	100.00	03/11/2002 16:54	
Dichlorodifluoromethane	ND	50	ug/L	100.00	03/11/2002 16:54	
1,1-Dichloroethane	ND	50	ug/L	100.00	03/11/2002 16:54	
1,2-Dichloroethane	ND	50	ug/L	100.00	03/11/2002 16:54	
1,1-Dichloroethene	ND	50	ug/L	100.00	03/11/2002 16:54	
cis-1,2-Dichloroethene	ND	50	ug/L	100.00	03/11/2002 16:54	
trans-1,2-Dichloroethene	ND	50	ug/L	100.00	03/11/2002 16:54	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: **EB-12**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Water
Sample/Analysis Flag: o (See Legend & Note section)

Lab Sample ID: 2002-03-0103-007
Received: 03/06/2002 16:10
Extracted: 03/11/2002 16:54
QC-Batch: 2002/03/11-01.07

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloropropane	ND	50	ug/L	100.00	03/11/2002 16:54	
cis-1,3-Dichloropropene	ND	50	ug/L	100.00	03/11/2002 16:54	
trans-1,3-Dichloropropene	ND	50	ug/L	100.00	03/11/2002 16:54	
Ethylbenzene	ND	50	ug/L	100.00	03/11/2002 16:54	
Hexachlorobutadiene	ND	100	ug/L	100.00	03/11/2002 16:54	
2-Hexanone	ND	5000	ug/L	100.00	03/11/2002 16:54	
Isopropylbenzene	ND	50	ug/L	100.00	03/11/2002 16:54	
p-Isopropyltoluene	ND	100	ug/L	100.00	03/11/2002 16:54	
Methylene chloride	ND	500	ug/L	100.00	03/11/2002 16:54	
4-Methyl-2-pentanone (MIBK)	ND	5000	ug/L	100.00	03/11/2002 16:54	
Naphthalene	ND	100	ug/L	100.00	03/11/2002 16:54	
n-Propylbenzene	ND	100	ug/L	100.00	03/11/2002 16:54	
Styrene	ND	50	ug/L	100.00	03/11/2002 16:54	
1,1,1,2-Tetrachloroethane	ND	50	ug/L	100.00	03/11/2002 16:54	
1,1,2,2-Tetrachloroethane	ND	50	ug/L	100.00	03/11/2002 16:54	
Tetrachloroethene	ND	50	ug/L	100.00	03/11/2002 16:54	
Toluene	77	50	ug/L	100.00	03/11/2002 16:54	
1,2,3-Trichlorobenzene	ND	100	ug/L	100.00	03/11/2002 16:54	
1,2,4-Trichlorobenzene	ND	100	ug/L	100.00	03/11/2002 16:54	
1,1,1-Trichloroethane	ND	50	ug/L	100.00	03/11/2002 16:54	
1,1,2-Trichloroethane	ND	50	ug/L	100.00	03/11/2002 16:54	
Trichloroethene	ND	50	ug/L	100.00	03/11/2002 16:54	
Trichlorofluoromethane	ND	100	ug/L	100.00	03/11/2002 16:54	
Trichlorotrifluoroethane	ND	50	ug/L	100.00	03/11/2002 16:54	
1,2,4-Trimethylbenzene	ND	50	ug/L	100.00	03/11/2002 16:54	
1,3,5-Trimethylbenzene	ND	50	ug/L	100.00	03/11/2002 16:54	
Vinyl acetate	ND	2500	ug/L	100.00	03/11/2002 16:54	
Vinyl chloride	ND	50	ug/L	100.00	03/11/2002 16:54	
Total xylenes	ND	100	ug/L	100.00	03/11/2002 16:54	
Surrogate(s)						
4-Bromofluorobenzene	109.6	86-115	%	100.00	03/11/2002 16:54	
1,2-Dichloroethane-d4	98.3	76-114	%	100.00	03/11/2002 16:54	
Toluene-d8	92.9	88-110	%	100.00	03/11/2002 16:54	

Submission #: 2002-03-0103

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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Method Blank	**Water**	**QC Batch # 2002/03/07-01.60**
MB: 2002/03/07-01.60-040		Date Extracted: 03/07/2002 16:40

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	03/07/2002 16:40	
Acetone	ND	50	ug/L	03/07/2002 16:40	
Benzene	ND	0.5	ug/L	03/07/2002 16:40	
Bromodichloromethane	ND	0.5	ug/L	03/07/2002 16:40	
Bromobenzene	ND	1.0	ug/L	03/07/2002 16:40	
Bromochloromethane	ND	1.0	ug/L	03/07/2002 16:40	
Bromoform	ND	0.5	ug/L	03/07/2002 16:40	
Bromomethane	ND	1.0	ug/L	03/07/2002 16:40	
2-Butanone(MEK)	ND	50	ug/L	03/07/2002 16:40	
n-Butylbenzene	ND	1.0	ug/L	03/07/2002 16:40	
sec-Butylbenzene	ND	1.0	ug/L	03/07/2002 16:40	
tert-Butylbenzene	ND	1.0	ug/L	03/07/2002 16:40	
Carbon disulfide	ND	5.0	ug/L	03/07/2002 16:40	
Carbon tetrachloride	ND	0.5	ug/L	03/07/2002 16:40	
Chlorobenzene	ND	0.5	ug/L	03/07/2002 16:40	
Chloroethane	ND	1.0	ug/L	03/07/2002 16:40	
2-Chloroethylvinyl ether	ND	5.0	ug/L	03/07/2002 16:40	
Chloroform	ND	1.0	ug/L	03/07/2002 16:40	
Chloromethane	ND	1.0	ug/L	03/07/2002 16:40	
2-Chlorotoluene	ND	0.5	ug/L	03/07/2002 16:40	
4-Chlorotoluene	ND	0.5	ug/L	03/07/2002 16:40	
Dibromochloromethane	ND	0.5	ug/L	03/07/2002 16:40	
1,2-Dichlorobenzene	ND	0.5	ug/L	03/07/2002 16:40	
1,3-Dichlorobenzene	ND	0.5	ug/L	03/07/2002 16:40	
1,4-Dichlorobenzene	ND	0.5	ug/L	03/07/2002 16:40	
1,3-Dichloropropane	ND	1.0	ug/L	03/07/2002 16:40	
2,2-Dichloropropane	ND	0.5	ug/L	03/07/2002 16:40	
1,1-Dichloropropene	ND	0.5	ug/L	03/07/2002 16:40	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	03/07/2002 16:40	
1,2-Dibromoethane	ND	0.5	ug/L	03/07/2002 16:40	
Dibromomethane	ND	0.5	ug/L	03/07/2002 16:40	
Dichlorodifluoromethane	ND	0.5	ug/L	03/07/2002 16:40	
1,1-Dichloroethane	ND	0.5	ug/L	03/07/2002 16:40	
1,2-Dichloroethane	ND	0.5	ug/L	03/07/2002 16:40	
1,1-Dichloroethene	ND	0.5	ug/L	03/07/2002 16:40	
cis-1,2-Dichloroethene	ND	0.5	ug/L	03/07/2002 16:40	
trans-1,2-Dichloroethene	ND	0.5	ug/L	03/07/2002 16:40	
1,2-Dichloropropane	ND	0.5	ug/L	03/07/2002 16:40	
cis-1,3-Dichloropropene	ND	0.5	ug/L	03/07/2002 16:40	
trans-1,3-Dichloropropene	ND	0.5	ug/L	03/07/2002 16:40	
Ethylbenzene	ND	0.5	ug/L	03/07/2002 16:40	

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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Method Blank **Water** **QC Batch # 2002/03/07-01.60**

MB: 2002/03/07-01.60-040 Date Extracted: 03/07/2002 16:40

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	1.0	ug/L	03/07/2002 16:40	
2-Hexanone	ND	50	ug/L	03/07/2002 16:40	
Isopropylbenzene	ND	0.5	ug/L	03/07/2002 16:40	
p-Isopropyltoluene	ND	1.0	ug/L	03/07/2002 16:40	
Methylene chloride	ND	5.0	ug/L	03/07/2002 16:40	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	03/07/2002 16:40	
Naphthalene	ND	1.0	ug/L	03/07/2002 16:40	
n-Propylbenzene	ND	1.0	ug/L	03/07/2002 16:40	
Styrene	ND	0.5	ug/L	03/07/2002 16:40	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	03/07/2002 16:40	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	03/07/2002 16:40	
Tetrachloroethene	ND	0.5	ug/L	03/07/2002 16:40	
Toluene	ND	0.5	ug/L	03/07/2002 16:40	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	03/07/2002 16:40	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	03/07/2002 16:40	
1,1,1-Trichloroethane	ND	0.5	ug/L	03/07/2002 16:40	
1,1,2-Trichloroethane	ND	0.5	ug/L	03/07/2002 16:40	
Trichloroethene	ND	0.5	ug/L	03/07/2002 16:40	
Trichlorofluoromethane	ND	1.0	ug/L	03/07/2002 16:40	
Trichlorotrifluoroethane	ND	0.5	ug/L	03/07/2002 16:40	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	03/07/2002 16:40	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	03/07/2002 16:40	
Vinyl acetate	ND	25	ug/L	03/07/2002 16:40	
Vinyl chloride	ND	0.5	ug/L	03/07/2002 16:40	
Total xylenes	ND	1.0	ug/L	03/07/2002 16:40	
Surrogate(s)					
4-Bromofluorobenzene	99.8	86-115	%	03/07/2002 16:40	
1,2-Dichloroethane-d4	85.8	76-114	%	03/07/2002 16:40	
Toluene-d8	96.7	88-110	%	03/07/2002 16:40	

Submission #: 2002-03-0103

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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Method Blank **Water** **QC Batch # 2002/03/11-01.07**

MB: 2002/03/11-01.07-006 Date Extracted: 03/11/2002 12:54

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	03/11/2002 12:54	
Acetone	ND	50	ug/L	03/11/2002 12:54	
Benzene	ND	0.5	ug/L	03/11/2002 12:54	
Bromodichloromethane	ND	0.5	ug/L	03/11/2002 12:54	
Bromobenzene	ND	1.0	ug/L	03/11/2002 12:54	
Bromochloromethane	ND	1.0	ug/L	03/11/2002 12:54	
Bromoform	ND	0.5	ug/L	03/11/2002 12:54	
Bromomethane	ND	1.0	ug/L	03/11/2002 12:54	
2-Butanone(MEK)	ND	50	ug/L	03/11/2002 12:54	
n-Butylbenzene	ND	1.0	ug/L	03/11/2002 12:54	
sec-Butylbenzene	ND	1.0	ug/L	03/11/2002 12:54	
tert-Butylbenzene	ND	1.0	ug/L	03/11/2002 12:54	
Carbon disulfide	ND	5.0	ug/L	03/11/2002 12:54	
Carbon tetrachloride	ND	0.5	ug/L	03/11/2002 12:54	
Chlorobenzene	ND	0.5	ug/L	03/11/2002 12:54	
Chloroethane	ND	1.0	ug/L	03/11/2002 12:54	
2-Chloroethylvinyl ether	ND	5.0	ug/L	03/11/2002 12:54	
Chloroform	ND	1.0	ug/L	03/11/2002 12:54	
Chloromethane	ND	1.0	ug/L	03/11/2002 12:54	
2-Chlorotoluene	ND	0.5	ug/L	03/11/2002 12:54	
4-Chlorotoluene	ND	0.5	ug/L	03/11/2002 12:54	
Dibromochloromethane	ND	0.5	ug/L	03/11/2002 12:54	
1,2-Dichlorobenzene	ND	0.5	ug/L	03/11/2002 12:54	
1,3-Dichlorobenzene	ND	0.5	ug/L	03/11/2002 12:54	
1,4-Dichlorobenzene	ND	0.5	ug/L	03/11/2002 12:54	
1,3-Dichloropropane	ND	1.0	ug/L	03/11/2002 12:54	
2,2-Dichloropropane	ND	0.5	ug/L	03/11/2002 12:54	
1,1-Dichloropropene	ND	0.5	ug/L	03/11/2002 12:54	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	03/11/2002 12:54	
1,2-Dibromoethane	ND	0.5	ug/L	03/11/2002 12:54	
Dibromomethane	ND	0.5	ug/L	03/11/2002 12:54	
Dichlorodifluoromethane	ND	0.5	ug/L	03/11/2002 12:54	
1,1-Dichloroethane	ND	0.5	ug/L	03/11/2002 12:54	
1,2-Dichloroethane	ND	0.5	ug/L	03/11/2002 12:54	
1,1-Dichloroethene	ND	0.5	ug/L	03/11/2002 12:54	
cis-1,2-Dichloroethene	ND	0.5	ug/L	03/11/2002 12:54	
trans-1,2-Dichloroethene	ND	0.5	ug/L	03/11/2002 12:54	
1,2-Dichloropropane	ND	0.5	ug/L	03/11/2002 12:54	
cis-1,3-Dichloropropene	ND	0.5	ug/L	03/11/2002 12:54	
trans-1,3-Dichloropropene	ND	0.5	ug/L	03/11/2002 12:54	
Ethylbenzene	ND	0.5	ug/L	03/11/2002 12:54	

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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Method Blank **Water** **QC Batch # 2002/03/11-01.07**

MB: 2002/03/11-01.07-006 Date Extracted: 03/11/2002 12:54

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	1.0	ug/L	03/11/2002 12:54	
2-Hexanone	ND	50	ug/L	03/11/2002 12:54	
Isopropylbenzene	ND	0.5	ug/L	03/11/2002 12:54	
p-Isopropyltoluene	ND	1.0	ug/L	03/11/2002 12:54	
Methylene chloride	ND	5.0	ug/L	03/11/2002 12:54	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	03/11/2002 12:54	
Naphthalene	ND	1.0	ug/L	03/11/2002 12:54	
n-Propylbenzene	ND	1.0	ug/L	03/11/2002 12:54	
Styrene	ND	0.5	ug/L	03/11/2002 12:54	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	03/11/2002 12:54	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	03/11/2002 12:54	
Tetrachloroethene	ND	0.5	ug/L	03/11/2002 12:54	
Toluene	ND	0.5	ug/L	03/11/2002 12:54	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	03/11/2002 12:54	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	03/11/2002 12:54	
1,1,1-Trichloroethane	ND	0.5	ug/L	03/11/2002 12:54	
1,1,2-Trichloroethane	ND	0.5	ug/L	03/11/2002 12:54	
Trichloroethene	ND	0.5	ug/L	03/11/2002 12:54	
Trichlorofluoromethane	ND	1.0	ug/L	03/11/2002 12:54	
Trichlorotrifluoroethane	ND	0.5	ug/L	03/11/2002 12:54	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	03/11/2002 12:54	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	03/11/2002 12:54	
Vinyl acetate	ND	25	ug/L	03/11/2002 12:54	
Vinyl chloride	ND	0.5	ug/L	03/11/2002 12:54	
Total xylenes	ND	1.0	ug/L	03/11/2002 12:54	
Surrogate(s)					
4-Bromofluorobenzene	107.9	86-115	%	03/11/2002 12:54	
1,2-Dichloroethane-d4	98.5	76-114	%	03/11/2002 12:54	
Toluene-d8	91.9	88-110	%	03/11/2002 12:54	

Submission #: 2002-03-0103

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Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/03/07-01.60**

LCS: 2002/03/07-01.60-049 Extracted: 03/07/2002 14:25 Analyzed: 03/07/2002 14:25

LCSD: 2002/03/07-01.60-050 Extracted: 03/07/2002 14:59 Analyzed: 03/07/2002 14:59

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	17.9	17.8	20.0	20.0	89.5	89.0	0.6	69-129	20		
Chlorobenzene	19.7	20.1	20.0	20.0	98.5	100.5	2.0	61-121	20		
1,1-Dichloroethene	16.5	16.1	20.0	20.0	82.5	80.5	2.5	65-125	20		
Toluene	18.3	18.0	20.0	20.0	91.5	90.0	1.7	70-130	20		
Trichloroethene	17.2	16.9	20.0	20.0	86.0	84.5	1.8	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	483	493	500	500	96.6	98.6		86-115	0		
1,2-Dichloroethane-d4	533	486	500	500	106.6	97.2		76-114	0		
Toluene-d8	475	480	500	500	95.0	96.0		88-110	0		

Submission #: 2002-03-0103

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Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/03/11-01.07**

LCS: 2002/03/11-01.07-004 Extracted: 03/11/2002 12:06 Analyzed: 03/11/2002 12:06

LCSD: 2002/03/11-01.07-005 Extracted: 03/11/2002 12:30 Analyzed: 03/11/2002 12:30

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	16.7	18.0	20.0	20.0	83.5	90.0	7.5	69-129	20		
Chlorobenzene	18.3	20.1	20.0	20.0	91.5	100.5	9.4	61-121	20		
1,1-Dichloroethene	20.6	22.2	20.0	20.0	103.0	111.0	7.5	65-125	20		
Toluene	16.4	17.7	20.0	20.0	82.0	88.5	7.6	70-130	20		
Trichloroethene	17.7	19.6	20.0	20.0	88.5	98.0	10.2	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	516	522	500	500	103.2	104.4		86-115			
1,2-Dichloroethane-d4	467	481	500	500	93.4	96.2		76-114			
Toluene-d8	464	460	500	500	92.8	92.0		88-110			

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Volatile Organic Compounds by 8260B (Low Level)

Legend & Notes

Test Method: 8260B Prep Method: 5030B

Analysis Flags

lrn

Reporting limits raised due to high level of non-target analyte materials.

Analysis Flags

o

Reporting limits were raised due to high level of analyte present in the sample.

Submission #: 2002-03-0103

Volatile Organic Compounds by 8260B (Low Level)

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-10 9-9.5	Soil	03/05/2002	17

Submission #: 2002-03-0103

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Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Amiola

Test Method: 8260B
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**EB-10 9-9.5**	Lab Sample ID:	2002-03-0103-017
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 20:59
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.09
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Acetone	ND	230	ug/Kg	4.67	03/07/2002 20:59	
Benzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Bromodichloromethane	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Bromobenzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Bromochloromethane	ND	93	ug/Kg	4.67	03/07/2002 20:59	
Bromoform	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Bromomethane	ND	47	ug/Kg	4.67	03/07/2002 20:59	
2-Butanone(MEK)	ND	230	ug/Kg	4.67	03/07/2002 20:59	
n-Butylbenzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
sec-Butylbenzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
tert-Butylbenzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Carbon disulfide	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Carbon tetrachloride	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Chlorobenzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Chloroethane	ND	47	ug/Kg	4.67	03/07/2002 20:59	
2-Chloroethylvinyl ether	ND	230	ug/Kg	4.67	03/07/2002 20:59	
Chloroform	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Chloromethane	ND	47	ug/Kg	4.67	03/07/2002 20:59	
2-Chlorotoluene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
4-Chlorotoluene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Dibromochloromethane	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,2-Dichlorobenzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,3-Dichlorobenzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,4-Dichlorobenzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,3-Dichloropropane	ND	23	ug/Kg	4.67	03/07/2002 20:59	
2,2-Dichloropropane	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,1-Dichloropropene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,2-Dibromo-3-chloropropane	ND	230	ug/Kg	4.67	03/07/2002 20:59	
1,2-Dibromoethane	ND	47	ug/Kg	4.67	03/07/2002 20:59	
Dibromomethane	ND	47	ug/Kg	4.67	03/07/2002 20:59	
Dichlorodifluoromethane	ND	47	ug/Kg	4.67	03/07/2002 20:59	
1,1-Dichloroethane	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,2-Dichloroethane	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,1-Dichloroethene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
cis-1,2-Dichloroethene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
trans-1,2-Dichloroethene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,2-Dichloropropane	ND	23	ug/Kg	4.67	03/07/2002 20:59	

Submission #: 2002-03-0103

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Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**EB-10 9-9.5**	Lab Sample ID:	2002-03-0103-017
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 20:59
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.09
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
trans-1,3-Dichloropropene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Ethylbenzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Hexachlorobutadiene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
2-Hexanone	ND	230	ug/Kg	4.67	03/07/2002 20:59	
Isopropylbenzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
p-Isopropyltoluene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Methylene chloride	ND	23	ug/Kg	4.67	03/07/2002 20:59	
4-Methyl-2-pentanone (MIBK)	ND	230	ug/Kg	4.67	03/07/2002 20:59	
Naphthalene	ND	47	ug/Kg	4.67	03/07/2002 20:59	
n-Propylbenzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Styrene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,1,1,2-Tetrachloroethane	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,1,2,2-Tetrachloroethane	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Tetrachloroethene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Toluene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,2,3-Trichlorobenzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,2,4-Trichlorobenzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,1,1-Trichloroethane	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,1,2-Trichloroethane	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Trichloroethene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Trichlorofluoromethane	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Trichlorotrifluoroethane	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,2,4-Trimethylbenzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
1,3,5-Trimethylbenzene	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Vinyl acetate	ND	230	ug/Kg	4.67	03/07/2002 20:59	
Vinyl chloride	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Total xylenes	ND	23	ug/Kg	4.67	03/07/2002 20:59	
Surrogate(s)						
4-Bromofluorobenzene	108.7	74-121	%	4.67	03/07/2002 20:59	
1,2-Dichloroethane-d4	116.8	70-121	%	4.67	03/07/2002 20:59	
Toluene-d8	116.5	81-117	%	4.67	03/07/2002 20:59	

Submission #: 2002-03-0103

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Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5035

Method Blank **Soil** **QC Batch # 2002/03/07-01.09**

MB: 2002/03/07-01.09-004 Date Extracted: 03/07/2002 14:37

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	03/07/2002 14:37	
Acetone	ND	50	ug/Kg	03/07/2002 14:37	
Benzene	ND	5.0	ug/Kg	03/07/2002 14:37	
Bromodichloromethane	ND	5.0	ug/Kg	03/07/2002 14:37	
Bromobenzene	ND	5.0	ug/Kg	03/07/2002 14:37	
Bromochloromethane	ND	20	ug/Kg	03/07/2002 14:37	
Bromoform	ND	5.0	ug/Kg	03/07/2002 14:37	
Bromomethane	ND	10	ug/Kg	03/07/2002 14:37	
2-Butanone(MEK)	ND	50	ug/Kg	03/07/2002 14:37	
n-Butylbenzene	ND	5.0	ug/Kg	03/07/2002 14:37	
sec-Butylbenzene	ND	5.0	ug/Kg	03/07/2002 14:37	
tert-Butylbenzene	ND	5.0	ug/Kg	03/07/2002 14:37	
Carbon disulfide	ND	5.0	ug/Kg	03/07/2002 14:37	
Carbon tetrachloride	ND	5.0	ug/Kg	03/07/2002 14:37	
Chlorobenzene	ND	5.0	ug/Kg	03/07/2002 14:37	
Chloroethane	ND	10	ug/Kg	03/07/2002 14:37	
2-Chloroethylvinyl ether	ND	50	ug/Kg	03/07/2002 14:37	
Chloroform	ND	5.0	ug/Kg	03/07/2002 14:37	
Chloromethane	ND	10	ug/Kg	03/07/2002 14:37	
2-Chlorotoluene	ND	5.0	ug/Kg	03/07/2002 14:37	
4-Chlorotoluene	ND	5.0	ug/Kg	03/07/2002 14:37	
Dibromochloromethane	ND	5.0	ug/Kg	03/07/2002 14:37	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	03/07/2002 14:37	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	03/07/2002 14:37	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	03/07/2002 14:37	
1,3-Dichloropropane	ND	5.0	ug/Kg	03/07/2002 14:37	
2,2-Dichloropropane	ND	5.0	ug/Kg	03/07/2002 14:37	
1,1-Dichloropropene	ND	5.0	ug/Kg	03/07/2002 14:37	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	03/07/2002 14:37	
1,2-Dibromoethane	ND	10	ug/Kg	03/07/2002 14:37	
Dibromomethane	ND	10	ug/Kg	03/07/2002 14:37	
Dichlorodifluoromethane	ND	10	ug/Kg	03/07/2002 14:37	
1,1-Dichloroethane	ND	5.0	ug/Kg	03/07/2002 14:37	
1,2-Dichloroethane	ND	5.0	ug/Kg	03/07/2002 14:37	
1,1-Dichloroethene	ND	5.0	ug/Kg	03/07/2002 14:37	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	03/07/2002 14:37	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	03/07/2002 14:37	
1,2-Dichloropropane	ND	5.0	ug/Kg	03/07/2002 14:37	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	03/07/2002 14:37	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	03/07/2002 14:37	
Ethylbenzene	ND	5.0	ug/Kg	03/07/2002 14:37	

Submission #: 2002-03-0103

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Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5035

Method Blank **Soil** **QC Batch # 2002/03/07-01.09**

MB: 2002/03/07-01.09-004 Date Extracted: 03/07/2002 14:37

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	5.0	ug/Kg	03/07/2002 14:37	
2-Hexanone	ND	50	ug/Kg	03/07/2002 14:37	
Isopropylbenzene	ND	5.0	ug/Kg	03/07/2002 14:37	
p-Isopropyltoluene	ND	5.0	ug/Kg	03/07/2002 14:37	
Methylene chloride	ND	5.0	ug/Kg	03/07/2002 14:37	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	03/07/2002 14:37	
Naphthalene	ND	10	ug/Kg	03/07/2002 14:37	
n-Propylbenzene	ND	5.0	ug/Kg	03/07/2002 14:37	
Styrene	ND	5.0	ug/Kg	03/07/2002 14:37	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	03/07/2002 14:37	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	03/07/2002 14:37	
Tetrachloroethene	ND	5.0	ug/Kg	03/07/2002 14:37	
Toluene	ND	5.0	ug/Kg	03/07/2002 14:37	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	03/07/2002 14:37	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	03/07/2002 14:37	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	03/07/2002 14:37	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	03/07/2002 14:37	
Trichloroethene	ND	5.0	ug/Kg	03/07/2002 14:37	
Trichlorofluoromethane	ND	5.0	ug/Kg	03/07/2002 14:37	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	03/07/2002 14:37	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	03/07/2002 14:37	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	03/07/2002 14:37	
Vinyl acetate	ND	50	ug/Kg	03/07/2002 14:37	
Vinyl chloride	ND	5.0	ug/Kg	03/07/2002 14:37	
Total xylenes	ND	5.0	ug/Kg	03/07/2002 14:37	
Surrogate(s)					
4-Bromofluorobenzene	97.3	74-121	%	03/07/2002 14:37	
1,2-Dichloroethane-d4	105.2	70-121	%	03/07/2002 14:37	
Toluene-d8	103.4	81-117	%	03/07/2002 14:37	

Submission #: 2002-03-0103

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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/07-01.09**

LCS: 2002/03/07-01.09-002 Extracted: 03/07/2002 13:40 Analyzed: 03/07/2002 13:40

LCSD: 2002/03/07-01.09-003 Extracted: 03/07/2002 14:11 Analyzed: 03/07/2002 14:11

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	87.5	85.9	100.0	100.0	87.5	85.9	1.8	69-129	20		
Chlorobenzene	87.9	83.8	100.0	100.0	87.9	83.8	4.8	61-121	20		
1,1-Dichloroethene	77.1	77.3	100.0	100.0	77.1	77.3	0.3	65-125	20		
Toluene	90.8	85.8	100.0	100.0	90.8	85.8	5.7	70-130	20		
Trichloroethene	92.8	84.3	100.0	100.0	92.8	84.3	9.6	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	499	504	500	500	99.8	100.8		74-121			
1,2-Dichloroethane-d4	486	473	500	500	97.2	94.6		70-121			
Toluene-d8	512	502	500	500	102.4	100.4		81-117			

Submission #: 2002-03-0103

Volatile Organic Compounds by 8260B (HIgh Level)

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-7 9-9.5	Soil	03/05/2002	8
EB-9 7.5-8	Soil	03/05/2002	13
EB-12 6-6.5	Soil	03/05/2002	22

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (HIgh Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: **EB-7 9-9.5**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Soil

Lab Sample ID: 2002-03-0103-008
Received: 03/06/2002 16:10
Extracted: 03/12/2002 12:47
QC-Batch: 2002/03/12-01.06

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	2500	ug/Kg	200.00	03/12/2002 12:47	
Acetone	ND	25000	ug/Kg	200.00	03/12/2002 12:47	
Benzene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Bromodichloromethane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Bromoform	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Bromomethane	ND	500	ug/Kg	200.00	03/12/2002 12:47	
Carbon tetrachloride	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Chlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Chloroethane	ND	500	ug/Kg	200.00	03/12/2002 12:47	
2-Butanone(MEK)	ND	25000	ug/Kg	200.00	03/12/2002 12:47	
2-Chloroethylvinyl ether	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Chloroform	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Chloromethane	ND	500	ug/Kg	200.00	03/12/2002 12:47	
Dibromochloromethane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,2-Dichlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,3-Dichlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,4-Dichlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,3-Dichloropropane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
2,2-Dichloropropane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,1-Dichloropropene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,2-Dibromo-3-chloropropane	ND	2500	ug/Kg	200.00	03/12/2002 12:47	
1,2-Dibromoethane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Dibromomethane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Dichlorodifluoromethane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,1-Dichloroethane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,2-Dichloroethane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,1-Dichloroethene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
cis-1,2-Dichloroethene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
trans-1,2-Dichloroethene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,2-Dichloropropane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
cis-1,3-Dichloropropene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
trans-1,3-Dichloropropene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Ethylbenzene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Hexachlorobutadiene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
2-Hexanone	ND	25000	ug/Kg	200.00	03/12/2002 12:47	
Methylene chloride	ND	2500	ug/Kg	200.00	03/12/2002 12:47	
4-Methyl-2-pentanone (MIBK)	ND	25000	ug/Kg	200.00	03/12/2002 12:47	
Naphthalene	910	250	ug/Kg	200.00	03/12/2002 12:47	

Submission #: 2002-03-0103

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Volatile Organic Compounds by 8260B (High Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: **EB-7 9-9.5**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Soil

Lab Sample ID: 2002-03-0103-008
Received: 03/06/2002 16:10
Extracted: 03/12/2002 12:47
QC-Batch: 2002/03/12-01.06

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Styrene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Tetrachloroethene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Toluene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,1,1-Trichloroethane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,1,2-Trichloroethane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Trichloroethene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Vinyl acetate	ND	2500	ug/Kg	200.00	03/12/2002 12:47	
Vinyl chloride	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Total xylenes	ND	500	ug/Kg	200.00	03/12/2002 12:47	
Trichlorotrifluoroethane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Carbon disulfide	ND	500	ug/Kg	200.00	03/12/2002 12:47	
Isopropylbenzene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Bromobenzene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Bromochloromethane	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Trichlorofluoromethane	ND	1000	ug/Kg	200.00	03/12/2002 12:47	
1,2,3-Trichlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,2,4-Trichlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,2,4-Trimethylbenzene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
1,3,5-Trimethylbenzene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
2-Chlorotoluene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
4-Chlorotoluene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
n-Butylbenzene	540	250	ug/Kg	200.00	03/12/2002 12:47	
n-Propylbenzene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
p-Isopropyltoluene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
sec-Butylbenzene	320	250	ug/Kg	200.00	03/12/2002 12:47	
tert-Butylbenzene	ND	250	ug/Kg	200.00	03/12/2002 12:47	
Surrogate(s)						
4-Bromofluorobenzene	106.2	74-121	%	200.00	03/12/2002 12:47	
1,2-Dichloroethane-d4	101.1	70-121	%	200.00	03/12/2002 12:47	
Toluene-d8	104.2	81-117	%	200.00	03/12/2002 12:47	

Submission #: 2002-03-0103

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Volatile Organic Compounds by 8260B (High Level)

Lowney & Associates Oakland
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Test Method: 8260B
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: **EB-9 7.5-8**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Soil

Lab Sample ID: 2002-03-0103-013
Received: 03/06/2002 16:10
Extracted: 03/12/2002 13:23
QC-Batch: 2002/03/12-01.06

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	2500	ug/Kg	200.00	03/12/2002 13:23	
Acetone	ND	25000	ug/Kg	200.00	03/12/2002 13:23	
Benzene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Bromodichloromethane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Bromoform	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Bromomethane	ND	500	ug/Kg	200.00	03/12/2002 13:23	
Carbon tetrachloride	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Chlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Chloroethane	ND	500	ug/Kg	200.00	03/12/2002 13:23	
2-Butanone(MEK)	ND	25000	ug/Kg	200.00	03/12/2002 13:23	
2-Chloroethylvinyl ether	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Chloroform	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Chloromethane	ND	500	ug/Kg	200.00	03/12/2002 13:23	
Dibromochloromethane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,2-Dichlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,3-Dichlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,4-Dichlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,3-Dichloropropane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
2,2-Dichloropropane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,1-Dichloropropene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,2-Dibromo-3-chloropropane	ND	2500	ug/Kg	200.00	03/12/2002 13:23	
1,2-Dibromoethane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Dibromomethane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Dichlorodifluoromethane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,1-Dichloroethane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,2-Dichloroethane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,1-Dichloroethene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
cis-1,2-Dichloroethene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
trans-1,2-Dichloroethene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,2-Dichloropropane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
cis-1,3-Dichloropropene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
trans-1,3-Dichloropropene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Ethylbenzene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Hexachlorobutadiene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
2-Hexanone	ND	25000	ug/Kg	200.00	03/12/2002 13:23	
Methylene chloride	ND	2500	ug/Kg	200.00	03/12/2002 13:23	
4-Methyl-2-pentanone (MIBK)	ND	25000	ug/Kg	200.00	03/12/2002 13:23	
Naphthalene	ND	250	ug/Kg	200.00	03/12/2002 13:23	

Submission #: 2002-03-0103

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Volatile Organic Compounds by 8260B (High Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**EB-9 7.5-8**	Lab Sample ID:	2002-03-0103-013
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/12/2002 13:23
Sampled:	03/05/2002	QC-Batch:	2002/03/12-01.06
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Styrene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Tetrachloroethene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Toluene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,1,1-Trichloroethane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,1,2-Trichloroethane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Trichloroethene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Vinyl acetate	ND	2500	ug/Kg	200.00	03/12/2002 13:23	
Vinyl chloride	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Total xylenes	ND	500	ug/Kg	200.00	03/12/2002 13:23	
Trichlorotrifluoroethane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Carbon disulfide	ND	500	ug/Kg	200.00	03/12/2002 13:23	
Isopropylbenzene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Bromobenzene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Bromochloromethane	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Trichlorofluoromethane	ND	1000	ug/Kg	200.00	03/12/2002 13:23	
1,2,3-Trichlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,2,4-Trichlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,2,4-Trimethylbenzene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
1,3,5-Trimethylbenzene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
2-Chlorotoluene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
4-Chlorotoluene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
n-Butylbenzene	640	250	ug/Kg	200.00	03/12/2002 13:23	
n-Propylbenzene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
p-Isopropyltoluene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
sec-Butylbenzene	520	250	ug/Kg	200.00	03/12/2002 13:23	
tert-Butylbenzene	ND	250	ug/Kg	200.00	03/12/2002 13:23	
Surrogate(s)						
4-Bromofluorobenzene	95.9	74-121	%	200.00	03/12/2002 13:23	
1,2-Dichloroethane-d4	92.1	70-121	%	200.00	03/12/2002 13:23	
Toluene-d8	95.6	81-117	%	200.00	03/12/2002 13:23	

Submission #: 2002-03-0103

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Volatile Organic Compounds by 8260B (High Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**EB-12 6-6.5**	Lab Sample ID:	2002-03-0103-022
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/12/2002 13:59
Sampled:	03/05/2002	QC-Batch:	2002/03/12-01.06
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	2500	ug/Kg	200.00	03/12/2002 13:59	
Acetone	ND	25000	ug/Kg	200.00	03/12/2002 13:59	
Benzene	3400	250	ug/Kg	200.00	03/12/2002 13:59	
Bromodichloromethane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Bromoform	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Bromomethane	ND	500	ug/Kg	200.00	03/12/2002 13:59	
Carbon tetrachloride	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Chlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Chloroethane	ND	500	ug/Kg	200.00	03/12/2002 13:59	
2-Butanone(MEK)	ND	25000	ug/Kg	200.00	03/12/2002 13:59	
2-Chloroethylvinyl ether	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Chloroform	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Chloromethane	ND	500	ug/Kg	200.00	03/12/2002 13:59	
Dibromochloromethane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
1,2-Dichlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
1,3-Dichlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
1,4-Dichlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
1,3-Dichloropropane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
2,2-Dichloropropane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
1,1-Dichloropropene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
1,2-Dibromo-3-chloropropane	ND	2500	ug/Kg	200.00	03/12/2002 13:59	
1,2-Dibromoethane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Dibromomethane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Dichlorodifluoromethane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
1,1-Dichloroethane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
1,2-Dichloroethane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
1,1-Dichloroethene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
cis-1,2-Dichloroethene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
trans-1,2-Dichloroethene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
1,2-Dichloropropane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
cis-1,3-Dichloropropene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
trans-1,3-Dichloropropene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Ethylbenzene	9500	250	ug/Kg	200.00	03/12/2002 13:59	
Hexachlorobutadiene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
2-Hexanone	ND	25000	ug/Kg	200.00	03/12/2002 13:59	
Methylene chloride	ND	2500	ug/Kg	200.00	03/12/2002 13:59	
4-Methyl-2-pentanone (MIBK)	ND	25000	ug/Kg	200.00	03/12/2002 13:59	
Naphthalene	4000	250	ug/Kg	200.00	03/12/2002 13:59	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (HIgh Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**EB-12 6-6.5**	Lab Sample ID:	2002-03-0103-022
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/12/2002 13:59
Sampled:	03/05/2002	QC-Batch:	2002/03/12-01.06
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Styrene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Tetrachloroethene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Toluene	15000	250	ug/Kg	200.00	03/12/2002 13:59	
1,1,1-Trichloroethane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
1,1,2-Trichloroethane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Trichloroethene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Vinyl acetate	ND	2500	ug/Kg	200.00	03/12/2002 13:59	
Vinyl chloride	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Total xylenes	43000	500	ug/Kg	200.00	03/12/2002 13:59	
Trichlorotrifluoroethane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Carbon disulfide	ND	500	ug/Kg	200.00	03/12/2002 13:59	
Isopropylbenzene	1100	250	ug/Kg	200.00	03/12/2002 13:59	
Bromobenzene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Bromochloromethane	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Trichlorofluoromethane	ND	1000	ug/Kg	200.00	03/12/2002 13:59	
1,2,3-Trichlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
1,2,4-Trichlorobenzene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
1,2,4-Trimethylbenzene	27000	250	ug/Kg	200.00	03/12/2002 13:59	
1,3,5-Trimethylbenzene	7500	250	ug/Kg	200.00	03/12/2002 13:59	
2-Chlorotoluene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
4-Chlorotoluene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
n-Butylbenzene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
n-Propylbenzene	3900	250	ug/Kg	200.00	03/12/2002 13:59	
p-Isopropyltoluene	400	250	ug/Kg	200.00	03/12/2002 13:59	
sec-Butylbenzene	640	250	ug/Kg	200.00	03/12/2002 13:59	
tert-Butylbenzene	ND	250	ug/Kg	200.00	03/12/2002 13:59	
Surrogate(s)						
4-Bromofluorobenzene	97.4	74-121	%	200.00	03/12/2002 13:59	
1,2-Dichloroethane-d4	97.0	70-121	%	200.00	03/12/2002 13:59	
Toluene-d8	100.3	81-117	%	200.00	03/12/2002 13:59	

Submission #: 2002-03-0103

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Volatile Organic Compounds by 8260B (HIgh Level)

Batch QC report

Test Method: 8260B Prep Method: 5035

Method Blank **Soil** **QC Batch # 2002/03/12-01.06**

MB: 2002/03/12-01.06-004 Date Extracted: 03/12/2002 12:00

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	2500	ug/Kg	03/12/2002 12:00	
Acetone	ND	25000	ug/Kg	03/12/2002 12:00	
Benzene	ND	250	ug/Kg	03/12/2002 12:00	
Bromodichloromethane	ND	250	ug/Kg	03/12/2002 12:00	
Bromoform	ND	250	ug/Kg	03/12/2002 12:00	
Bromomethane	ND	500	ug/Kg	03/12/2002 12:00	
Carbon tetrachloride	ND	250	ug/Kg	03/12/2002 12:00	
Chlorobenzene	ND	250	ug/Kg	03/12/2002 12:00	
Chloroethane	ND	500	ug/Kg	03/12/2002 12:00	
2-Butanone(MEK)	ND	25000	ug/Kg	03/12/2002 12:00	
2-Chloroethylvinyl ether	ND	250	ug/Kg	03/12/2002 12:00	
Chloroform	ND	250	ug/Kg	03/12/2002 12:00	
Chloromethane	ND	500	ug/Kg	03/12/2002 12:00	
Dibromochloromethane	ND	250	ug/Kg	03/12/2002 12:00	
1,2-Dichlorobenzene	ND	250	ug/Kg	03/12/2002 12:00	
1,3-Dichlorobenzene	ND	250	ug/Kg	03/12/2002 12:00	
1,4-Dichlorobenzene	ND	250	ug/Kg	03/12/2002 12:00	
1,3-Dichloropropane	ND	250	ug/Kg	03/12/2002 12:00	
2,2-Dichloropropane	ND	250	ug/Kg	03/12/2002 12:00	
1,1-Dichloropropene	ND	250	ug/Kg	03/12/2002 12:00	
1,2-Dibromo-3-chloropropane	ND	2500	ug/Kg	03/12/2002 12:00	
1,2-Dibromoethane	ND	250	ug/Kg	03/12/2002 12:00	
Dibromomethane	ND	250	ug/Kg	03/12/2002 12:00	
Dichlorodifluoromethane	ND	250	ug/Kg	03/12/2002 12:00	
1,1-Dichloroethane	ND	250	ug/Kg	03/12/2002 12:00	
1,2-Dichloroethane	ND	250	ug/Kg	03/12/2002 12:00	
1,1-Dichloroethene	ND	250	ug/Kg	03/12/2002 12:00	
cis-1,2-Dichloroethene	ND	250	ug/Kg	03/12/2002 12:00	
trans-1,2-Dichloroethene	ND	250	ug/Kg	03/12/2002 12:00	
1,2-Dichloropropane	ND	250	ug/Kg	03/12/2002 12:00	
cis-1,3-Dichloropropene	ND	250	ug/Kg	03/12/2002 12:00	
trans-1,3-Dichloropropene	ND	250	ug/Kg	03/12/2002 12:00	
Ethylbenzene	ND	250	ug/Kg	03/12/2002 12:00	
Hexachlorobutadiene	ND	250	ug/Kg	03/12/2002 12:00	
2-Hexanone	ND	25000	ug/Kg	03/12/2002 12:00	
Methylene chloride	ND	2500	ug/Kg	03/12/2002 12:00	
4-Methyl-2-pentanone (MIBK)	ND	25000	ug/Kg	03/12/2002 12:00	
Naphthalene	ND	250	ug/Kg	03/12/2002 12:00	
Styrene	ND	250	ug/Kg	03/12/2002 12:00	
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	03/12/2002 12:00	
Tetrachloroethene	ND	250	ug/Kg	03/12/2002 12:00	

Submission #: 2002-03-0103

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Volatile Organic Compounds by 8260B (High Level)

Batch QC report

Test Method: 8260B Prep Method: 5035

Method Blank **Soil** **QC Batch # 2002/03/12-01.06**

MB: 2002/03/12-01.06-004 Date Extracted: 03/12/2002 12:00

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Toluene	ND	250	ug/Kg	03/12/2002 12:00	
1,1,1-Trichloroethane	ND	250	ug/Kg	03/12/2002 12:00	
1,1,2-Trichloroethane	ND	250	ug/Kg	03/12/2002 12:00	
Trichloroethene	ND	250	ug/Kg	03/12/2002 12:00	
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	03/12/2002 12:00	
Vinyl acetate	ND	2500	ug/Kg	03/12/2002 12:00	
Vinyl chloride	ND	250	ug/Kg	03/12/2002 12:00	
Total xylenes	ND	500	ug/Kg	03/12/2002 12:00	
Trichlorotrifluoroethane	ND	250	ug/Kg	03/12/2002 12:00	
Carbon disulfide	ND	500	ug/Kg	03/12/2002 12:00	
Isopropylbenzene	ND	250	ug/Kg	03/12/2002 12:00	
Bromobenzene	ND	250	ug/Kg	03/12/2002 12:00	
Bromochloromethane	ND	250	ug/Kg	03/12/2002 12:00	
Trichlorofluoromethane	ND	1000	ug/Kg	03/12/2002 12:00	
1,2,3-Trichlorobenzene	ND	250	ug/Kg	03/12/2002 12:00	
1,2,4-Trichlorobenzene	ND	250	ug/Kg	03/12/2002 12:00	
1,2,4-Trimethylbenzene	ND	250	ug/Kg	03/12/2002 12:00	
1,3,5-Trimethylbenzene	ND	250	ug/Kg	03/12/2002 12:00	
2-Chlorotoluene	ND	250	ug/Kg	03/12/2002 12:00	
4-Chlorotoluene	ND	250	ug/Kg	03/12/2002 12:00	
n-Butylbenzene	ND	250	ug/Kg	03/12/2002 12:00	
n-Propylbenzene	ND	250	ug/Kg	03/12/2002 12:00	
p-Isopropyltoluene	ND	250	ug/Kg	03/12/2002 12:00	
sec-Butylbenzene	ND	250	ug/Kg	03/12/2002 12:00	
tert-Butylbenzene	ND	250	ug/Kg	03/12/2002 12:00	
Surrogate(s)					
4-Bromofluorobenzene	108.8	74-121	%	03/12/2002 12:00	
1,2-Dichloroethane-d4	109.0	70-121	%	03/12/2002 12:00	
Toluene-d8	107.9	81-117	%	03/12/2002 12:00	

Submission #: 2002-03-0103

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Volatile Organic Compounds by 8260B (High Level)

Batch QC report

Test Method: 8260B Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/12-01.06**

LCS: 2002/03/12-01.06-002 Extracted: 03/12/2002 10:53 Analyzed: 03/12/2002 10:53

LCSD: 2002/03/12-01.06-003 Extracted: 03/12/2002 11:26 Analyzed: 03/12/2002 11:26

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	8780	9300	10000	10000	87.8	93.0	5.8	69-129	20		
Chlorobenzene	8460	9100	10000	10000	84.6	91.0	7.3	61-121	20		
1,1-Dichloroethene	7270	7250	10000	10000	72.7	72.5	0.3	65-125	20		
Toluene	8740	9590	10000	10000	87.4	95.9	9.3	70-130	20		
Trichloroethene	8430	8950	10000	10000	84.3	89.5	6.0	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	274	260	250	250	109.6	104.0		74-121			
1,2-Dichloroethane-d4	258	255	250	250	103.2	102.0		70-121			
Toluene-d8	267	258	250	250	106.8	103.2		81-117			

Submission #: 2002-03-0103

Gasoline

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-1	Water	03/04/2002	1
EB-7	Water	03/05/2002	2
EB-8	Water	03/05/2002	3
EB-9	Water	03/05/2002	4
EB-10	Water	03/05/2002	5
EB-11	Water	03/05/2002	6
EB-12	Water	03/05/2002	7

Submission #: 2002-03-0103

Gasoline

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**EB-1**	Lab Sample ID:	2002-03-0103-001
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 17:46
Sampled:	03/04/2002	QC-Batch:	2002/03/11-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	03/11/2002 17:46	
Surrogate(s)						
4-Bromofluorobenzene-FID	84.5	50-150	%	1.00	03/11/2002 17:46	

Submission #: 2002-03-0103

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Gasoline

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 5030

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Sample ID:	**EB-7**	Lab Sample ID:	2002-03-0103-002
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/12/2002 10:39
Sampled:	03/05/2002	QC-Batch:	2002/03/12-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	260	50	ug/L	1.00	03/12/2002 10:39	g
Surrogate(s)						
4-Bromofluorobenzene-FID	83.5	50-150	%	1.00	03/12/2002 10:39	

Submission #: 2002-03-0103

Gasoline

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**EB-8**	Lab Sample ID:	2002-03-0103-003
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 18:50
Sampled:	03/05/2002	QC-Batch:	2002/03/11-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	03/11/2002 18:50	
Surrogate(s)						
4-Bromofluorobenzene-FID	67.3	50-150	%	1.00	03/11/2002 18:50	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Gasoline

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 5030

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Sample ID:	**EB-9**	Lab Sample ID:	2002-03-0103-004
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 19:22
Sampled:	03/05/2002	QC-Batch:	2002/03/11-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	17000	500	ug/L	10.00	03/11/2002 19:22	g
Surrogate(s)						
4-Bromofluorobenzene-FID	101.8	50-150	%	10.00	03/11/2002 19:22	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Gasoline

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**EB-10**	Lab Sample ID:	2002-03-0103-005
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 19:55
Sampled:	03/05/2002	QC-Batch:	2002/03/11-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	5900	500	ug/L	10.00	03/11/2002 19:55	g
Surrogate(s)						
4-Bromofluorobenzene-FID	84.4	50-150	%	10.00	03/11/2002 19:55	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Gasoline

Lowney & Associates Oakland
Attn: Mark Amiola

Test Method: 8015M
Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**EB-11**	Lab Sample ID:	2002-03-0103-006
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 20:27
Sampled:	03/05/2002	QC-Batch:	2002/03/11-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	280	50	ug/L	1.00	03/11/2002 20:27	g
Surrogate(s)						
4-Bromofluorobenzene-FID	83.6	50-150	%	1.00	03/11/2002 20:27	

Submission #: 2002-03-0103

Gasoline

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**EB-12**	Lab Sample ID:	2002-03-0103-007
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/12/2002 11:11
Sampled:	03/05/2002	QC-Batch:	2002/03/12-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	170000	10000	ug/L	200.00	03/12/2002 11:11	g
Surrogate(s)						
4-Bromofluorobenzene-FID	94.5	50-150	%	200.00	03/12/2002 11:11	

Submission #: 2002-03-0103

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CA DHS ELAP#1094

Gasoline

Batch QC report

Test Method: 8015M Prep Method: 5030

Method Blank **Water** **QC Batch # 2002/03/11-01.05**
MB: 2002/03/11-01.05-016 Date Extracted: 03/11/2002 09:13

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/11/2002 09:13	
Surrogate(s)					
4-Bromofluorobenzene-FID	94.6	50-150	%	03/11/2002 09:13	

Submission #: 2002-03-0103

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CA DHS ELAP#1094

Gasoline

Batch QC report

Test Method: 8015M Prep Method: 5030

Method Blank **Water** **QC Batch # 2002/03/12-01.05**

MB: 2002/03/12-01.05-002 Date Extracted: 03/12/2002 08:44

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/12/2002 08:44	
Surrogate(s)					
4-Bromofluorobenzene-FID	88.4	50-150	%	03/12/2002 08:44	

Submission #: 2002-03-0103

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Gasoline

Batch QC report

Test Method: 8015M Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/03/11-01.05**

LCS: 2002/03/11-01.05-017 Extracted: 03/11/2002 09:45 Analyzed: 03/11/2002 09:45

LCSD: 2002/03/11-01.05-018 Extracted: 03/11/2002 10:17 Analyzed: 03/11/2002 10:17

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	481	456	500	500	96.2	91.2	5.3	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene	515	491	500	500	103.0	98.2		50-150	0		

Submission #: 2002-03-0103

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Gasoline

Batch QC report

Test Method: 8015M Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/03/12-01.05**

LCS: 2002/03/12-01.05-003 Extracted: 03/12/2002 09:16 Analyzed: 03/12/2002 09:16

LCSD: 2002/03/12-01.05-004 Extracted: 03/12/2002 09:48 Analyzed: 03/12/2002 09:48

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	462	465	500	500	92.4	93.0	0.6	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene	481	482	500	500	96.2	96.4		50-150			

Submission #: 2002-03-0103

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Gasoline

Legend & Notes

Test Method: 8015M Prep Method: 5030

Analyte Flags

g Hydrocarbon reported in the gasoline range does not match our gasoline standard

Submission #: 2002-03-0103

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-7 14-14.5	Soil	03/05/2002	10
EB-8 12-12.5	Soil	03/05/2002	12

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M
8021B

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**EB-7 14-14.5**	Lab Sample ID:	2002-03-0103-010
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 18:06
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	8.7	1.0	mg/Kg	1.00	03/07/2002 18:06	g
Benzene	ND	0.0050	mg/Kg	1.00	03/07/2002 18:06	
Toluene	ND	0.0050	mg/Kg	1.00	03/07/2002 18:06	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/07/2002 18:06	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/07/2002 18:06	
MTBE	ND	0.0050	mg/Kg	1.00	03/07/2002 18:06	
Surrogate(s)						
Trifluorotoluene	82.1	53-125	%	1.00	03/07/2002 18:06	
4-Bromofluorobenzene-FID	100.0	58-124	%	1.00	03/07/2002 18:06	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M
8021B

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**EB-8 12-12.5**	Lab Sample ID:	2002-03-0103-012
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/12/2002 00:04
Sampled:	03/05/2002	QC-Batch:	2002/03/11-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/12/2002 00:04	
Benzene	ND	0.0050	mg/Kg	1.00	03/12/2002 00:04	
Toluene	ND	0.0050	mg/Kg	1.00	03/12/2002 00:04	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/12/2002 00:04	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/12/2002 00:04	
MTBE	ND	0.0050	mg/Kg	1.00	03/12/2002 00:04	
Surrogate(s)						
Trifluorotoluene	93.9	53-125	%	1.00	03/12/2002 00:04	
4-Bromofluorobenzene-FID	77.1	58-124	%	1.00	03/12/2002 00:04	

Submission #: 2002-03-0103

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5035

Method Blank **Soil** **QC Batch # 2002/03/07-01.03**

MB: 2002/03/07-01.03-005 Date Extracted: 03/07/2002 10:14

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	03/07/2002 10:14	
Benzene	ND	0.0050	mg/Kg	03/07/2002 10:14	
Toluene	ND	0.0050	mg/Kg	03/07/2002 10:14	
Ethyl benzene	ND	0.0050	mg/Kg	03/07/2002 10:14	
Xylene(s)	ND	0.0050	mg/Kg	03/07/2002 10:14	
MTBE	ND	0.0050	mg/Kg	03/07/2002 10:14	
Surrogate(s)					
Trifluorotoluene	95.9	53-125	%	03/07/2002 10:14	
4-Bromofluorobenzene-FID	93.4	58-124	%	03/07/2002 10:14	

Submission #: 2002-03-0103

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5035

Method Blank **Soil** **QC Batch # 2002/03/11-01.03**

MB: 2002/03/11-01.03-003 Date Extracted: 03/11/2002 08:33

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	03/11/2002 08:33	
Benzene	ND	0.0050	mg/Kg	03/11/2002 08:33	
Toluene	ND	0.0050	mg/Kg	03/11/2002 08:33	
Ethyl benzene	ND	0.0050	mg/Kg	03/11/2002 08:33	
Xylene(s)	ND	0.0050	mg/Kg	03/11/2002 08:33	
MTBE	ND	0.0050	mg/Kg	03/11/2002 08:33	
Surrogate(s)					
Trifluorotoluene	119.6	53-125	%	03/11/2002 08:33	
4-Bromofluorobenzene-FID	83.6	58-124	%	03/11/2002 08:33	

Submission #: 2002-03-0103

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/07-01.03**

LCS: 2002/03/07-01.03-006 Extracted: 03/07/2002 10:44 Analyzed: 03/07/2002 10:44

LCSD: 2002/03/07-01.03-010 Extracted: 03/07/2002 12:47 Analyzed: 03/07/2002 12:47

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0933	0.0876	0.1000	0.1000	93.3	87.6	6.3	77-123	35		
Toluene	0.0891	0.0848	0.1000	0.1000	89.1	84.8	4.9	78-122	35		
Ethyl benzene	0.0880	0.0828	0.1000	0.1000	88.0	82.8	6.1	70-130	35		
Xylene(s)	0.264	0.249	0.300	0.300	88.0	83.0	5.8	75-125	35		
Surrogate(s)											
Trifluorotoluene	437	376	500	500	87.4	75.2		53-125			

Submission #: 2002-03-0103

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/07-01.03**

LCS: 2002/03/07-01.03-008 Extracted: 03/07/2002 11:46 Analyzed: 03/07/2002 11:46

LCSD: 2002/03/07-01.03-009 Extracted: 03/07/2002 12:16 Analyzed: 03/07/2002 12:16

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.444	0.444	0.500	0.500	88.8	88.8	0.0	75-125	35		
Surrogate(s)											
4-Bromofluorobenzene	409	428	500	500	81.8	85.6		58-124			

Submission #: 2002-03-0103

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/11-01.03**

LCS: 2002/03/11-01.03-006 Extracted: 03/11/2002 10:05 Analyzed: 03/11/2002 10:05

LCSD: 2002/03/11-01.03-007 Extracted: 03/11/2002 10:36 Analyzed: 03/11/2002 10:36

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.442	0.454	0.500	0.500	88.4	90.8	2.7	75-125	35		
Surrogate(s)											
4-Bromofluorobenzene	409	422	500	500	81.8	84.4		58-124			

Submission #: 2002-03-0103

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/11-01.03**

LCS: 2002/03/11-01.03-013 Extracted: 03/11/2002 14:10 Analyzed: 03/11/2002 14:10

LCSD: 2002/03/11-01.03-005 Extracted: 03/11/2002 09:34 Analyzed: 03/11/2002 09:34

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0970	0.0867	0.1000	0.1000	97.0	86.7	11.2	77-123	35		
Toluene	0.0926	0.0850	0.1000	0.1000	92.6	85.0	8.6	78-122	35		
Ethyl benzene	0.0910	0.0839	0.1000	0.1000	91.0	83.9	8.1	70-130	35		
Xylene(s)	0.270	0.252	0.300	0.300	90.0	84.0	6.9	75-125	35		
Surrogate(s)											
Trifluorotoluene	471	429	500	500	94.2	85.8		53-125			

Submission #: 2002-03-0103

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Legend & Notes

Test Method: 8021B
8015M

Prep Method: 5035

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

Submission #: 2002-03-0103

Gas/BTEX Compounds (High Level)

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-7 9-9.5	Soil	03/05/2002	8
EB-8 6-6.5	Soil	03/05/2002	11
EB-9 7.5-8	Soil	03/05/2002	13
EB-9 14-14.5	Soil	03/05/2002	14
EB-10 6-6.5	Soil	03/05/2002	16
EB-10 9-9.5	Soil	03/05/2002	17
EB-11 6-6.5	Soil	03/05/2002	19

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**EB-7 9-9.5**	Lab Sample ID:	2002-03-0103-008
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 03:38
Sampled:	03/05/2002	QC-Batch:	2002/03/08-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	85	10	mg/Kg	1.00	03/12/2002 03:38	g
Benzene	ND	0.62	mg/Kg	1.00	03/12/2002 03:38	
Toluene	ND	0.62	mg/Kg	1.00	03/12/2002 03:38	
Ethyl benzene	ND	0.62	mg/Kg	1.00	03/12/2002 03:38	
Xylene(s)	ND	0.62	mg/Kg	1.00	03/12/2002 03:38	
MTBE	ND	0.62	mg/Kg	1.00	03/12/2002 03:38	
Surrogate(s)						
Trifluorotoluene	100.1	53-125	%	1.00	03/12/2002 03:38	
4-Bromofluorobenzene-FID	130.0	58-124	%	1.00	03/12/2002 03:38	sh

Submission #: 2002-03-0103

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Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**EB-8 6-6.5**	Lab Sample ID:	2002-03-0103-011
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 04:09
Sampled:	03/05/2002	QC-Batch:	2002/03/08-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	36	10	mg/Kg	1.00	03/12/2002 04:09	g
Benzene	ND	0.62	mg/Kg	1.00	03/12/2002 04:09	
Toluene	ND	0.62	mg/Kg	1.00	03/12/2002 04:09	
Ethyl benzene	ND	0.62	mg/Kg	1.00	03/12/2002 04:09	
Xylene(s)	ND	0.62	mg/Kg	1.00	03/12/2002 04:09	
MTBE	ND	0.62	mg/Kg	1.00	03/12/2002 04:09	
Surrogate(s)						
Trifluorotoluene	89.2	53-125	%	1.00	03/12/2002 04:09	
4-Bromofluorobenzene-FID	108.7	58-124	%	1.00	03/12/2002 04:09	

Submission #: 2002-03-0103

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Gas/BTEX Compounds (High Level)

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Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

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Sample ID:	**EB-9 7.5-8**	Lab Sample ID:	2002-03-0103-013
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 04:39
Sampled:	03/05/2002	QC-Batch:	2002/03/08-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	260	10	mg/Kg	1.00	03/12/2002 04:39	g
Benzene	ND	0.62	mg/Kg	1.00	03/12/2002 04:39	
Toluene	ND	0.62	mg/Kg	1.00	03/12/2002 04:39	
Ethyl benzene	ND	0.62	mg/Kg	1.00	03/12/2002 04:39	
Xylene(s)	ND	0.62	mg/Kg	1.00	03/12/2002 04:39	
MTBE	ND	0.62	mg/Kg	1.00	03/12/2002 04:39	
Surrogate(s)						
Trifluorotoluene	111.0	53-125	%	1.00	03/12/2002 04:39	
4-Bromofluorobenzene-FID	139.0	58-124	%	1.00	03/12/2002 04:39	sh

Submission #: 2002-03-0103

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

Sample ID:	**EB-9 14-14.5**	Lab Sample ID:	2002-03-0103-014
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 05:10
Sampled:	03/05/2002	QC-Batch:	2002/03/08-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	100	10	mg/Kg	1.00	03/12/2002 05:10	g
Benzene	ND	0.62	mg/Kg	1.00	03/12/2002 05:10	
Toluene	ND	0.62	mg/Kg	1.00	03/12/2002 05:10	
Ethyl benzene	ND	0.62	mg/Kg	1.00	03/12/2002 05:10	
Xylene(s)	ND	0.62	mg/Kg	1.00	03/12/2002 05:10	
MTBE	ND	0.62	mg/Kg	1.00	03/12/2002 05:10	
Surrogate(s)						
Trifluorotoluene	80.1	53-125	%	1.00	03/12/2002 05:10	
4-Bromofluorobenzene-FID	141.0	58-124	%	1.00	03/12/2002 05:10	sh

Submission #: 2002-03-0103

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Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**EB-10 6-6.5**	Lab Sample ID:	2002-03-0103-016
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 05:41
Sampled:	03/05/2002	QC-Batch:	2002/03/08-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	380	50	mg/Kg	5.00	03/12/2002 05:41	g
Benzene	ND	3.1	mg/Kg	5.00	03/12/2002 05:41	
Toluene	ND	3.1	mg/Kg	5.00	03/12/2002 05:41	
Ethyl benzene	ND	3.1	mg/Kg	5.00	03/12/2002 05:41	
Xylene(s)	ND	3.1	mg/Kg	5.00	03/12/2002 05:41	
MTBE	ND	3.1	mg/Kg	5.00	03/12/2002 05:41	
Surrogate(s)						
Trifluorotoluene	122.7	53-125	%	1.00	03/12/2002 05:41	
4-Bromofluorobenzene-FID	205.0	58-124	%	1.00	03/12/2002 05:41	sh

Submission #: 2002-03-0103

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Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

Sample ID:	**EB-10 9-9.5**	Lab Sample ID:	2002-03-0103-017
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 06:11
Sampled:	03/05/2002	QC-Batch:	2002/03/08-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	150	10	mg/Kg	1.00	03/12/2002 06:11	g
Benzene	ND	0.62	mg/Kg	1.00	03/12/2002 06:11	
Toluene	ND	0.62	mg/Kg	1.00	03/12/2002 06:11	
Ethyl benzene	ND	0.62	mg/Kg	1.00	03/12/2002 06:11	
Xylene(s)	ND	0.62	mg/Kg	1.00	03/12/2002 06:11	
MTBE	ND	0.62	mg/Kg	1.00	03/12/2002 06:11	
Surrogate(s)						
Trifluorotoluene	99.4	53-125	%	1.00	03/12/2002 06:11	
4-Bromofluorobenzene-FID	146.0	58-124	%	1.00	03/12/2002 06:11	sh

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**EB-11 6-6.5**	Lab Sample ID:	2002-03-0103-019
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002 06:42
Sampled:	03/05/2002	QC-Batch:	2002/03/08-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	160	10	mg/Kg	1.00	03/12/2002 06:42	g
Benzene	ND	0.62	mg/Kg	1.00	03/12/2002 06:42	
Toluene	ND	0.62	mg/Kg	1.00	03/12/2002 06:42	
Ethyl benzene	ND	0.62	mg/Kg	1.00	03/12/2002 06:42	
Xylene(s)	ND	0.62	mg/Kg	1.00	03/12/2002 06:42	
MTBE	ND	0.62	mg/Kg	1.00	03/12/2002 06:42	
Surrogate(s)						
Trifluorotoluene	81.0	53-125	%	1.00	03/12/2002 06:42	
4-Bromofluorobenzene-FID	152.4	58-124	%	1.00	03/12/2002 06:42	sh

Submission #: 2002-03-0103

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5030

Method Blank **Soil** **QC Batch # 2002/03/08-05.03**

MB: 2002/03/08-05.03-001 Date Extracted: 03/08/2002 10:41

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	10	mg/Kg	03/08/2002 10:41	
Benzene	ND	0.62	mg/Kg	03/08/2002 10:41	
Toluene	ND	0.62	mg/Kg	03/08/2002 10:41	
Ethyl benzene	ND	0.62	mg/Kg	03/08/2002 10:41	
Xylene(s)	ND	0.62	mg/Kg	03/08/2002 10:41	
MTBE	ND	0.62	mg/Kg	03/08/2002 10:41	
Surrogate(s)					
Trifluorotoluene	106.0	53-125	%	03/08/2002 10:41	
4-Bromofluorobenzene-FID	91.5	58-124	%	03/08/2002 10:41	

Submission #: 2002-03-0103

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/08-05.03**

LCS: 2002/03/08-05.03-002 Extracted: 03/08/2002 11:12 Analyzed: 03/08/2002 11:13

LCSD: 2002/03/08-05.03-003 Extracted: 03/08/2002 11:43 Analyzed: 03/08/2002 11:43

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.748	0.733	0.625	0.625	119.7	117.3	2.0	75-125	35		
Benzene	0.127	0.130	0.125	0.125	101.6	104.0	2.3	77-123	35		
Toluene	0.131	0.133	0.125	0.125	104.8	106.4	1.5	78-122	35		
Ethyl benzene	0.126	0.129	0.125	0.125	100.8	103.2	2.4	70-130	35		
Xylene(s)	0.388	0.397	0.375	0.375	103.5	105.9	2.3	75-125	35		
Surrogate(s)											
Trifluorotoluene	104	104	100	100	104.0	104.0		53-125	0		
4-Bromofluorobenzene	90.9	90.0	100	100	90.9	90.0		58-124	0		

Submission #: 2002-03-0103

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Legend & Notes

Test Method: 8021B
8015M

Prep Method: 5030

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

Analyte Flags

sh

Surrogate recovery was higher than QC limit due to matrix interference.

Submission #: 2002-03-0103

TEPH w/ Silica Gel Clean-up

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-1	Water	03/04/2002	1
EB-7	Water	03/05/2002	2
EB-8	Water	03/05/2002	3
EB-9	Water	03/05/2002	4
EB-10	Water	03/05/2002	5
EB-11	Water	03/05/2002	6
EB-12	Water	03/05/2002	7
EB-7 9-9.5	Soil	03/05/2002	8
EB-7 14-14.5	Soil	03/05/2002	10
EB-8 6-6.5	Soil	03/05/2002	11
EB-8 12-12.5	Soil	03/05/2002	12
EB-9 7.5-8	Soil	03/05/2002	13
EB-9 14-14.5	Soil	03/05/2002	14
EB-10 6-6.5	Soil	03/05/2002	16
EB-10 9-9.5	Soil	03/05/2002	17
EB-11 6-6.5	Soil	03/05/2002	19
EB-11 9-9.5	Soil	03/05/2002	20
EB-12 6-6.5	Soil	03/05/2002	22
EB-12 8-8.5	Soil	03/05/2002	23

Submission #: 2002-03-0103

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID: **EB-1**
Project: 1424-9B Powell St.
Sampled: 03/04/2002
Matrix: Water
Sample/Analysis Flag: rl (See Legend & Note section)

Lab Sample ID: 2002-03-0103-001
Received: 03/06/2002 16:10
Extracted: 03/11/2002 09:33
QC-Batch: 2002/03/11-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	92	61	ug/L	1.22	03/12/2002 23:28	ndp
Motor Oil	ND	610	ug/L	1.22	03/12/2002 23:28	
Surrogate(s)						
o-Terphenyl	83.8	60-130	%	1.22	03/12/2002 23:28	

Submission #: 2002-03-0103

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TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-7**	Lab Sample ID:	2002-03-0103-002
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 09:33
Sampled:	03/05/2002	QC-Batch:	2002/03/11-01.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	7300	50	ug/L	1.00	03/12/2002 01:18	ndp
Motor Oil	ND	500	ug/L	1.00	03/12/2002 01:18	
Surrogate(s)						
o-Terphenyl	107.3	60-130	%	1.00	03/12/2002 01:18	

Submission #: 2002-03-0103

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-8**	Lab Sample ID:	2002-03-0103-003
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 09:33
Sampled:	03/05/2002	QC-Batch:	2002/03/11-01.10
Matrix:	Water		

Sample/Analysis Flag: rl (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	100	58	ug/L	1.16	03/12/2002 22:52	ndp
Motor Oil	ND	580	ug/L	1.16	03/12/2002 22:52	
Surrogate(s)						
o-Terphenyl	84.2	60-130	%	1.16	03/12/2002 22:52	

Submission #: 2002-03-0103

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Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-9**	Lab Sample ID:	2002-03-0103-004
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/11/2002 09:33
Sampled:	03/05/2002	QC-Batch:	2002/03/11-01.10
Matrix:	Water		

Sample/Analysis Flag: rl (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	24000000	200000	ug/L	4,032.26	03/13/2002 06:08	ndp
Motor Oil	ND	2000000	ug/L	4,032.26	03/13/2002 06:08	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	4,032.26	03/13/2002 06:08	sd

Submission #: 2002-03-0103

TEPH w/ Silica Gel Clean-up

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CA DHS ELAP#1094

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

Sample ID: **EB-10**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Water
Sample/Analysis Flag: rl (See Legend & Note section)

Lab Sample ID: 2002-03-0103-005
Received: 03/06/2002 16:10
Extracted: 03/11/2002 09:33
QC-Batch: 2002/03/11-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	4400000	40000	ug/L	806.45	03/13/2002 06:45	ndp
Motor Oil	ND	400000	ug/L	806.45	03/13/2002 06:45	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	806.45	03/13/2002 06:45	sd

Submission #: 2002-03-0103

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Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID: **EB-11**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Water
Sample/Analysis Flag: rl (See Legend & Note section)

Lab Sample ID: 2002-03-0103-006
Received: 03/06/2002 16:10
Extracted: 03/11/2002 09:33
QC-Batch: 2002/03/11-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	2100	58	ug/L	1.16	03/13/2002 00:42	ndp
Motor Oil	ND	580	ug/L	1.16	03/13/2002 00:42	
Surrogate(s)						
o-Terphenyl	93.1	60-130	%	1.16	03/13/2002 00:42	

Submission #: 2002-03-0103

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID: **EB-12**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Water
Lab Sample ID: 2002-03-0103-007
Received: 03/06/2002 16:10
Extracted: 03/11/2002 09:33
QC-Batch: 2002/03/11-01.10
Sample/Analysis Flag: rl (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	20000000	150000	ug/L	2,976.19	03/13/2002 07:22	ndp
Motor Oil	ND	1500000	ug/L	2,976.19	03/13/2002 07:22	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	2,976.19	03/13/2002 07:22	sd

Submission #: 2002-03-0103

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Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-7 9-9.5**	Lab Sample ID:	2002-03-0103-008
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 06:25
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	190	2.0	mg/Kg	2.00	03/11/2002 06:59	ndp
Motor Oil	ND	100	mg/Kg	2.00	03/11/2002 06:59	
Surrogate(s)						
o-Terphenyl	104.7	60-130	%	2.00	03/11/2002 06:59	

Submission #: 2002-03-0103

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Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-7 14-14.5**	Lab Sample ID:	2002-03-0103-010
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 06:25
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	78	1.0	mg/Kg	1.00	03/08/2002 05:06	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/08/2002 05:06	
Surrogate(s)						
o-Terphenyl	100.1	60-130	%	1.00	03/08/2002 05:06	

Submission #: 2002-03-0103

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TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-8 6-6.5**	Lab Sample ID:	2002-03-0103-011
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 06:25
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	190	1.0	mg/Kg	1.00	03/08/2002 14:21	ndp
Motor Oil	52	50	mg/Kg	1.00	03/08/2002 14:21	
Surrogate(s)						
o-Terphenyl	101.9	60-130	%	1.00	03/08/2002 14:21	

Submission #: 2002-03-0103

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-8 12-12.5**	Lab Sample ID:	2002-03-0103-012
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 06:25
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	12	1.0	mg/Kg	1.00	03/11/2002 08:56	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/11/2002 08:56	
Surrogate(s)						
o-Terphenyl	78.0	60-130	%	1.00	03/11/2002 08:56	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-9 7.5-8**	Lab Sample ID:	2002-03-0103-013
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 06:25
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	560	5.0	mg/Kg	5.00	03/09/2002 02:07	ndp
Motor Oil	ND	250	mg/Kg	5.00	03/09/2002 02:07	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	5.00	03/09/2002 02:07	sd

Submission #: 2002-03-0103

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-9 14-14.5**	Lab Sample ID:	2002-03-0103-014
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 06:25
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	140	2.0	mg/Kg	2.00	03/11/2002 06:22	ndp
Motor Oil	ND	100	mg/Kg	2.00	03/11/2002 06:22	
Surrogate(s)						
o-Terphenyl	99.4	60-130	%	2.00	03/11/2002 06:22	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-10 6-6.5**	Lab Sample ID:	2002-03-0103-016
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 06:25
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1100	10	mg/Kg	10.00	03/08/2002 20:00	ndp
Motor Oil	ND	500	mg/Kg	10.00	03/08/2002 20:00	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	10.00	03/08/2002 20:00	sd

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-10 9-9.5**	Lab Sample ID:	2002-03-0103-017
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 06:25
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	350	10	mg/Kg	10.00	03/08/2002 19:23	ndp
Motor Oil	ND	500	mg/Kg	10.00	03/08/2002 19:23	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	10.00	03/08/2002 19:23	sd

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-11 6-6.5**	Lab Sample ID:	2002-03-0103-019
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 06:25
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	820	10	mg/Kg	10.00	03/08/2002 18:46	ndp
Motor Oil	ND	500	mg/Kg	10.00	03/08/2002 18:46	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	10.00	03/08/2002 18:46	sd

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-11 9-9.5**	Lab Sample ID:	2002-03-0103-020
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 06:25
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	330	5.0	mg/Kg	5.00	03/11/2002 08:13	ndp
Motor Oil	ND	250	mg/Kg	5.00	03/11/2002 08:13	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	5.00	03/11/2002 08:13	sd

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
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Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-12 6-6.5**	Lab Sample ID:	2002-03-0103-022
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 06:25
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	110	10	mg/Kg	10.00	03/08/2002 18:08	ndp
Motor Oil	ND	500	mg/Kg	10.00	03/08/2002 18:08	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	10.00	03/08/2002 18:08	sd

Submission #: 2002-03-0103

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**EB-12 8-8.5**	Lab Sample ID:	2002-03-0103-023
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/07/2002 06:25
Sampled:	03/05/2002	QC-Batch:	2002/03/07-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	890	10	mg/Kg	10.00	03/08/2002 20:00	ndp
Motor Oil	ND	500	mg/Kg	10.00	03/08/2002 20:00	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	10.00	03/08/2002 20:00	sd

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015 M

Method Blank **Soil** **QC Batch # 2002/03/07-01.10**

MB: 2002/03/07-01.10-001 Date Extracted: 03/07/2002 06:25

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	03/07/2002 19:37	
Motor Oil	ND	50	mg/Kg	03/07/2002 19:37	
Surrogate(s)					
o-Terphenyl	98.8	60-130	%	03/07/2002 19:37	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

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www.chromalab.com

CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015 M

Method Blank	**Water**	**QC Batch # 2002/03/11-01.10**
MB: 2002/03/11-01.10-001		Date Extracted: 03/11/2002 09:33

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	03/11/2002 13:08	
Motor Oil	ND	500	ug/L	03/11/2002 13:08	
Surrogate(s)					
o-Terphenyl	104.6	60-130	%	03/11/2002 13:08	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

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1220 Quarry Lane
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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M Prep Method: 3550/8015M

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/07-01.10**

LCS: 2002/03/07-01.10-002 Extracted: 03/07/2002 06:25 Analyzed: 03/07/2002 18:23

LCSD: 2002/03/07-01.10-003 Extracted: 03/07/2002 06:25 Analyzed: 03/07/2002 19:00

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	37.3	37.3	41.7	41.7	89.4	89.4	0.0	60-130	25		
Surrogate(s)											
o-Terphenyl	20.8	21.0	20.0	20.0	103.8	105.0		60-130	0		

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M Prep Method: 3510/8015M

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/03/11-01.10**

LCS: 2002/03/11-01.10-002 Extracted: 03/11/2002 09:33 Analyzed: 03/11/2002 13:53

LCSD: 2002/03/11-01.10-003 Extracted: 03/11/2002 09:33 Analyzed: 03/11/2002 14:32

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	972	896	1250	1250	77.8	71.7	8.2	60-130	25		
Surrogate(s)											
o-Terphenyl	20.1	18.6	20.0	20.0	100.3	92.9		60-130	0		

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Legend & Notes

Test Method: 8015M

Prep Method: 3510/8015M
3550/8015M

Analysis Flags

rl

Reporting limits raised due to reduced sample size.

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Analyte Flags

sd

Surrogate recovery not reportable due to required dilution.

Submission #: 2002-03-0103

Gas/BTEX Compounds (High Level)

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
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www.chromalab.com

CA DHS ELAP#1094

Lowney & Associates Oakland	☒ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-11 9-9.5	Soil	03/05/2002	20
EB-12 6-6.5	Soil	03/05/2002	22
EB-12 8-8.5	Soil	03/05/2002	23

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

STL San Francisco
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Pleasanton, CA 94566

Tel 925 484 1919
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CA DHS ELAP#1094

Sample ID: **EB-11 9-9.5**
Project: 1424-9B Powell St.
Sampled: 03/05/2002
Matrix: Soil

Lab Sample ID: 2002-03-0103-020
Received: 03/06/2002 16:10
Extracted: 03/08/2002
QC-Batch: 2002/03/08-05.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	130	10	mg/Kg	1.00	03/15/2002 13:45	
Benzene	ND	0.62	mg/Kg	1.00	03/15/2002 13:45	
Toluene	ND	0.62	mg/Kg	1.00	03/15/2002 13:45	
Ethyl benzene	ND	0.62	mg/Kg	1.00	03/15/2002 13:45	
Xylene(s)	0.92	0.62	mg/Kg	1.00	03/15/2002 13:45	
MTBE	ND	0.62	mg/Kg	1.00	03/15/2002 13:45	
Surrogate(s)						
Trifluorotoluene	123.0	53-125	%	1.00	03/15/2002 13:45	
Trifluorotoluene-FID	133.7	53-125	%	1.00	03/15/2002 13:45	sh

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

Sample ID:	**EB-12 6-6.5**	Lab Sample ID:	2002-03-0103-022
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002
Sampled:	03/05/2002	QC-Batch:	2002/03/08-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	980	50	mg/Kg	5.00	03/15/2002 11:16	
Benzene	13	3.1	mg/Kg	5.00	03/15/2002 11:16	
Toluene	41	3.1	mg/Kg	5.00	03/15/2002 11:16	
Ethyl benzene	19	3.1	mg/Kg	5.00	03/15/2002 11:16	
Xylene(s)	81	3.1	mg/Kg	5.00	03/15/2002 11:16	
MTBE	ND	3.1	mg/Kg	5.00	03/15/2002 11:16	
Surrogate(s)						
Trifluorotoluene	75.3	53-125	%	1.00	03/15/2002 11:16	
4-Bromofluorobenzene-FID	68.8	58-124	%	1.00	03/15/2002 11:16	

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8021B
8015M

Prep Method: 5030

STL San Francisco
1220 Quarry Lane
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www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**EB-12 8-8.5**	Lab Sample ID:	2002-03-0103-023
Project:	1424-9B Powell St.	Received:	03/06/2002 16:10
		Extracted:	03/08/2002
Sampled:	03/05/2002	QC-Batch:	2002/03/08-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	760	50	mg/Kg	5.00	03/15/2002 11:45	
Benzene	12	3.1	mg/Kg	5.00	03/15/2002 11:45	
Toluene	5.4	3.1	mg/Kg	5.00	03/15/2002 11:45	
Ethyl benzene	7.1	3.1	mg/Kg	5.00	03/15/2002 11:45	
Xylene(s)	5.7	3.1	mg/Kg	5.00	03/15/2002 11:45	
MTBE	ND	3.1	mg/Kg	5.00	03/15/2002 11:45	
Surrogate(s)						
Trifluorotoluene	83.5	53-125	%	1.00	03/15/2002 11:45	
Trifluorotoluene-FID	104.4	53-125	%	1.00	03/15/2002 11:45	

Submission #: 2002-03-0103

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5030

Method Blank **Soil** **QC Batch # 2002/03/08-05.03**

MB: 2002/03/08-05.03-001 Date Extracted: 03/08/2002 10:41

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	10	mg/Kg	03/08/2002 10:41	
Benzene	ND	0.62	mg/Kg	03/08/2002 10:41	
Toluene	ND	0.62	mg/Kg	03/08/2002 10:41	
Ethyl benzene	ND	0.62	mg/Kg	03/08/2002 10:41	
Xylene(s)	ND	0.62	mg/Kg	03/08/2002 10:41	
MTBE	ND	0.62	mg/Kg	03/08/2002 10:41	
Surrogate(s)					
Trifluorotoluene	106.0	53-125	%	03/08/2002 10:41	
4-Bromofluorobenzene-FID	91.5	58-124	%	03/08/2002 10:41	

Submission #: 2002-03-0103

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/08-05.03**

LCS: 2002/03/08-05.03-002 Extracted: 03/08/2002 11:12 Analyzed: 03/08/2002 11:13

LCSD: 2002/03/08-05.03-003 Extracted: 03/08/2002 11:43 Analyzed: 03/08/2002 11:43

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.748	0.733	0.625	0.625	119.7	117.3	2.0	75-125	35		
Benzene	0.127	0.130	0.125	0.125	101.6	104.0	2.3	77-123	35		
Toluene	0.131	0.133	0.125	0.125	104.8	106.4	1.5	78-122	35		
Ethyl benzene	0.126	0.129	0.125	0.125	100.8	103.2	2.4	70-130	35		
Xylene(s)	0.388	0.397	0.375	0.375	103.5	105.9	2.3	75-125	35		
Surrogate(s)											
Trifluorotoluene	104	104	100	100	104.0	104.0		53-125	0		
4-Bromofluorobenzene	90.9	90.0	100	100	90.9	90.0		58-124	0		

Submission #: 2002-03-0103

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Legend & Notes

Test Method: 8021B
8015M

Prep Method: 5030

Analyte Flags

sh

Surrogate recovery was higher than QC limit due to matrix interference.

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

☐ **Mountain View Office**
405 Clyde Ave.
Mountain View 94043
Tel: 650.967.2365
Fax: 650.967.2785

☒ **Oakland Office**
129 Filbert St.
Oakland 94607
Tel: 510.267.1970
Fax: 510.267.1972

☐ **Fullerton Office**
251 E. Imperial Hwy. #470
Fullerton 92835
Tel: 714.441.3090
Fax: 714.441.3091

☐ **San Ramon Office**
2258 Camino Ramon
San Ramon 94583
Tel: 925.275.2555
Fax: 925.275.2555

CHAIN OF CUSTODY RECORD

2002-03-0103

650064

Project Name: Powell St.
Job No.: 1424-9B
Report To: Mark Arniola
Sampler (print): Charles Mettler
Sampler (signature): Chl Mett

Electronic Deliverable Format Required: ☐ YES ☐ NO
EDF LOGCODE: ☐ LAMV ☐ LAO ☐ LAF
Global ID # : _____

Turnaround Requirements
☒ 5 Working Days
☐ 48 Hours
☐ 24 Hours
☐ 2-3 Hours RUSH
☐ _____

QC Requirement:
☒ Level A (standard)

ANALYSES REQUESTED

Sample I.D. (Field Point Name)	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M) + TPH mo silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 or 8260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M) (Purgeable and Extractable)			
EB-1	3-4-02			water	8	✓	✓		✓									
EB-7	3-5-02					✓	✓		✓									
EB-8						✓	✓		✓									
EB-9						✓	✓		✓									
EB-10						✓	✓		✓									
EB-11						✓	✓		✓									
EB-12						✓	✓		✓									
EB-7 9-9½				SOIL	1	✓	✓		✓									hold
EB-7 7-7½						✓												
EB-7 14-14½						✓	✓											
EB-8 6-6½						✓	✓											
EB-8 12-12½						✓	✓											

Relinquished By: [signature] Date: 3/6/02 Time: 15:00
Relinquished By: [signature] Date: 3-6 Time: 16 10
Relinquished By: Date: Time:

Received By: [signature] Date: 3-6 Time: 15 00
Received By: Date: Time:
Lab of Record: STL-SF
Received by Lab: Denise Harrington Date: 3/6/02 Time: 1010

PM Initial:
Temp: 4.6°C

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

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Mountain View 94043
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☒ Oakland Office
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Oakland 94607
Tel: 510.267.1970
Fax: 510.267.1972

☐ Fullerton Office
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Fullerton 92835
Tel: 714.441.3090
Fax: 714.441.3091

☐ San Ramon Office
2258 Camino Ramon
San Ramon 94583
Tel: 925.275.2555
Fax: 925.275.2555

CHAIN OF CUSTODY RECORD

2002-03-0103

65064

Project Name: Powell Str.
Job No.: 1424 - 9B
Report To: Mark Arnold
Sampler (print): Charles Methe
Sampler (signature): Chl Meth

Electronic Deliverable Format Required: ☐ YES ☐ NO
EDF LOGCODE: ☐ LAMV ☐ LAO ☐ LAF
Global ID # : _____

Turnaround Requirements
☒ 5 Working Days
☐ 48 Hours
☐ 24 Hours
☐ 2-3 Hours RUSH
☐ _____

QC Requirement:
☒ Level A (standard)

ANALYSES REQUESTED

Sample I.D. (Field Point Name)	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M) + TPHmo silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 or 8260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M) (Purgeable and Extractable)			
EB-9 7½-8	3-5-02			Soil	1	✓	✓		✓									
EB-9 14-14½						✓	✓											Hold
EB-9 17½-18																		
EB-10 6-6½						✓	✓											
EB-10 9-9½						✓	✓		✓									Hold
EB-10 11½-12																		
EB-11 6-6½						✓	✓											
EB-11 9-9½						✓	✓											Hold
EB-11 12-12½																		
EB-12 6-6½						✓	✓		✓									
EB-12 8-9½						✓	✓											Hold
EB-12 11½-12																		

Relinquished By:	Date: 3/6/02	Time: 15:00	Received By: SOLC Date: 3-6 Time: 1500
Relinquished By: SOLC	Date: 3-6	Time: 1610	Received By: Date: Time:
Relinquished By:	Date:	Time:	Lab of Record: STL-SF
			Received by Lab: Denise Harrington Date: 3/6/02 Time: 1610

PM Initial:
Temp:

Submission #: 2002-03-0056

Date: March 11, 2002

SEVERN TRENT SERVICES

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com
CA DHS ELAP#1094

Lowney & Associates Oakland
167 Filbert Street
Oakland, Ca 94607

Attn: Mr. Mark Arniola

Project: 1424-9B
Powell SF.

Dear Mr. Arniola,

Attached is our report for your samples received on Monday March 4, 2002
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after April 18, 2002 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@chromalab.com

Sincerely,

Vincent Vancil
Project Manager

RECEIVED
MAR 14 2002
LOWNEY, CK

Submission #: 2002-03-0056

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
✉ 167 Filbert Street
Oakland, Ca 94607

Attn: Mark Arniola
Phone: (510) 267-1970 Fax: (510) 267-1972

1424-9B
Project: Powell SF.

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-2	Water	03/04/2002	1
EB-3	Water	03/04/2002	2
EB-4	Water	03/04/2002	3
EB-5	Water	03/04/2002	4
EB-6	Water	03/04/2002	5

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5030B

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
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www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID: **EB-2**
Project: 1424-9B
Powell SF.

Sampled: 03/04/2002
Matrix: Water

Lab Sample ID: 2002-03-0056-001
Received: 03/04/2002 18:10

Extracted: 03/06/2002 18:41
QC-Batch: 2002/03/06-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	11	5.0	ug/L	1.00	03/06/2002 18:41	
Acetone	ND	50	ug/L	1.00	03/06/2002 18:41	
Benzene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Bromobenzene	ND	1.0	ug/L	1.00	03/06/2002 18:41	
Bromochloromethane	ND	1.0	ug/L	1.00	03/06/2002 18:41	
Bromoform	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Bromomethane	ND	1.0	ug/L	1.00	03/06/2002 18:41	
2-Butanone(MEK)	ND	50	ug/L	1.00	03/06/2002 18:41	
n-Butylbenzene	ND	1.0	ug/L	1.00	03/06/2002 18:41	
sec-Butylbenzene	ND	1.0	ug/L	1.00	03/06/2002 18:41	
tert-Butylbenzene	ND	1.0	ug/L	1.00	03/06/2002 18:41	
Carbon disulfide	ND	5.0	ug/L	1.00	03/06/2002 18:41	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Chlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Chloroethane	ND	1.0	ug/L	1.00	03/06/2002 18:41	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	03/06/2002 18:41	
Chloroform	ND	1.0	ug/L	1.00	03/06/2002 18:41	
Chloromethane	ND	1.0	ug/L	1.00	03/06/2002 18:41	
2-Chlorotoluene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
4-Chlorotoluene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	03/06/2002 18:41	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	03/06/2002 18:41	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Dibromomethane	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/06/2002 18:41	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: **EB-2**
Project: 1424-9B Powell SF.
Sampled: 03/04/2002
Matrix: Water

Lab Sample ID: 2002-03-0056-001
Received: 03/04/2002 18:10
Extracted: 03/06/2002 18:41
QC-Batch: 2002/03/06-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Ethylbenzene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	03/06/2002 18:41	
2-Hexanone	ND	50	ug/L	1.00	03/06/2002 18:41	
Isopropylbenzene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	03/06/2002 18:41	
Methylene chloride	ND	5.0	ug/L	1.00	03/06/2002 18:41	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	03/06/2002 18:41	
Naphthalene	ND	1.0	ug/L	1.00	03/06/2002 18:41	
n-Propylbenzene	ND	1.0	ug/L	1.00	03/06/2002 18:41	
Styrene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Toluene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	03/06/2002 18:41	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	03/06/2002 18:41	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Trichloroethene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	03/06/2002 18:41	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Vinyl acetate	ND	25	ug/L	1.00	03/06/2002 18:41	
Vinyl chloride	ND	0.50	ug/L	1.00	03/06/2002 18:41	
Total xylenes	ND	1.0	ug/L	1.00	03/06/2002 18:41	
Surrogate(s)						
4-Bromofluorobenzene	100.2	86-115	%	1.00	03/06/2002 18:41	
1,2-Dichloroethane-d4	77.9	76-114	%	1.00	03/06/2002 18:41	
Toluene-d8	93.9	88-110	%	1.00	03/06/2002 18:41	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

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Test Method: 8260B
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID:	**EB-3**	Lab Sample ID:	2002-03-0056-002
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/06/2002 21:30
Sampled:	03/04/2002	QC-Batch:	2002/03/06-01.60
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	7.3	5.0	ug/L	1.00	03/06/2002 21:30	
Acetone	ND	50	ug/L	1.00	03/06/2002 21:30	
Benzene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Bromobenzene	ND	1.0	ug/L	1.00	03/06/2002 21:30	
Bromochloromethane	ND	1.0	ug/L	1.00	03/06/2002 21:30	
Bromoform	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Bromomethane	ND	1.0	ug/L	1.00	03/06/2002 21:30	
2-Butanone(MEK)	ND	50	ug/L	1.00	03/06/2002 21:30	
n-Butylbenzene	ND	1.0	ug/L	1.00	03/06/2002 21:30	
sec-Butylbenzene	ND	1.0	ug/L	1.00	03/06/2002 21:30	
tert-Butylbenzene	ND	1.0	ug/L	1.00	03/06/2002 21:30	
Carbon disulfide	ND	5.0	ug/L	1.00	03/06/2002 21:30	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Chlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Chloroethane	ND	1.0	ug/L	1.00	03/06/2002 21:30	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	03/06/2002 21:30	
Chloroform	ND	1.0	ug/L	1.00	03/06/2002 21:30	
Chloromethane	ND	1.0	ug/L	1.00	03/06/2002 21:30	
2-Chlorotoluene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
4-Chlorotoluene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	03/06/2002 21:30	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	03/06/2002 21:30	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Dibromomethane	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/06/2002 21:30	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

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Test Method: 8260B
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: **EB-3**
Project: 1424-9B Powell SF.
Sampled: 03/04/2002
Matrix: Water

Lab Sample ID: 2002-03-0056-002
Received: 03/04/2002 18:10
Extracted: 03/06/2002 21:30
QC-Batch: 2002/03/06-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Ethylbenzene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	03/06/2002 21:30	
2-Hexanone	ND	50	ug/L	1.00	03/06/2002 21:30	
Isopropylbenzene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	03/06/2002 21:30	
Methylene chloride	ND	5.0	ug/L	1.00	03/06/2002 21:30	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	03/06/2002 21:30	
Naphthalene	ND	1.0	ug/L	1.00	03/06/2002 21:30	
n-Propylbenzene	ND	1.0	ug/L	1.00	03/06/2002 21:30	
Styrene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Toluene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	03/06/2002 21:30	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	03/06/2002 21:30	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Trichloroethene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	03/06/2002 21:30	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Vinyl acetate	ND	25	ug/L	1.00	03/06/2002 21:30	
Vinyl chloride	ND	0.50	ug/L	1.00	03/06/2002 21:30	
Total xylenes	ND	1.0	ug/L	1.00	03/06/2002 21:30	
Surrogate(s)						
4-Bromofluorobenzene	100.1	86-115	%	1.00	03/06/2002 21:30	
1,2-Dichloroethane-d4	92.6	76-114	%	1.00	03/06/2002 21:30	
Toluene-d8	95.5	88-110	%	1.00	03/06/2002 21:30	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

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Test Method: 8260B
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID:	**EB-4**	Lab Sample ID:	2002-03-0056-003
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/06/2002 19:48
Sampled:	03/04/2002	QC-Batch:	2002/03/06-01.60
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	03/06/2002 19:48	
Acetone	ND	50	ug/L	1.00	03/06/2002 19:48	
Benzene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Bromobenzene	ND	1.0	ug/L	1.00	03/06/2002 19:48	
Bromochloromethane	ND	1.0	ug/L	1.00	03/06/2002 19:48	
Bromoform	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Bromomethane	ND	1.0	ug/L	1.00	03/06/2002 19:48	
2-Butanone(MEK)	ND	50	ug/L	1.00	03/06/2002 19:48	
n-Butylbenzene	ND	1.0	ug/L	1.00	03/06/2002 19:48	
sec-Butylbenzene	ND	1.0	ug/L	1.00	03/06/2002 19:48	
tert-Butylbenzene	ND	1.0	ug/L	1.00	03/06/2002 19:48	
Carbon disulfide	ND	5.0	ug/L	1.00	03/06/2002 19:48	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Chlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Chloroethane	ND	1.0	ug/L	1.00	03/06/2002 19:48	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	03/06/2002 19:48	
Chloroform	ND	1.0	ug/L	1.00	03/06/2002 19:48	
Chloromethane	ND	1.0	ug/L	1.00	03/06/2002 19:48	
2-Chlorotoluene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
4-Chlorotoluene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	03/06/2002 19:48	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	03/06/2002 19:48	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Dibromomethane	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/06/2002 19:48	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
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Test Method: 8260B
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID:	**EB-4**	Lab Sample ID:	2002-03-0056-003
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/06/2002 19:48
Sampled:	03/04/2002	QC-Batch:	2002/03/06-01.60
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Ethylbenzene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	03/06/2002 19:48	
2-Hexanone	ND	50	ug/L	1.00	03/06/2002 19:48	
Isopropylbenzene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	03/06/2002 19:48	
Methylene chloride	ND	5.0	ug/L	1.00	03/06/2002 19:48	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	03/06/2002 19:48	
Naphthalene	ND	1.0	ug/L	1.00	03/06/2002 19:48	
n-Propylbenzene	ND	1.0	ug/L	1.00	03/06/2002 19:48	
Styrene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Toluene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	03/06/2002 19:48	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	03/06/2002 19:48	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Trichloroethene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	03/06/2002 19:48	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Vinyl acetate	ND	25	ug/L	1.00	03/06/2002 19:48	
Vinyl chloride	ND	0.50	ug/L	1.00	03/06/2002 19:48	
Total xylenes	ND	1.0	ug/L	1.00	03/06/2002 19:48	
Surrogate(s)						
4-Bromofluorobenzene	106.7	86-115	%	1.00	03/06/2002 19:48	
1,2-Dichloroethane-d4	88.2	76-114	%	1.00	03/06/2002 19:48	
Toluene-d8	96.3	88-110	%	1.00	03/06/2002 19:48	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

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Test Method: 8260B
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID: **EB-5**
Project: 1424-9B Powell SF.
Sampled: 03/04/2002
Matrix: Water
Sample/Analysis Flag: lm (See Legend & Note section)

Lab Sample ID: 2002-03-0056-004
Received: 03/04/2002 18:10
Extracted: 03/06/2002 20:22
QC-Batch: 2002/03/06-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	20	ug/L	4.00	03/06/2002 20:22	
Acetone	ND	200	ug/L	4.00	03/06/2002 20:22	
Benzene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Bromodichloromethane	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Bromobenzene	ND	4.0	ug/L	4.00	03/06/2002 20:22	
Bromochloromethane	ND	4.0	ug/L	4.00	03/06/2002 20:22	
Bromoform	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Bromomethane	ND	4.0	ug/L	4.00	03/06/2002 20:22	
2-Butanone(MEK)	ND	200	ug/L	4.00	03/06/2002 20:22	
n-Butylbenzene	5.9	4.0	ug/L	4.00	03/06/2002 20:22	
sec-Butylbenzene	18	4.0	ug/L	4.00	03/06/2002 20:22	
tert-Butylbenzene	ND	4.0	ug/L	4.00	03/06/2002 20:22	
Carbon disulfide	ND	20	ug/L	4.00	03/06/2002 20:22	
Carbon tetrachloride	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Chlorobenzene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Chloroethane	ND	4.0	ug/L	4.00	03/06/2002 20:22	
2-Chloroethylvinyl ether	ND	20	ug/L	4.00	03/06/2002 20:22	
Chloroform	ND	4.0	ug/L	4.00	03/06/2002 20:22	
Chloromethane	ND	4.0	ug/L	4.00	03/06/2002 20:22	
2-Chlorotoluene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
4-Chlorotoluene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Dibromochloromethane	ND	2.0	ug/L	4.00	03/06/2002 20:22	
1,2-Dichlorobenzene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
1,3-Dichlorobenzene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
1,4-Dichlorobenzene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
1,3-Dichloropropane	ND	4.0	ug/L	4.00	03/06/2002 20:22	
2,2-Dichloropropane	ND	2.0	ug/L	4.00	03/06/2002 20:22	
1,1-Dichloropropene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
1,2-Dibromo-3-chloropropane	ND	4.0	ug/L	4.00	03/06/2002 20:22	
1,2-Dibromoethane	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Dibromomethane	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Dichlorodifluoromethane	ND	2.0	ug/L	4.00	03/06/2002 20:22	
1,1-Dichloroethane	ND	2.0	ug/L	4.00	03/06/2002 20:22	
1,2-Dichloroethane	ND	2.0	ug/L	4.00	03/06/2002 20:22	
1,1-Dichloroethene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
cis-1,2-Dichloroethene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
trans-1,2-Dichloroethene	ND	2.0	ug/L	4.00	03/06/2002 20:22	

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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5030B

Sample ID: **EB-5**
Project: 1424-9B Powell SF.
Sampled: 03/04/2002
Matrix: Water
Sample/Analysis Flag: Irn (See Legend & Note section)

Lab Sample ID: 2002-03-0056-004
Received: 03/04/2002 18:10
Extracted: 03/06/2002 20:22
QC-Batch: 2002/03/06-01.60

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,2-Dichloropropane	ND	2.0	ug/L	4.00	03/06/2002 20:22	
cis-1,3-Dichloropropene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
trans-1,3-Dichloropropene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Ethylbenzene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Hexachlorobutadiene	ND	4.0	ug/L	4.00	03/06/2002 20:22	
2-Hexanone	ND	200	ug/L	4.00	03/06/2002 20:22	
Isopropylbenzene	6.0	2.0	ug/L	4.00	03/06/2002 20:22	
p-Isopropyltoluene	ND	4.0	ug/L	4.00	03/06/2002 20:22	
Methylene chloride	ND	20	ug/L	4.00	03/06/2002 20:22	
4-Methyl-2-pentanone (MIBK)	ND	200	ug/L	4.00	03/06/2002 20:22	
Naphthalene	6.5	4.0	ug/L	4.00	03/06/2002 20:22	
n-Propylbenzene	ND	4.0	ug/L	4.00	03/06/2002 20:22	
Styrene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
1,1,1,2-Tetrachloroethane	ND	2.0	ug/L	4.00	03/06/2002 20:22	
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Tetrachloroethene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Toluene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
1,2,3-Trichlorobenzene	ND	4.0	ug/L	4.00	03/06/2002 20:22	
1,2,4-Trichlorobenzene	ND	4.0	ug/L	4.00	03/06/2002 20:22	
1,1,1-Trichloroethane	ND	2.0	ug/L	4.00	03/06/2002 20:22	
1,1,2-Trichloroethane	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Trichloroethene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Trichlorofluoromethane	ND	4.0	ug/L	4.00	03/06/2002 20:22	
Trichlorotrifluoroethane	ND	2.0	ug/L	4.00	03/06/2002 20:22	
1,2,4-Trimethylbenzene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
1,3,5-Trimethylbenzene	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Vinyl acetate	ND	100	ug/L	4.00	03/06/2002 20:22	
Vinyl chloride	ND	2.0	ug/L	4.00	03/06/2002 20:22	
Total xylenes	ND	4.0	ug/L	4.00	03/06/2002 20:22	
Surrogate(s)						
4-Bromofluorobenzene	107.5	86-115	%	4.00	03/06/2002 20:22	
1,2-Dichloroethane-d4	94.5	76-114	%	4.00	03/06/2002 20:22	
Toluene-d8	93.6	88-110	%	4.00	03/06/2002 20:22	

Submission #: 2002-03-0056

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Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5030B

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CA DHS ELAP#1094

Sample ID:	**EB-6**	Lab Sample ID:	2002-03-0056-005
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/06/2002 20:56
Sampled:	03/04/2002	QC-Batch:	2002/03/06-01.60
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	03/06/2002 20:56	
Acetone	ND	50	ug/L	1.00	03/06/2002 20:56	
Benzene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Bromodichloromethane	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Bromobenzene	ND	1.0	ug/L	1.00	03/06/2002 20:56	
Bromochloromethane	ND	1.0	ug/L	1.00	03/06/2002 20:56	
Bromoform	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Bromomethane	ND	1.0	ug/L	1.00	03/06/2002 20:56	
2-Butanone(MEK)	ND	50	ug/L	1.00	03/06/2002 20:56	
n-Butylbenzene	ND	1.0	ug/L	1.00	03/06/2002 20:56	
sec-Butylbenzene	ND	1.0	ug/L	1.00	03/06/2002 20:56	
tert-Butylbenzene	ND	1.0	ug/L	1.00	03/06/2002 20:56	
Carbon disulfide	ND	5.0	ug/L	1.00	03/06/2002 20:56	
Carbon tetrachloride	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Chlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Chloroethane	ND	1.0	ug/L	1.00	03/06/2002 20:56	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	03/06/2002 20:56	
Chloroform	ND	1.0	ug/L	1.00	03/06/2002 20:56	
Chloromethane	ND	1.0	ug/L	1.00	03/06/2002 20:56	
2-Chlorotoluene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
4-Chlorotoluene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Dibromochloromethane	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	03/06/2002 20:56	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	03/06/2002 20:56	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Dibromomethane	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	03/06/2002 20:56	

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Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5030B

Sample ID:	**EB-6**	Lab Sample ID:	2002-03-0056-005
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/06/2002 20:56
Sampled:	03/04/2002	QC-Batch:	2002/03/06-01.60
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Ethylbenzene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	03/06/2002 20:56	
2-Hexanone	ND	50	ug/L	1.00	03/06/2002 20:56	
Isopropylbenzene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	03/06/2002 20:56	
Methylene chloride	ND	5.0	ug/L	1.00	03/06/2002 20:56	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	03/06/2002 20:56	
Naphthalene	ND	1.0	ug/L	1.00	03/06/2002 20:56	
n-Propylbenzene	ND	1.0	ug/L	1.00	03/06/2002 20:56	
Styrene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Tetrachloroethene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Toluene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	03/06/2002 20:56	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	03/06/2002 20:56	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Trichloroethene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	03/06/2002 20:56	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Vinyl acetate	ND	25	ug/L	1.00	03/06/2002 20:56	
Vinyl chloride	ND	0.50	ug/L	1.00	03/06/2002 20:56	
Total xylenes	ND	1.0	ug/L	1.00	03/06/2002 20:56	
Surrogate(s)						
4-Bromofluorobenzene	98.8	86-115	%	1.00	03/06/2002 20:56	
1,2-Dichloroethane-d4	103.1	76-114	%	1.00	03/06/2002 20:56	
Toluene-d8	96.8	88-110	%	1.00	03/06/2002 20:56	

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Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Method Blank **Water** **QC Batch # 2002/03/06-01.60**

MB: 2002/03/06-01.60-050 Date Extracted: 03/06/2002 12:50

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	03/06/2002 12:50	
Acetone	ND	50	ug/L	03/06/2002 12:50	
Benzene	ND	0.5	ug/L	03/06/2002 12:50	
Bromodichloromethane	ND	0.5	ug/L	03/06/2002 12:50	
Bromobenzene	ND	1.0	ug/L	03/06/2002 12:50	
Bromochloromethane	ND	1.0	ug/L	03/06/2002 12:50	
Bromoform	ND	0.5	ug/L	03/06/2002 12:50	
Bromomethane	ND	1.0	ug/L	03/06/2002 12:50	
2-Butanone(MEK)	ND	50	ug/L	03/06/2002 12:50	
n-Butylbenzene	ND	1.0	ug/L	03/06/2002 12:50	
sec-Butylbenzene	ND	1.0	ug/L	03/06/2002 12:50	
tert-Butylbenzene	ND	1.0	ug/L	03/06/2002 12:50	
Carbon disulfide	ND	5.0	ug/L	03/06/2002 12:50	
Carbon tetrachloride	ND	0.5	ug/L	03/06/2002 12:50	
Chlorobenzene	ND	0.5	ug/L	03/06/2002 12:50	
Chloroethane	ND	1.0	ug/L	03/06/2002 12:50	
2-Chloroethylvinyl ether	ND	5.0	ug/L	03/06/2002 12:50	
Chloroform	ND	1.0	ug/L	03/06/2002 12:50	
Chloromethane	ND	1.0	ug/L	03/06/2002 12:50	
2-Chlorotoluene	ND	0.5	ug/L	03/06/2002 12:50	
4-Chlorotoluene	ND	0.5	ug/L	03/06/2002 12:50	
Dibromochloromethane	ND	0.5	ug/L	03/06/2002 12:50	
1,2-Dichlorobenzene	ND	0.5	ug/L	03/06/2002 12:50	
1,3-Dichlorobenzene	ND	0.5	ug/L	03/06/2002 12:50	
1,4-Dichlorobenzene	ND	0.5	ug/L	03/06/2002 12:50	
1,3-Dichloropropane	ND	1.0	ug/L	03/06/2002 12:50	
2,2-Dichloropropane	ND	0.5	ug/L	03/06/2002 12:50	
1,1-Dichloropropene	ND	0.5	ug/L	03/06/2002 12:50	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	03/06/2002 12:50	
1,2-Dibromoethane	ND	0.5	ug/L	03/06/2002 12:50	
Dibromomethane	ND	0.5	ug/L	03/06/2002 12:50	
Dichlorodifluoromethane	ND	0.5	ug/L	03/06/2002 12:50	
1,1-Dichloroethane	ND	0.5	ug/L	03/06/2002 12:50	
1,2-Dichloroethane	ND	0.5	ug/L	03/06/2002 12:50	
1,1-Dichloroethene	ND	0.5	ug/L	03/06/2002 12:50	
cis-1,2-Dichloroethene	ND	0.5	ug/L	03/06/2002 12:50	
trans-1,2-Dichloroethene	ND	0.5	ug/L	03/06/2002 12:50	
1,2-Dichloropropane	ND	0.5	ug/L	03/06/2002 12:50	
cis-1,3-Dichloropropene	ND	0.5	ug/L	03/06/2002 12:50	
trans-1,3-Dichloropropene	ND	0.5	ug/L	03/06/2002 12:50	
Ethylbenzene	ND	0.5	ug/L	03/06/2002 12:50	

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Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Method Blank **Water** **QC Batch # 2002/03/06-01.60**

MB: 2002/03/06-01.60-050 Date Extracted: 03/06/2002 12:50

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	1.0	ug/L	03/06/2002 12:50	
2-Hexanone	ND	50	ug/L	03/06/2002 12:50	
Isopropylbenzene	ND	0.5	ug/L	03/06/2002 12:50	
p-Isopropyltoluene	ND	1.0	ug/L	03/06/2002 12:50	
Methylene chloride	ND	5.0	ug/L	03/06/2002 12:50	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	03/06/2002 12:50	
Naphthalene	ND	1.0	ug/L	03/06/2002 12:50	
n-Propylbenzene	ND	1.0	ug/L	03/06/2002 12:50	
Styrene	ND	0.5	ug/L	03/06/2002 12:50	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	03/06/2002 12:50	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	03/06/2002 12:50	
Tetrachloroethene	ND	0.5	ug/L	03/06/2002 12:50	
Toluene	ND	0.5	ug/L	03/06/2002 12:50	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	03/06/2002 12:50	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	03/06/2002 12:50	
1,1,1-Trichloroethane	ND	0.5	ug/L	03/06/2002 12:50	
1,1,2-Trichloroethane	ND	0.5	ug/L	03/06/2002 12:50	
Trichloroethene	ND	0.5	ug/L	03/06/2002 12:50	
Trichlorofluoromethane	ND	1.0	ug/L	03/06/2002 12:50	
Trichlorotrifluoroethane	ND	0.5	ug/L	03/06/2002 12:50	
1,2,4-Trimethylbenzene	ND	0.5	ug/L	03/06/2002 12:50	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	03/06/2002 12:50	
Vinyl acetate	ND	25	ug/L	03/06/2002 12:50	
Vinyl chloride	ND	0.5	ug/L	03/06/2002 12:50	
Total xylenes	ND	1.0	ug/L	03/06/2002 12:50	
Surrogate(s)					
4-Bromofluorobenzene	100.7	86-115	%	03/06/2002 12:50	
1,2-Dichloroethane-d4	103.3	76-114	%	03/06/2002 12:50	
Toluene-d8	97.0	88-110	%	03/06/2002 12:50	

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Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5030B

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/03/06-01.60**

LCS: 2002/03/06-01.60-043 Extracted: 03/06/2002 11:43 Analyzed: 03/06/2002 11:43

LCSD: 2002/03/06-01.60-017 Extracted: 03/06/2002 12:17 Analyzed: 03/06/2002 12:17

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	18.9	18.4	20.0	20.0	94.5	92.0	2.7	69-129	20		
Chlorobenzene	20.3	20.9	20.0	20.0	101.5	104.5	2.9	61-121	20		
1,1-Dichloroethene	16.6	16.8	20.0	20.0	83.0	84.0	1.2	65-125	20		
Toluene	17.8	18.3	20.0	20.0	89.0	91.5	2.8	70-130	20		
Trichloroethene	17.9	17.9	20.0	20.0	89.5	89.5	0.0	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	515	521	500	500	103.0	104.2		86-115			
1,2-Dichloroethane-d4	471	459	500	500	94.2	91.8		76-114			
Toluene-d8	482	485	500	500	96.4	97.0		88-110			

Submission #: 2002-03-0056

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Volatile Organic Compounds by 8260B (Low Level)

Legend & Notes

Test Method: 8260B Prep Method: 5030B

Analysis Flags

lrn

Reporting limits raised due to high level of non-target analyte materials.

Submission #: 2002-03-0056

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CA DHS ELAP#1094

Gasoline

Legend & Notes

Test Method: 8015M Prep Method: 5030

Analyte Flags

g Hydrocarbon reported in the gasoline range does not match our gasoline standard

Submission #: 2002-03-0056

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Gasoline

Batch QC report

Test Method: 8015M Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/03/06-01.01**

LCS: 2002/03/06-01.01-009 Extracted: 03/06/2002 15:28 Analyzed: 03/06/2002 15:28

LCSD: 2002/03/06-01.01-010 Extracted: 03/06/2002 14:16 Analyzed: 03/06/2002 14:16

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	473	471	500	500	94.6	94.2	0.4	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene	379	457	500	500	75.8	91.4		50-150			

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Gasoline

Batch QC report

Test Method: 8015M Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/03/05-01.05**

LCS: 2002/03/05-01.05-004 Extracted: 03/05/2002 08:58 Analyzed: 03/05/2002 08:58

LCSD: 2002/03/05-01.05-005 Extracted: 03/05/2002 09:30 Analyzed: 03/05/2002 09:30

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	473	466	500	500	94.6	93.2	1.5	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene	511	496	500	500	102.2	99.2		50-150			

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CA DHS ELAP#1094

Gasoline

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5030

Method Blank **Water** **QC Batch # 2002/03/06-01.01**

MB: 2002/03/06-01.01-011 Date Extracted: 03/06/2002 14:46

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/06/2002 14:46	
Surrogate(s)					
4-Bromofluorobenzene-FID	93.7	50-150	%	03/06/2002 14:46	

Submission #: 2002-03-0056

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Gasoline

Batch QC report

Test Method: 8015M Prep Method: 5030

Method Blank **Water** **QC Batch # 2002/03/05-01.05**

MB: 2002/03/05-01.05-003 Date Extracted: 03/05/2002 08:26

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	03/05/2002 08:26	
Surrogate(s)					
4-Bromofluorobenzene-FID	95.9	50-150	%	03/05/2002 08:26	

Submission #: 2002-03-0056

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Gasoline

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Test Method: 8015M
Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**EB-6**	Lab Sample ID:	2002-03-0056-005
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 20:57
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	03/05/2002 20:57	
Surrogate(s)						
4-Bromofluorobenzene-FID	83.3	50-150	%	1.00	03/05/2002 20:57	

Submission #: 2002-03-0056

Gasoline

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Test Method: 8015M
Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**EB-5**	Lab Sample ID:	2002-03-0056-004
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 20:25
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	4900	2500	ug/L	50.00	03/05/2002 20:25	g
Surrogate(s)						
4-Bromofluorobenzene-FID	84.3	50-150	%	1.00	03/05/2002 20:25	

Submission #: 2002-03-0056

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Test Method: 8015M
Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**EB-4**	Lab Sample ID:	2002-03-0056-003
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 19:53
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	03/05/2002 19:53	
Surrogate(s)						
4-Bromofluorobenzene-FID	84.6	50-150	%	1.00	03/05/2002 19:53	

Submission #: 2002-03-0056

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Gasoline

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Test Method: 8015M
Prep Method: 5030

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Sample ID:	**EB-3**	Lab Sample ID:	2002-03-0056-002
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/06/2002 22:23
Sampled:	03/04/2002	QC-Batch:	2002/03/06-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	590	50	ug/L	1.00	03/06/2002 22:23	g
Surrogate(s)						
4-Bromofluorobenzene-FID	91.6	50-150	%	1.00	03/06/2002 22:23	

Submission #: 2002-03-0056

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Gasoline

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Test Method: 8015M
Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**EB-2**	Lab Sample ID:	2002-03-0056-001
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 18:49
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	03/05/2002 18:49	
Surrogate(s)						
4-Bromofluorobenzene-FID	83.0	50-150	%	1.00	03/05/2002 18:49	

Submission #: 2002-03-0056

Gasoline

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Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell SF.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-2	Water	03/04/2002	1
EB-3	Water	03/04/2002	2
EB-4	Water	03/04/2002	3
EB-5	Water	03/04/2002	4
EB-6	Water	03/04/2002	5

Submission #: 2002-03-0056

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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC Report

Test Method: 8260B Prep Method: 5035

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2002/03/05-01.09**

Sample ID: **EB-5 7.5-8 >> MS** Lab ID: 2002-03-0056-015

MS: 2002/03/05-01.09-010 Extracted: 03/05/2002 13:51 Analyzed: 03/05/2002 13:51
Dilution: 1

MSD: 2002/03/05-01.09-011 Extracted: 03/05/2002 14:17 Analyzed: 03/05/2002 14:17
Dilution: 1

Compound	Conc. [ug/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Benzene	83.8	86.6	ND	98.6	96.7	85.0	89.6	5.3	69-129	20		
Chlorobenzene	86.3	85.9	ND	98.6	96.7	87.5	88.8	1.5	61-121	20		
1,1-Dichloroethen	77.0	71.0	ND	98.6	96.7	78.1	73.4	6.2	65-125	20		
Toluene	85.4	87.3	ND	98.6	96.7	86.6	90.3	4.2	70-130	20		
Trichloroethene	81.3	92.2	ND	98.6	96.7	82.5	95.3	14.4	74-134	20		
Surrogate(s)												
4-Bromofluoroben	560	554		500	500	112.	110.9		74-121			
1,2-Dichloroethan	573	584		500	500	114.	116.9		70-121			
Toluene-d8	559	576		500	500	111.	115.2		81-117			

Submission #: 2002-03-0056

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Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/06-01.09**

LCS: 2002/03/06-01.09-005 Extracted: 03/06/2002 11:29 Analyzed: 03/06/2002 11:29

LCSD: 2002/03/06-01.09-003 Extracted: 03/06/2002 10:37 Analyzed: 03/06/2002 10:37

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	86.5	88.8	100.0	100.0	86.5	88.8	2.6	69-129	20		
Chlorobenzene	90.5	89.7	100.0	100.0	90.5	89.7	0.9	61-121	20		
1,1-Dichloroethene	74.8	73.7	100.0	100.0	74.8	73.7	1.5	65-125	20		
Toluene	88.5	91.9	100.0	100.0	88.5	91.9	3.8	70-130	20		
Trichloroethene	92.7	92.6	100.0	100.0	92.7	92.6	0.1	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	543	552	500	500	108.6	110.4		74-121			
1,2-Dichloroethane-d4	561	532	500	500	112.2	106.4		70-121			
Toluene-d8	559	562	500	500	111.8	112.4		81-117			

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Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/05-01.09**

LCS: 2002/03/05-01.09-002 Extracted: 03/05/2002 10:08 Analyzed: 03/05/2002 10:08

LCSD: 2002/03/05-01.09-003 Extracted: 03/05/2002 10:38 Analyzed: 03/05/2002 10:38

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	93.8	90.9	100.0	100.0	93.8	90.9	3.1	69-129	20		
Chlorobenzene	92.9	97.4	100.0	100.0	92.9	97.4	4.7	61-121	20		
1,1-Dichloroethene	81.9	78.1	100.0	100.0	81.9	78.1	4.8	65-125	20		
Toluene	101	91.9	100.0	100.0	101.0	91.9	9.4	70-130	20		
Trichloroethene	99.8	96.4	100.0	100.0	99.8	96.4	3.5	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	555	546	500	500	111.0	109.2		74-121			
1,2-Dichloroethane-d4	533	535	500	500	106.6	107.0		70-121			
Toluene-d8	570	541	500	500	114.0	108.2		81-117			

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Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5035

Method Blank	**Soil**	**QC Batch # 2002/03/06-01.09**
MB: 2002/03/06-01.09-004		Date Extracted: 03/06/2002 11:03

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	5.0	ug/Kg	03/06/2002 11:03	
2-Hexanone	ND	50	ug/Kg	03/06/2002 11:03	
Isopropylbenzene	ND	5.0	ug/Kg	03/06/2002 11:03	
p-Isopropyltoluene	ND	5.0	ug/Kg	03/06/2002 11:03	
Methylene chloride	ND	5.0	ug/Kg	03/06/2002 11:03	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	03/06/2002 11:03	
Naphthalene	ND	10	ug/Kg	03/06/2002 11:03	
n-Propylbenzene	ND	5.0	ug/Kg	03/06/2002 11:03	
Styrene	ND	5.0	ug/Kg	03/06/2002 11:03	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	03/06/2002 11:03	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	03/06/2002 11:03	
Tetrachloroethene	ND	5.0	ug/Kg	03/06/2002 11:03	
Toluene	ND	5.0	ug/Kg	03/06/2002 11:03	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	03/06/2002 11:03	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	03/06/2002 11:03	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	03/06/2002 11:03	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	03/06/2002 11:03	
Trichloroethene	ND	5.0	ug/Kg	03/06/2002 11:03	
Trichlorofluoromethane	ND	5.0	ug/Kg	03/06/2002 11:03	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	03/06/2002 11:03	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	03/06/2002 11:03	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	03/06/2002 11:03	
Vinyl acetate	ND	50	ug/Kg	03/06/2002 11:03	
Vinyl chloride	ND	5.0	ug/Kg	03/06/2002 11:03	
Total xylenes	ND	5.0	ug/Kg	03/06/2002 11:03	
Surrogate(s)					
4-Bromofluorobenzene	103.2	74-121	%	03/06/2002 11:03	
1,2-Dichloroethane-d4	111.8	70-121	%	03/06/2002 11:03	
Toluene-d8	116.7	81-117	%	03/06/2002 11:03	

Submission #: 2002-03-0056

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Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5035

Method Blank **Soil** **QC Batch # 2002/03/06-01.09**

MB: 2002/03/06-01.09-004 Date Extracted: 03/06/2002 11:03

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	03/06/2002 11:03	
Acetone	ND	50	ug/Kg	03/06/2002 11:03	
Benzene	ND	5.0	ug/Kg	03/06/2002 11:03	
Bromodichloromethane	ND	5.0	ug/Kg	03/06/2002 11:03	
Bromobenzene	ND	5.0	ug/Kg	03/06/2002 11:03	
Bromochloromethane	ND	20	ug/Kg	03/06/2002 11:03	
Bromoform	ND	5.0	ug/Kg	03/06/2002 11:03	
Bromomethane	ND	10	ug/Kg	03/06/2002 11:03	
2-Butanone(MEK)	ND	50	ug/Kg	03/06/2002 11:03	
n-Butylbenzene	ND	5.0	ug/Kg	03/06/2002 11:03	
sec-Butylbenzene	ND	5.0	ug/Kg	03/06/2002 11:03	
tert-Butylbenzene	ND	5.0	ug/Kg	03/06/2002 11:03	
Carbon disulfide	ND	5.0	ug/Kg	03/06/2002 11:03	
Carbon tetrachloride	ND	5.0	ug/Kg	03/06/2002 11:03	
Chlorobenzene	ND	5.0	ug/Kg	03/06/2002 11:03	
Chloroethane	ND	10	ug/Kg	03/06/2002 11:03	
2-Chloroethylvinyl ether	ND	50	ug/Kg	03/06/2002 11:03	
Chloroform	ND	5.0	ug/Kg	03/06/2002 11:03	
Chloromethane	ND	10	ug/Kg	03/06/2002 11:03	
2-Chlorotoluene	ND	5.0	ug/Kg	03/06/2002 11:03	
4-Chlorotoluene	ND	5.0	ug/Kg	03/06/2002 11:03	
Dibromochloromethane	ND	5.0	ug/Kg	03/06/2002 11:03	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	03/06/2002 11:03	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	03/06/2002 11:03	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	03/06/2002 11:03	
1,3-Dichloropropane	ND	5.0	ug/Kg	03/06/2002 11:03	
2,2-Dichloropropane	ND	5.0	ug/Kg	03/06/2002 11:03	
1,1-Dichloropropene	ND	5.0	ug/Kg	03/06/2002 11:03	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	03/06/2002 11:03	
1,2-Dibromoethane	ND	10	ug/Kg	03/06/2002 11:03	
Dibromomethane	ND	10	ug/Kg	03/06/2002 11:03	
Dichlorodifluoromethane	ND	10	ug/Kg	03/06/2002 11:03	
1,1-Dichloroethane	ND	5.0	ug/Kg	03/06/2002 11:03	
1,2-Dichloroethane	ND	5.0	ug/Kg	03/06/2002 11:03	
1,1-Dichloroethene	ND	5.0	ug/Kg	03/06/2002 11:03	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	03/06/2002 11:03	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	03/06/2002 11:03	
1,2-Dichloropropane	ND	5.0	ug/Kg	03/06/2002 11:03	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	03/06/2002 11:03	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	03/06/2002 11:03	
Ethylbenzene	ND	5.0	ug/Kg	03/06/2002 11:03	

Submission #: 2002-03-0056

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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5035

Method Blank **Soil** **QC Batch # 2002/03/05-01.09**

MB: 2002/03/05-01.09-004 Date Extracted: 03/05/2002 11:04

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Hexachlorobutadiene	ND	5.0	ug/Kg	03/05/2002 11:04	
2-Hexanone	ND	50	ug/Kg	03/05/2002 11:04	
Isopropylbenzene	ND	5.0	ug/Kg	03/05/2002 11:04	
p-Isopropyltoluene	ND	5.0	ug/Kg	03/05/2002 11:04	
Methylene chloride	ND	5.0	ug/Kg	03/05/2002 11:04	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	03/05/2002 11:04	
Naphthalene	ND	10	ug/Kg	03/05/2002 11:04	
n-Propylbenzene	ND	5.0	ug/Kg	03/05/2002 11:04	
Styrene	ND	5.0	ug/Kg	03/05/2002 11:04	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	03/05/2002 11:04	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	03/05/2002 11:04	
Tetrachloroethene	ND	5.0	ug/Kg	03/05/2002 11:04	
Toluene	ND	5.0	ug/Kg	03/05/2002 11:04	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	03/05/2002 11:04	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	03/05/2002 11:04	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	03/05/2002 11:04	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	03/05/2002 11:04	
Trichloroethene	ND	5.0	ug/Kg	03/05/2002 11:04	
Trichlorofluoromethane	ND	5.0	ug/Kg	03/05/2002 11:04	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	03/05/2002 11:04	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	03/05/2002 11:04	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	03/05/2002 11:04	
Vinyl acetate	ND	50	ug/Kg	03/05/2002 11:04	
Vinyl chloride	ND	5.0	ug/Kg	03/05/2002 11:04	
Total xylenes	ND	5.0	ug/Kg	03/05/2002 11:04	
Surrogate(s)					
4-Bromofluorobenzene	106.8	74-121	%	03/05/2002 11:04	
1,2-Dichloroethane-d4	110.2	70-121	%	03/05/2002 11:04	
Toluene-d8	109.9	81-117	%	03/05/2002 11:04	

Submission #: 2002-03-0056

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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Batch QC report

Test Method: 8260B Prep Method: 5035

Method Blank **Soil** **QC Batch # 2002/03/05-01.09**

MB: 2002/03/05-01.09-004 Date Extracted: 03/05/2002 11:04

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	03/05/2002 11:04	
Acetone	ND	50	ug/Kg	03/05/2002 11:04	
Benzene	ND	5.0	ug/Kg	03/05/2002 11:04	
Bromodichloromethane	ND	5.0	ug/Kg	03/05/2002 11:04	
Bromobenzene	ND	5.0	ug/Kg	03/05/2002 11:04	
Bromochloromethane	ND	20	ug/Kg	03/05/2002 11:04	
Bromoform	ND	5.0	ug/Kg	03/05/2002 11:04	
Bromomethane	ND	10	ug/Kg	03/05/2002 11:04	
2-Butanone(MEK)	ND	50	ug/Kg	03/05/2002 11:04	
n-Butylbenzene	ND	5.0	ug/Kg	03/05/2002 11:04	
sec-Butylbenzene	ND	5.0	ug/Kg	03/05/2002 11:04	
tert-Butylbenzene	ND	5.0	ug/Kg	03/05/2002 11:04	
Carbon disulfide	ND	5.0	ug/Kg	03/05/2002 11:04	
Carbon tetrachloride	ND	5.0	ug/Kg	03/05/2002 11:04	
Chlorobenzene	ND	5.0	ug/Kg	03/05/2002 11:04	
Chloroethane	ND	10	ug/Kg	03/05/2002 11:04	
2-Chloroethylvinyl ether	ND	50	ug/Kg	03/05/2002 11:04	
Chloroform	ND	5.0	ug/Kg	03/05/2002 11:04	
Chloromethane	ND	10	ug/Kg	03/05/2002 11:04	
2-Chlorotoluene	ND	5.0	ug/Kg	03/05/2002 11:04	
4-Chlorotoluene	ND	5.0	ug/Kg	03/05/2002 11:04	
Dibromochloromethane	ND	5.0	ug/Kg	03/05/2002 11:04	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	03/05/2002 11:04	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	03/05/2002 11:04	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	03/05/2002 11:04	
1,3-Dichloropropane	ND	5.0	ug/Kg	03/05/2002 11:04	
2,2-Dichloropropane	ND	5.0	ug/Kg	03/05/2002 11:04	
1,1-Dichloropropene	ND	5.0	ug/Kg	03/05/2002 11:04	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	03/05/2002 11:04	
1,2-Dibromoethane	ND	10	ug/Kg	03/05/2002 11:04	
Dibromomethane	ND	10	ug/Kg	03/05/2002 11:04	
Dichlorodifluoromethane	ND	10	ug/Kg	03/05/2002 11:04	
1,1-Dichloroethane	ND	5.0	ug/Kg	03/05/2002 11:04	
1,2-Dichloroethane	ND	5.0	ug/Kg	03/05/2002 11:04	
1,1-Dichloroethene	ND	5.0	ug/Kg	03/05/2002 11:04	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	03/05/2002 11:04	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	03/05/2002 11:04	
1,2-Dichloropropane	ND	5.0	ug/Kg	03/05/2002 11:04	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	03/05/2002 11:04	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	03/05/2002 11:04	
Ethylbenzene	ND	5.0	ug/Kg	03/05/2002 11:04	

Submission #: 2002-03-0056

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Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**EB-5 7.5-8**	Lab Sample ID:	2002-03-0056-015
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 13:25
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.09
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Ethylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
2-Hexanone	ND	50	ug/Kg	1.00	03/05/2002 13:25	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Methylene chloride	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	03/05/2002 13:25	
Naphthalene	ND	10	ug/Kg	1.00	03/05/2002 13:25	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Styrene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Toluene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Trichloroethene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Vinyl acetate	ND	50	ug/Kg	1.00	03/05/2002 13:25	
Vinyl chloride	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Total xylenes	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Surrogate(s)						
4-Bromofluorobenzene	114.0	74-121	%	1.00	03/05/2002 13:25	
1,2-Dichloroethane-d4	118.4	70-121	%	1.00	03/05/2002 13:25	
Toluene-d8	113.3	81-117	%	1.00	03/05/2002 13:25	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: **EB-5 7.5-8**
Project: 1424-9B
Powell SF.

Sampled: 03/04/2002
Matrix: Soil

Lab Sample ID: 2002-03-0056-015
Received: 03/04/2002 18:10

Extracted: 03/05/2002 13:25
QC-Batch: 2002/03/05-01.09

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Acetone	ND	50	ug/Kg	1.00	03/05/2002 13:25	
Benzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Bromobenzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Bromochloromethane	ND	20	ug/Kg	1.00	03/05/2002 13:25	
Bromoform	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Bromomethane	ND	10	ug/Kg	1.00	03/05/2002 13:25	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	03/05/2002 13:25	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Carbon disulfide	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Chlorobenzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Chloroethane	ND	10	ug/Kg	1.00	03/05/2002 13:25	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	03/05/2002 13:25	
Chloroform	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Chloromethane	ND	10	ug/Kg	1.00	03/05/2002 13:25	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	03/05/2002 13:25	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	03/05/2002 13:25	
Dibromomethane	ND	10	ug/Kg	1.00	03/05/2002 13:25	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	03/05/2002 13:25	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/05/2002 13:25	

Submission #: 2002-03-0056

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CA DHS ELAP#1094

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5035

Sample ID:	**EB-3 8-8.5**	Lab Sample ID:	2002-03-0056-010
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/06/2002 16:28
Sampled:	03/04/2002	QC-Batch:	2002/03/06-01.09
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Ethylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
2-Hexanone	ND	50	ug/Kg	1.00	03/06/2002 16:28	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Methylene chloride	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	03/06/2002 16:28	
Naphthalene	ND	10	ug/Kg	1.00	03/06/2002 16:28	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Styrene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Toluene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Trichloroethene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Vinyl acetate	ND	50	ug/Kg	1.00	03/06/2002 16:28	
Vinyl chloride	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Total xylenes	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Surrogate(s)						
4-Bromofluorobenzene	107.9	74-121	%	1.00	03/06/2002 16:28	
1,2-Dichloroethane-d4	120.8	70-121	%	1.00	03/06/2002 16:28	
Toluene-d8	113.1	81-117	%	1.00	03/06/2002 16:28	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: **EB-3 8-8.5**
Project: 1424-9B Powell SF.
Sampled: 03/04/2002
Matrix: Soil

Lab Sample ID: 2002-03-0056-010
Received: 03/04/2002 18:10
Extracted: 03/06/2002 16:28
QC-Batch: 2002/03/06-01.09

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Acetone	ND	50	ug/Kg	1.00	03/06/2002 16:28	
Benzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Bromobenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Bromochloromethane	ND	20	ug/Kg	1.00	03/06/2002 16:28	
Bromoform	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Bromomethane	ND	10	ug/Kg	1.00	03/06/2002 16:28	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	03/06/2002 16:28	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Carbon disulfide	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Chlorobenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Chloroethane	ND	10	ug/Kg	1.00	03/06/2002 16:28	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	03/06/2002 16:28	
Chloroform	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Chloromethane	ND	10	ug/Kg	1.00	03/06/2002 16:28	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	03/06/2002 16:28	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	03/06/2002 16:28	
Dibromomethane	ND	10	ug/Kg	1.00	03/06/2002 16:28	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	03/06/2002 16:28	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/06/2002 16:28	

Submission #: 2002-03-0056

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Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**EB-1 7-7.5**	Lab Sample ID:	2002-03-0056-008
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/06/2002 16:02
Sampled:	03/04/2002	QC-Batch:	2002/03/06-01.09
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Ethylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
2-Hexanone	ND	50	ug/Kg	1.00	03/06/2002 16:02	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Methylene chloride	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	03/06/2002 16:02	
Naphthalene	ND	10	ug/Kg	1.00	03/06/2002 16:02	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Styrene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Toluene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Trichloroethene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Vinyl acetate	ND	50	ug/Kg	1.00	03/06/2002 16:02	
Vinyl chloride	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Total xylenes	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Surrogate(s)						
4-Bromofluorobenzene	108.9	74-121	%	1.00	03/06/2002 16:02	
1,2-Dichloroethane-d4	118.2	70-121	%	1.00	03/06/2002 16:02	
Toluene-d8	114.8	81-117	%	1.00	03/06/2002 16:02	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5035

STL San Francisco
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CA DHS ELAP#1094

Sample ID: **EB-1 7-7.5**
Project: 1424-9B
Powell SF.

Sampled: 03/04/2002
Matrix: Soil

Lab Sample ID: 2002-03-0056-008
Received: 03/04/2002 18:10

Extracted: 03/06/2002 16:02
QC-Batch: 2002/03/06-01.09

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Acetone	ND	50	ug/Kg	1.00	03/06/2002 16:02	
Benzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Bromobenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Bromochloromethane	ND	20	ug/Kg	1.00	03/06/2002 16:02	
Bromoform	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Bromomethane	ND	10	ug/Kg	1.00	03/06/2002 16:02	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	03/06/2002 16:02	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Carbon disulfide	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Chlorobenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Chloroethane	ND	10	ug/Kg	1.00	03/06/2002 16:02	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	03/06/2002 16:02	
Chloroform	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Chloromethane	ND	10	ug/Kg	1.00	03/06/2002 16:02	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	03/06/2002 16:02	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	03/06/2002 16:02	
Dibromomethane	ND	10	ug/Kg	1.00	03/06/2002 16:02	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	03/06/2002 16:02	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/06/2002 16:02	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: **EB-2 11-11.5**
Project: 1424-9B
Powell SF.
Sampled: 03/04/2002
Matrix: Soil

Lab Sample ID: 2002-03-0056-007
Received: 03/04/2002 18:10
Extracted: 03/05/2002 12:07
QC-Batch: 2002/03/05-01.09

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Ethylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
2-Hexanone	ND	50	ug/Kg	1.00	03/05/2002 12:07	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Methylene chloride	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	03/05/2002 12:07	
Naphthalene	ND	10	ug/Kg	1.00	03/05/2002 12:07	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Styrene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Toluene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Trichloroethene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Vinyl acetate	ND	50	ug/Kg	1.00	03/05/2002 12:07	
Vinyl chloride	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Total xylenes	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Surrogate(s)						
4-Bromofluorobenzene	109.7	74-121	%	1.00	03/05/2002 12:07	
1,2-Dichloroethane-d4	113.5	70-121	%	1.00	03/05/2002 12:07	
Toluene-d8	112.5	81-117	%	1.00	03/05/2002 12:07	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8260B
Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: **EB-2 11-11.5**
Project: 1424-9B Powell SF.
Sampled: 03/04/2002
Matrix: Soil

Lab Sample ID: 2002-03-0056-007
Received: 03/04/2002 18:10
Extracted: 03/05/2002 12:07
QC-Batch: 2002/03/05-01.09

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Acetone	120	50	ug/Kg	1.00	03/05/2002 12:07	
Benzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Bromobenzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Bromochloromethane	ND	20	ug/Kg	1.00	03/05/2002 12:07	
Bromoform	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Bromomethane	ND	10	ug/Kg	1.00	03/05/2002 12:07	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	03/05/2002 12:07	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Carbon disulfide	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Chlorobenzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Chloroethane	ND	10	ug/Kg	1.00	03/05/2002 12:07	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	03/05/2002 12:07	
Chloroform	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Chloromethane	ND	10	ug/Kg	1.00	03/05/2002 12:07	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	03/05/2002 12:07	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	03/05/2002 12:07	
Dibromomethane	ND	10	ug/Kg	1.00	03/05/2002 12:07	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	03/05/2002 12:07	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	03/05/2002 12:07	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Volatile Organic Compounds by 8260B (Low Level)

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell SF.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-2 11-11.5	Soil	03/04/2002	7
EB-1 7-7.5	Soil	03/04/2002	8
EB-3 8-8.5	Soil	03/04/2002	10
EB-5 7.5-8	Soil	03/04/2002	15

Submission #: 2002-03-0056

Gas/BTEX Compounds by 8015M/8021

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell SF.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-2 9-9.5	Soil	03/04/2002	6
EB-2 11-11.5	Soil	03/04/2002	7
EB-1 7-7.5	Soil	03/04/2002	8
EB-1 17.5-18	Soil	03/04/2002	9
EB-3 8-8.5	Soil	03/04/2002	10
EB-3 15.5-16	Soil	03/04/2002	11
EB-4 6.5-7	Soil	03/04/2002	13
EB-4 11.5-12	Soil	03/04/2002	14
EB-5 7.5-8	Soil	03/04/2002	15
EB-6 9-9.5	Soil	03/04/2002	17
EB-6 11-11.5	Soil	03/04/2002	18

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M
8021B

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID: **EB-2 9-9.5**
Project: 1424-9B
Powell SF.

Sampled: 03/04/2002
Matrix: Soil

Lab Sample ID: 2002-03-0056-006
Received: 03/04/2002 18:10

Extracted: 03/05/2002 12:31
QC-Batch: 2002/03/05-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/05/2002 12:31	
Benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 12:31	
Toluene	ND	0.0050	mg/Kg	1.00	03/05/2002 12:31	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 12:31	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/05/2002 12:31	
MTBE	ND	0.0050	mg/Kg	1.00	03/05/2002 12:31	
Surrogate(s)						
Trifluorotoluene	93.3	53-125	%	1.00	03/05/2002 12:31	
4-Bromofluorobenzene-FID	79.0	58-124	%	1.00	03/05/2002 12:31	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M 8021B

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**EB-2 11-11.5**	Lab Sample ID:	2002-03-0056-007
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 13:01
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/05/2002 13:01	
Benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 13:01	
Toluene	ND	0.0050	mg/Kg	1.00	03/05/2002 13:01	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 13:01	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/05/2002 13:01	
MTBE	ND	0.0050	mg/Kg	1.00	03/05/2002 13:01	
Surrogate(s)						
Trifluorotoluene	96.1	53-125	%	1.00	03/05/2002 13:01	
4-Bromofluorobenzene-FID	95.1	58-124	%	1.00	03/05/2002 13:01	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M
8021B

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**EB-1 7-7.5**	Lab Sample ID:	2002-03-0056-008
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 14:49
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/05/2002 14:49	
Benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 14:49	
Toluene	ND	0.0050	mg/Kg	1.00	03/05/2002 14:49	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 14:49	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/05/2002 14:49	
MTBE	ND	0.0050	mg/Kg	1.00	03/05/2002 14:49	
Surrogate(s)						
Trifluorotoluene	93.1	53-125	%	1.00	03/05/2002 14:49	
4-Bromofluorobenzene-FID	97.1	58-124	%	1.00	03/05/2002 14:49	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M 8021B

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**EB-1 17.5-18**	Lab Sample ID:	2002-03-0056-009
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 15:19
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/05/2002 15:19	
Benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 15:19	
Toluene	ND	0.0050	mg/Kg	1.00	03/05/2002 15:19	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 15:19	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/05/2002 15:19	
MTBE	ND	0.0050	mg/Kg	1.00	03/05/2002 15:19	
Surrogate(s)						
Trifluorotoluene	98.4	53-125	%	1.00	03/05/2002 15:19	
4-Bromofluorobenzene-FID	97.7	58-124	%	1.00	03/05/2002 15:19	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Amiola

Test Method: 8015M
8021B

Prep Method: 5035

Sample ID: **EB-3 8-8.5**
Project: 1424-9B
Powell SF.

Sampled: 03/04/2002
Matrix: Soil

Lab Sample ID: 2002-03-0056-010
Received: 03/04/2002 18:10

Extracted: 03/05/2002 15:50
QC-Batch: 2002/03/05-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	11	1.0	mg/Kg	1.00	03/05/2002 15:50	g
Benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 15:50	
Toluene	ND	0.0050	mg/Kg	1.00	03/05/2002 15:50	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 15:50	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/05/2002 15:50	
MTBE	ND	0.0050	mg/Kg	1.00	03/05/2002 15:50	
Surrogate(s)						
Trifluorotoluene	97.2	53-125	%	1.00	03/05/2002 15:50	
Trifluorotoluene-FID	88.5	53-125	%	1.00	03/05/2002 15:50	

Submission #: 2002-03-0056

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M
8021B

Prep Method: 5035

Sample ID: **EB-3 15.5-16**
Project: 1424-9B
Powell SF.
Sampled: 03/04/2002
Matrix: Soil

Lab Sample ID: 2002-03-0056-011
Received: 03/04/2002 18:10
Extracted: 03/05/2002 16:21
QC-Batch: 2002/03/05-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/05/2002 16:21	
Benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 16:21	
Toluene	ND	0.0050	mg/Kg	1.00	03/05/2002 16:21	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 16:21	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/05/2002 16:21	
MTBE	ND	0.0050	mg/Kg	1.00	03/05/2002 16:21	
Surrogate(s)						
Trifluorotoluene	73.6	53-125	%	1.00	03/05/2002 16:21	
Trifluorotoluene-FID	116.1	53-125	%	1.00	03/05/2002 16:21	

Submission #: 2002-03-0056

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Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M
8021B

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**EB-4 6.5-7**	Lab Sample ID:	2002-03-0056-013
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 18:54
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/05/2002 18:54	
Benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 18:54	
Toluene	ND	0.0050	mg/Kg	1.00	03/05/2002 18:54	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 18:54	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/05/2002 18:54	
MTBE	ND	0.0050	mg/Kg	1.00	03/05/2002 18:54	
Surrogate(s)						
Trifluorotoluene	92.8	53-125	%	1.00	03/05/2002 18:54	
4-Bromofluorobenzene-FID	87.7	58-124	%	1.00	03/05/2002 18:54	

Submission #: 2002-03-0056

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Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M
8021B

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**EB-4 11.5-12**	Lab Sample ID:	2002-03-0056-014
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 19:25
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/05/2002 19:25	
Benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 19:25	
Toluene	ND	0.0050	mg/Kg	1.00	03/05/2002 19:25	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 19:25	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/05/2002 19:25	
MTBE	ND	0.0050	mg/Kg	1.00	03/05/2002 19:25	
Surrogate(s)						
Trifluorotoluene	94.6	53-125	%	1.00	03/05/2002 19:25	
4-Bromofluorobenzene-FID	93.8	58-124	%	1.00	03/05/2002 19:25	

Submission #: 2002-03-0056

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Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M
8021B

Prep Method: 5035

Sample ID: **EB-5 7.5-8**
Project: 1424-9B
Powell SF.

Sampled: 03/04/2002
Matrix: Soil

Lab Sample ID: 2002-03-0056-015
Received: 03/04/2002 18:10

Extracted: 03/06/2002 12:11
QC-Batch: 2002/03/06-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	2.0	1.0	mg/Kg	1.00	03/06/2002 12:11	g
Benzene	ND	0.0050	mg/Kg	1.00	03/06/2002 12:11	
Toluene	ND	0.0050	mg/Kg	1.00	03/06/2002 12:11	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/06/2002 12:11	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/06/2002 12:11	
MTBE	ND	0.0050	mg/Kg	1.00	03/06/2002 12:11	
Surrogate(s)						
Trifluorotoluene	102.6	53-125	%	1.00	03/06/2002 12:11	
4-Bromofluorobenzene-FID	109.6	58-124	%	1.00	03/06/2002 12:11	

Submission #: 2002-03-0056

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Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M 8021B

Prep Method: 5035

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CA DHS ELAP#1094

Sample ID:	**EB-6 9-9.5**	Lab Sample ID:	2002-03-0056-017
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 20:56
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/05/2002 20:56	
Benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 20:56	
Toluene	ND	0.0050	mg/Kg	1.00	03/05/2002 20:56	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 20:56	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/05/2002 20:56	
MTBE	ND	0.0050	mg/Kg	1.00	03/05/2002 20:56	
Surrogate(s)						
Trifluorotoluene	64.6	53-125	%	1.00	03/05/2002 20:56	
4-Bromofluorobenzene-FID	83.3	58-124	%	1.00	03/05/2002 20:56	

Submission #: 2002-03-0056

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Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M
8021B

Prep Method: 5035

Sample ID: **EB-6 11-11.5**
Project: 1424-9B
Powell SF.

Sampled: 03/04/2002
Matrix: Soil

Lab Sample ID: 2002-03-0056-018
Received: 03/04/2002 18:10

Extracted: 03/05/2002 21:27
QC-Batch: 2002/03/05-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/05/2002 21:27	
Benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 21:27	
Toluene	ND	0.0050	mg/Kg	1.00	03/05/2002 21:27	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/05/2002 21:27	
Xylene(s)	ND	0.0050	mg/Kg	1.00	03/05/2002 21:27	
MTBE	ND	0.0050	mg/Kg	1.00	03/05/2002 21:27	
Surrogate(s)						
Trifluorotoluene	79.5	53-125	%	1.00	03/05/2002 21:27	
4-Bromofluorobenzene-FID	103.9	58-124	%	1.00	03/05/2002 21:27	

Submission #: 2002-03-0056

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5035

Method Blank **Soil** **QC Batch # 2002/03/05-01.03**

MB: 2002/03/05-01.03-003 Date Extracted: 03/05/2002 08:30

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	03/05/2002 08:30	
Benzene	ND	0.0050	mg/Kg	03/05/2002 08:30	
Toluene	ND	0.0050	mg/Kg	03/05/2002 08:30	
Ethyl benzene	ND	0.0050	mg/Kg	03/05/2002 08:30	
Xylene(s)	ND	0.0050	mg/Kg	03/05/2002 08:30	
MTBE	ND	0.0050	mg/Kg	03/05/2002 08:30	
Surrogate(s)					
Trifluorotoluene	92.4	53-125	%	03/05/2002 08:30	
4-Bromofluorobenzene-FID	90.8	58-124	%	03/05/2002 08:30	

Submission #: 2002-03-0056

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5035

Method Blank | **Soil** | **QC Batch # 2002/03/06-01.03**

MB: 2002/03/06-01.03-003 | Date Extracted: 03/06/2002 08:31

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	03/06/2002 08:31	
Benzene	ND	0.0050	mg/Kg	03/06/2002 08:31	
Toluene	ND	0.0050	mg/Kg	03/06/2002 08:31	
Ethyl benzene	ND	0.0050	mg/Kg	03/06/2002 08:31	
Xylene(s)	ND	0.0050	mg/Kg	03/06/2002 08:31	
MTBE	ND	0.0050	mg/Kg	03/06/2002 08:31	
Surrogate(s)					
Trifluorotoluene	100.8	53-125	%	03/06/2002 08:31	
4-Bromofluorobenzene-FID	99.1	58-124	%	03/06/2002 08:31	

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/05-01.03**

LCS: 2002/03/05-01.03-004 Extracted: 03/05/2002 09:01 Analyzed: 03/05/2002 09:01

LCSD: 2002/03/05-01.03-005 Extracted: 03/05/2002 09:32 Analyzed: 03/05/2002 09:32

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0953	0.0878	0.1000	0.1000	95.3	87.8	8.2	77-123	35		
Toluene	0.0919	0.0853	0.1000	0.1000	91.9	85.3	7.4	78-122	35		
Ethyl benzene	0.0912	0.0856	0.1000	0.1000	91.2	85.6	6.3	70-130	35		
Xylene(s)	0.272	0.258	0.300	0.300	90.7	86.0	5.3	75-125	35		
Surrogate(s)											
Trifluorotoluene	460	434	500	500	92.0	86.8		53-125	0		

Submission #: 2002-03-0056

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/05-01.03**

LCS: 2002/03/05-01.03-006 Extracted: 03/05/2002 10:02 Analyzed: 03/05/2002 10:02

LCSD: 2002/03/05-01.03-007 Extracted: 03/05/2002 10:33 Analyzed: 03/05/2002 10:33

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.470	0.469	0.500	0.500	94.0	93.8	0.2	75-125	35		
Surrogate(s)											
4-Bromofluorobenzene	433	445	500	500	86.6	89.0		58-124	0		

Submission #: 2002-03-0056

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/06-01.03**

LCS: 2002/03/06-01.03-004 Extracted: 03/06/2002 09:02 Analyzed: 03/06/2002 09:02

LCSD: 2002/03/06-01.03-005 Extracted: 03/06/2002 09:33 Analyzed: 03/06/2002 09:33

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Benzene	0.0949	0.0905	0.1000	0.1000	94.9	90.5	4.7	77-123	35		
Toluene	0.0911	0.0879	0.1000	0.1000	91.1	87.9	3.6	78-122	35		
Ethyl benzene	0.0895	0.0878	0.1000	0.1000	89.5	87.8	1.9	70-130	35		
Xylene(s)	0.269	0.266	0.300	0.300	89.7	88.7	1.1	75-125	35		
Surrogate(s)											
Trifluorotoluene	455	433	500	500	91.0	86.6		53-125			

Submission #: 2002-03-0056

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M Prep Method: 5035

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/06-01.03**

LCS: 2002/03/06-01.03-006 Extracted: 03/06/2002 10:03 Analyzed: 03/06/2002 10:03

LCSD: 2002/03/06-01.03-007 Extracted: 03/06/2002 10:34 Analyzed: 03/06/2002 10:34

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.467	0.432	0.500	0.500	93.4	86.4	7.8	75-125	35		
Surrogate(s)											
4-Bromofluorobenzene	433	412	500	500	86.6	82.4		58-124			

Submission #: 2002-03-0056

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Gas/BTEX Compounds by 8015M/8021

Batch QC Report

Test Method: 8021B Prep Method: 5035

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2002/03/05-01.03**

Sample ID: **EB-3 15.5-16 >> MS** Lab ID: 2002-03-0056-011

MS: 2002/03/05-01.03-017 Extracted: 03/05/2002 16:51 Analyzed: 03/05/2002 16:51
Dilution: 1

MSD: 2002/03/05-01.03-018 Extracted: 03/05/2002 17:22 Analyzed: 03/05/2002 17:22
Dilution: 1

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Benzene	0.0834	0.0814	ND	0.0986	0.0984	84.6	82.7	2.3	65-135	35		
Toluene	0.0812	0.0800	ND	0.0986	0.0984	82.4	81.3	1.3	65-135	35		
Ethyl benzene	0.0798	0.0798	ND	0.0986	0.0984	80.9	81.1	0.2	65-135	35		
Xylene(s)	0.239	0.242	ND	0.30	0.295	79.7	82.0	2.8	65-135	35		
Surrogate(s)												
Trifluorotoluene	382	387		500	500	76.4	77.4		53-125			

Submission #: 2002-03-0056

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC Report

Test Method: 8015M Prep Method: 5035

Matrix Spike (MS / MSD)	**Soil**	**QC Batch # 2002/03/05-01.03**
Sample ID: **EB-3 15.5-16 >> MS**		Lab ID: 2002-03-0056-011
MS: 2002/03/05-01.03-019	Extracted: 03/05/2002 17:53	Analyzed: 03/05/2002 17:53
		Dilution: 1
MSD: 2002/03/05-01.03-020	Extracted: 03/05/2002 18:24	Analyzed: 03/05/2002 18:24
		Dilution: 1

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Gasoline	0.378	0.408	ND	0.495	0.491	76.4	83.1	8.4	65-135	35		
Surrogate(s)												
4-Bromofluoroben	368	399		500	500	73.6	79.8		58-124			

Submission #: 2002-03-0056

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Gas/BTEX Compounds by 8015M/8021

Legend & Notes

Test Method: 8021B
8015M

Prep Method: 5035

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

Submission #: 2002-03-0056

Gas/BTEX Compounds (High Level)

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell SF.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-5 9.5-10	Soil	03/04/2002	16

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 8015M
8021B

Prep Method: 5030

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CA DHS ELAP#1094

Sample ID:	**EB-5 9.5-10**	Lab Sample ID:	2002-03-0056-016
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/08/2002 15:21
Sampled:	03/04/2002	QC-Batch:	2002/03/08-05.03
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	15	10	mg/Kg	1.00	03/11/2002 15:21	g
Benzene	ND	0.62	mg/Kg	1.00	03/11/2002 15:21	
Toluene	ND	0.62	mg/Kg	1.00	03/11/2002 15:21	
Ethyl benzene	ND	0.62	mg/Kg	1.00	03/11/2002 15:21	
Xylene(s)	ND	0.62	mg/Kg	1.00	03/11/2002 15:21	
MTBE	ND	0.62	mg/Kg	1.00	03/11/2002 15:21	
Surrogate(s)						
Trifluorotoluene	93.1	53-125	%	1.00	03/11/2002 15:21	
4-Bromofluorobenzene-FID	95.8	58-124	%	1.00	03/11/2002 15:21	

Submission #: 2002-03-0056

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5030

Method Blank **Soil** **QC Batch # 2002/03/08-05.03**

MB: 2002/03/08-05.03-001 Date Extracted: 03/08/2002 10:41

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	10	mg/Kg	03/08/2002 10:41	
Benzene	ND	0.62	mg/Kg	03/08/2002 10:41	
Toluene	ND	0.62	mg/Kg	03/08/2002 10:41	
Ethyl benzene	ND	0.62	mg/Kg	03/08/2002 10:41	
Xylene(s)	ND	0.62	mg/Kg	03/08/2002 10:41	
MTBE	ND	0.62	mg/Kg	03/08/2002 10:41	
Surrogate(s)					
Trifluorotoluene	106.0	53-125	%	03/08/2002 10:41	
4-Bromofluorobenzene-FID	91.5	58-124	%	03/08/2002 10:41	

Submission #: 2002-03-0056

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/08-05.03**

LCS: 2002/03/08-05.03-002 Extracted: 03/08/2002 11:12 Analyzed: 03/08/2002 11:13

LCSD: 2002/03/08-05.03-003 Extracted: 03/08/2002 11:43 Analyzed: 03/08/2002 11:43

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Gasoline	0.748	0.733	0.625	0.625	119.7	117.3	2.0	75-125	35		
Benzene	0.127	0.130	0.125	0.125	101.6	104.0	2.3	77-123	35		
Toluene	0.131	0.133	0.125	0.125	104.8	106.4	1.5	78-122	35		
Ethyl benzene	0.126	0.129	0.125	0.125	100.8	103.2	2.4	70-130	35		
Xylene(s)	0.388	0.397	0.375	0.375	103.5	105.9	2.3	75-125	35		
Surrogate(s)											
Trifluorotoluene	104	104	100	100	104.0	104.0		53-125	0		
4-Bromofluorobenzene	90.9	90.0	100	100	90.9	90.0		58-124	0		

Submission #: 2002-03-0056

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CA DHS ELAP#1094

Gas/BTEX Compounds (High Level)

Legend & Notes

Test Method: 8015M
8021B

Prep Method: 5030

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard

Submission #: 2002-03-0056

Metals

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
Attn: Mark Arniola	Phone: (510) 267-1970 Fax: (510) 267-1972
1424-9B	Project: Powell SF.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-4 4-4.5	Soil	03/04/2002	12

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Metals

Lowney & Associates Oakland

Attn: Mark Arniola

Test Method: 6010B
7471A

Prep Method: 3050B
7471A

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CA DHS ELAP#1094

Sample ID:	**EB-4 4-4.5**	Lab Sample ID:	2002-03-0056-012
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/06/2002 05:14
Sampled:	03/04/2002	QC-Batch:	2002/03/05-03.16 2002/03/06-01.15
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Arsenic	1.4	1.0	mg/Kg	1.00	03/06/2002 10:29	
Cadmium	1.1	0.50	mg/Kg	1.00	03/06/2002 10:29	
Lead	5.9	1.0	mg/Kg	1.00	03/06/2002 10:29	
Mercury	0.18	0.050	mg/Kg	1.00	03/05/2002 15:36	

Submission #: 2002-03-0056

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Metals

Batch QC report

Test Method: 7471A Prep Method: 7471A

Method Blank **Soil** **QC Batch # 2002/03/05-03.16**

MB: 2002/03/05-03.16-056 Date Extracted: 03/05/2002 10:17

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Mercury	ND	0.050	mg/Kg	03/05/2002 15:05	

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CA DHS ELAP#1094

Metals

Batch QC report

Test Method: 6010B Prep Method: 3050B

Method Blank **Soil** **QC Batch # 2002/03/06-01.15**

MB: 2002/03/06-01.15-011 Date Extracted: 03/06/2002 05:14

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Arsenic	ND	1.0	mg/Kg	03/06/2002 09:01	
Cadmium	ND	0.50	mg/Kg	03/06/2002 09:01	
Lead	ND	1.0	mg/Kg	03/06/2002 09:01	

Submission #: 2002-03-0056

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CA DHS ELAP#1094

Metals

Batch QC report

Test Method: 7471A Prep Method: 7471A

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/05-03.16**

LCS: 2002/03/05-03.16-057 Extracted: 03/05/2002 10:17 Analyzed: 03/05/2002 15:06

LCSD: 2002/03/05-03.16-058 Extracted: 03/05/2002 10:17 Analyzed: 03/05/2002 15:08

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Mercury	0.450	0.446	0.500	0.500	90.0	89.2	0.9	85-115	20		

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CA DHS ELAP#1094

Metals

Batch QC report

Test Method: 6010B Prep Method: 3050B

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/06-01.15**

LCS: 2002/03/06-01.15-012 Extracted: 03/06/2002 05:14 Analyzed: 03/06/2002 09:06

LCSD: 2002/03/06-01.15-013 Extracted: 03/06/2002 05:14 Analyzed: 03/06/2002 09:09

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Arsenic	96.3	94.5	100.0	100.0	96.3	94.5	1.9	80-120	20		
Cadmium	93.1	92.1	100.0	100.0	93.1	92.1	1.1	80-120	20		
Lead	94.5	93.0	100.0	100.0	94.5	93.0	1.6	80-120	20		

Submission #: 2002-03-0056

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CA DHS ELAP#1094

Lowney & Associates Oakland	☒ 167 Filbert Street Oakland, Ca 94607
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1424-9B	Project: Powell SF.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-4 4-4.5	Soil	03/04/2002	12

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

Organochlorine Pesticides Analysis

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8081
Prep Method: 3550/8081

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CA DHS ELAP#1094

Sample ID:	**EB-4 4-4.5**	Lab Sample ID:	2002-03-0056-012
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/04/2002 08:41
Sampled:	03/04/2002	QC-Batch:	2002/03/04-01.13
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
Dieldrin	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
Endrin aldehyde	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
Endrin	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
Endrin ketone	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
Heptachlor	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
Heptachlor epoxide	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
4,4`-DDT	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
4,4`-DDE	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
4,4`-DDD	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
Endosulfan I	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
Endosulfan II	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
alpha-BHC	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
beta-BHC	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
delta-BHC	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
Endosulfan sulfate	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
4,4`-Methoxychlor	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
Toxaphene	ND	100	ug/Kg	1.00	03/05/2002 14:17	
Chlordane (Technical)	ND	50	ug/Kg	1.00	03/05/2002 14:17	
alpha-Chlordane	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
gamma-Chlordane	ND	2.0	ug/Kg	1.00	03/05/2002 14:17	
Surrogate(s)						
2,4,5,6-Tetrachloro-m-xylene	95.7	50-125	%	1.00	03/05/2002 14:17	
Decachlorobiphenyl (Pest/8081)	87.4	46-142	%	1.00	03/05/2002 14:17	

Submission #: 2002-03-0056

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Organochlorine Pesticides Analysis

Batch QC report

Test Method: 8081 Prep Method: 3550/8081

Method Blank **Soil** **QC Batch # 2002/03/04-01.13**

MB: 2002/03/04-01.13-001 Date Extracted: 03/04/2002 08:41

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Aldrin	ND	2.0	ug/Kg	03/05/2002 01:16	
Dieldrin	ND	2.0	ug/Kg	03/05/2002 01:16	
Endrin aldehyde	ND	2.0	ug/Kg	03/05/2002 01:16	
Endrin	ND	2.0	ug/Kg	03/05/2002 01:16	
Endrin ketone	ND	2.0	ug/Kg	03/05/2002 01:16	
Heptachlor	ND	2.0	ug/Kg	03/05/2002 01:16	
Heptachlor epoxide	ND	2.0	ug/Kg	03/05/2002 01:16	
4,4`-DDT	ND	2.0	ug/Kg	03/05/2002 01:16	
4,4`-DDE	ND	2.0	ug/Kg	03/05/2002 01:16	
4,4`-DDD	ND	2.0	ug/Kg	03/05/2002 01:16	
Endosulfan I	ND	2.0	ug/Kg	03/05/2002 01:16	
Endosulfan II	ND	2.0	ug/Kg	03/05/2002 01:16	
alpha-BHC	ND	2.0	ug/Kg	03/05/2002 01:16	
beta-BHC	ND	2.0	ug/Kg	03/05/2002 01:16	
gamma-BHC (Lindane)	ND	2.0	ug/Kg	03/05/2002 01:16	
delta-BHC	ND	2.0	ug/Kg	03/05/2002 01:16	
Endosulfan sulfate	ND	2.0	ug/Kg	03/05/2002 01:16	
4,4`-Methoxychlor	ND	2.0	ug/Kg	03/05/2002 01:16	
Toxaphene	ND	100	ug/Kg	03/05/2002 01:16	
Chlordane (Technical)	ND	50	ug/Kg	03/05/2002 01:16	
alpha-Chlordane	ND	2.0	ug/Kg	03/05/2002 01:16	
gamma-Chlordane	ND	2.0	ug/Kg	03/05/2002 01:16	
Surrogate(s)					
2,4,5,6-Tetrachloro-m-xylene	82.3	50-125	%	03/05/2002 01:16	
Decachlorobiphenyl (Pest/8081)	92.8	46-142	%	03/05/2002 01:16	

Submission #: 2002-03-0056

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Organochlorine Pesticides Analysis

Batch QC report

Test Method: 8081 Prep Method: 3550/8081

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/04-01.13**

LCS: 2002/03/04-01.13-002 Extracted: 03/04/2002 08:41 Analyzed: 03/05/2002 01:46

LCSD: 2002/03/04-01.13-003 Extracted: 03/04/2002 08:41 Analyzed: 03/05/2002 02:17

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Aldrin	13.9	14.3	16.7	16.7	83.2	85.6	2.8	37-136	25		
Dieldrin	14.2	14.8	16.7	16.7	85.0	88.6	4.1	58-135	35		
Endrin	15.4	16.0	16.7	16.7	92.2	95.8	3.8	58-134	35		
Heptachlor	14.1	14.6	16.7	16.7	84.4	87.4	3.5	40-136	20		
4,4`-DDT	14.2	14.9	16.7	16.7	85.0	89.2	4.8	55-132	35		
gamma-BHC (Lindane)	13.8	14.2	16.7	16.7	82.6	85.0	2.9	37-137	35		
Surrogate(s)											
2,4,5,6-Tetrachloro-m-	43.5	45.6	50	50	86.9	91.2		50-125	0		
Decachlorobiphenyl	49.0	51.3	50	50	98.1	102.6		46-142	0		

Submission #: 2002-03-0056

TEPH w/ Silica Gel Clean-up

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CA DHS ELAP#1094

Lowney & Associates Oakland	✉ 167 Filbert Street Oakland, Ca 94607
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1424-9B	Project: Powell SF.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
EB-2	Water	03/04/2002	1
EB-3	Water	03/04/2002	2
EB-4	Water	03/04/2002	3
EB-5	Water	03/04/2002	4
EB-6	Water	03/04/2002	5
EB-2 9-9.5	Soil	03/04/2002	6
EB-2 11-11.5	Soil	03/04/2002	7
EB-1 7-7.5	Soil	03/04/2002	8
EB-1 17.5-18	Soil	03/04/2002	9
EB-3 8-8.5	Soil	03/04/2002	10
EB-3 15.5-16	Soil	03/04/2002	11
EB-4 6.5-7	Soil	03/04/2002	13
EB-4 11.5-12	Soil	03/04/2002	14
EB-5 7.5-8	Soil	03/04/2002	15
EB-5 9.5-10	Soil	03/04/2002	16
EB-6 9-9.5	Soil	03/04/2002	17
EB-6 11-11.5	Soil	03/04/2002	18

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-2**	Lab Sample ID:	2002-03-0056-001
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/04/2002 19:58
Sampled:	03/04/2002	QC-Batch:	2002/03/04-05.10
Matrix:	Water		

Sample/Analysis Flag: rl (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	74	ug/L	1.47	03/06/2002 23:49	
Motor Oil	ND	740	ug/L	1.47	03/06/2002 23:49	
Surrogate(s)						
o-Terphenyl	109.0	60-130	%	1.47	03/06/2002 23:49	

Submission #: 2002-03-0056

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TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID: **EB-3**
Project: 1424-9B
Powell SF.
Sampled: 03/04/2002
Matrix: Water
Sample/Analysis Flag: rl (See Legend & Note section)

Lab Sample ID: 2002-03-0056-002
Received: 03/04/2002 18:10
Extracted: 03/04/2002 19:58
QC-Batch: 2002/03/04-05.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	2800	50	ug/L	2.00	03/06/2002 20:07	ndp
Motor Oil	ND	1000	ug/L	2.00	03/06/2002 20:07	
Surrogate(s)						
o-Terphenyl	120.6	60-130	%	2.00	03/06/2002 20:07	

Submission #: 2002-03-0056

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TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-4**	Lab Sample ID:	2002-03-0056-003
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/11/2002 09:33
Sampled:	03/04/2002	QC-Batch:	2002/03/11-01.10
Matrix:	Water		

Sample/Analysis Flag: rl (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	4600	130	ug/L	2.50	03/11/2002 13:08	ndp
Motor Oil	31000	1300	ug/L	2.50	03/11/2002 13:08	
Surrogate(s)						
o-Terphenyl	44.1	60-130	%	2.50	03/11/2002 13:08	sl

Submission #: 2002-03-0056

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Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID: **EB-5**
Project: 1424-9B
Powell SF.
Sampled: 03/04/2002
Matrix: Water
Sample/Analysis Flag: rl (See Legend & Note section)

Lab Sample ID: 2002-03-0056-004
Received: 03/04/2002 18:10
Extracted: 03/04/2002 19:58
QC-Batch: 2002/03/04-05.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	800000	45000	ug/L	892.86	03/07/2002 15:57	ndp
Motor Oil	ND	450000	ug/L	892.86	03/07/2002 15:57	
Surrogate(s)						
o-Terphenyl	NA	60-130	%	892.86	03/07/2002 15:57	sd

Submission #: 2002-03-0056

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TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID: **EB-6**
Project: 1424-9B
Powell SF.
Sampled: 03/04/2002
Matrix: Water

Lab Sample ID: 2002-03-0056-005
Received: 03/04/2002 18:10
Extracted: 03/04/2002 19:58
QC-Batch: 2002/03/04-05.10

Sample/Analysis Flag: rl (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	150	81	ug/L	1.61	03/07/2002 03:30	ndp
Motor Oil	ND	810	ug/L	1.61	03/07/2002 03:30	
Surrogate(s)						
o-Terphenyl	101.2	60-130	%	1.61	03/07/2002 03:30	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-2 9-9.5**	Lab Sample ID:	2002-03-0056-006
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 06:38
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1.2	1.0	mg/Kg	1.00	03/06/2002 23:12	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/06/2002 23:12	
Surrogate(s)						
o-Terphenyl	85.5	60-130	%	1.00	03/06/2002 23:12	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**EB-2 11-11.5**	Lab Sample ID:	2002-03-0056-007
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 06:38
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	03/06/2002 23:49	
Motor Oil	ND	50	mg/Kg	1.00	03/06/2002 23:49	
Surrogate(s)						
o-Terphenyl	66.5	60-130	%	1.00	03/06/2002 23:49	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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1220 Quarry Lane
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CA DHS ELAP#1094

Sample ID:	**EB-1 7-7.5**	Lab Sample ID:	2002-03-0056-008
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 06:38
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1.1	1	mg/Kg	1.00	03/07/2002 05:59	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/07/2002 05:59	
Surrogate(s)						
o-Terphenyl	94.5	60-130	%	1.00	03/07/2002 05:59	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID: **EB-1 17.5-18**
Project: 1424-9B
Powell SF.

Sampled: 03/04/2002
Matrix: Soil

Lab Sample ID: 2002-03-0056-009
Received: 03/04/2002 18:10

Extracted: 03/05/2002 06:38
QC-Batch: 2002/03/05-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	03/07/2002 02:54	
Motor Oil	ND	50	mg/Kg	1.00	03/07/2002 02:54	
Surrogate(s)						
o-Terphenyl	84.1	60-130	%	1.00	03/07/2002 02:54	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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Pleasanton, CA 94566

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CA DHS ELAP#1094

Sample ID:	**EB-3 8-8.5**	Lab Sample ID:	2002-03-0056-010
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 06:38
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	94	1	mg/Kg	1.00	03/07/2002 02:54	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/07/2002 02:54	
Surrogate(s)						
o-Terphenyl	97.1	60-130	%	1.00	03/07/2002 02:54	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-3 15.5-16**	Lab Sample ID:	2002-03-0056-011
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 06:38
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	03/07/2002 05:22	
Motor Oil	ND	50	mg/Kg	1.00	03/07/2002 05:22	
Surrogate(s)						
o-Terphenyl	98.5	60-130	%	1.00	03/07/2002 05:22	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-4 6.5-7**	Lab Sample ID:	2002-03-0056-013
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 06:38
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	5.0	1	mg/Kg	1.00	03/07/2002 06:36	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/07/2002 06:36	
Surrogate(s)						
o-Terphenyl	83.1	60-130	%	1.00	03/07/2002 06:36	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID: **EB-4 11.5-12**
Project: 1424-9B
Powell SF.
Sampled: 03/04/2002
Matrix: Soil

Lab Sample ID: 2002-03-0056-014
Received: 03/04/2002 18:10
Extracted: 03/05/2002 06:38
QC-Batch: 2002/03/05-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	03/07/2002 04:45	
Motor Oil	ND	50	mg/Kg	1.00	03/07/2002 04:45	
Surrogate(s)						
o-Terphenyl	94.2	60-130	%	1.00	03/07/2002 04:45	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-5 7.5-8**	Lab Sample ID:	2002-03-0056-015
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 06:38
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	62	1.0	mg/Kg	1.00	03/07/2002 04:45	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/07/2002 04:45	
Surrogate(s)						
o-Terphenyl	97.8	60-130	%	1.00	03/07/2002 04:45	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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www.chromalab.com
CA DHS ELAP#1094

Sample ID:	**EB-6 9-9.5**	Lab Sample ID:	2002-03-0056-017
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 06:38
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	03/07/2002 04:08	
Motor Oil	ND	50	mg/Kg	1.00	03/07/2002 04:08	
Surrogate(s)						
o-Terphenyl	82.8	60-130	%	1.00	03/07/2002 04:08	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-5 9.5-10**	Lab Sample ID:	2002-03-0056-016
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 06:38
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	10	1.0	mg/Kg	1.00	03/07/2002 04:08	ndp
Motor Oil	ND	50	mg/Kg	1.00	03/07/2002 04:08	
Surrogate(s)						
o-Terphenyl	93.1	60-130	%	1.00	03/07/2002 04:08	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Lowney & Associates Oakland
Attn: Mark Arniola

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

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CA DHS ELAP#1094

Sample ID:	**EB-6 11-11.5**	Lab Sample ID:	2002-03-0056-018
Project:	1424-9B Powell SF.	Received:	03/04/2002 18:10
		Extracted:	03/05/2002 06:38
Sampled:	03/04/2002	QC-Batch:	2002/03/05-01.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	03/07/2002 03:30	
Motor Oil	ND	50	mg/Kg	1.00	03/07/2002 03:30	
Surrogate(s)						
o-Terphenyl	89.4	60-130	%	1.00	03/07/2002 03:30	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3510/8015 M

Method Blank **Water** **QC Batch # 2002/03/04-05.10**

MB: 2002/03/04-05.10-001 Date Extracted: 03/04/2002 19:58

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	03/06/2002 18:52	
Motor Oil	ND	500	ug/L	03/06/2002 18:52	
Surrogate(s)					
o-Terphenyl	109.9	60-130	%	03/06/2002 18:52	

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M

Prep Method: 3550/8015 M

Method Blank **Soil** **QC Batch # 2002/03/05-01.10**

MB: 2002/03/05-01.10-001

Date Extracted: 03/05/2002 06:38

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	03/06/2002 18:52	
Motor Oil	ND	50	mg/Kg	03/06/2002 18:52	
Surrogate(s)					
o-Terphenyl	88.3	60-130	%	03/06/2002 18:52	

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

TEPH w/ Silica Gel Clean-up

Batch QC report

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CA DHS ELAP#1094

Test Method: 8015M

Prep Method: 3510/8015 M

Method Blank | **Water** | **QC Batch # 2002/03/11-01.10**

MB: 2002/03/11-01.10-001 | Date Extracted: 03/11/2002 09:33

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	03/11/2002 13:08	
Motor Oil	ND	500	ug/L	03/11/2002 13:08	
Surrogate(s)					
o-Terphenyl	104.6	60-130	%	03/11/2002 13:08	

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M Prep Method: 3510/8015M

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/03/04-05.10**

LCS: 2002/03/04-05.10-002 Extracted: 03/04/2002 19:58 Analyzed: 03/06/2002 17:38

LCSD: 2002/03/04-05.10-003 Extracted: 03/04/2002 19:58 Analyzed: 03/06/2002 18:15

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	982	1140	1250	1250	78.6	91.2	14.8	60-130	25		
Surrogate(s)											
o-Terphenyl	21.8	22.2	20.0	20.0	109.1	111.1		60-130	0		

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M Prep Method: 3550/8015M

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2002/03/05-01.10**

LCS: 2002/03/05-01.10-002 Extracted: 03/05/2002 06:38 Analyzed: 03/06/2002 17:38

LCSD: 2002/03/05-01.10-003 Extracted: 03/05/2002 06:38 Analyzed: 03/06/2002 18:15

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	34.8	34.2	41.7	41.7	83.5	82.0	1.8	60-130	25		
Surrogate(s)											
o-Terphenyl	19.9	19.7	20.0	20.0	99.3	98.7		60-130	0		

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC report

Test Method: 8015M Prep Method: 3510/8015M

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2002/03/11-01.10**

LCS: 2002/03/11-01.10-002 Extracted: 03/11/2002 09:33 Analyzed: 03/11/2002 13:53

LCSD: 2002/03/11-01.10-003 Extracted: 03/11/2002 09:33 Analyzed: 03/11/2002 14:32

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Diesel	972	896	1250	1250	77.8	71.7	8.2	60-130	25		
Surrogate(s)											
o-Terphenyl	20.1	18.6	20.0	20.0	100.3	92.9		60-130	0		

Submission #: 2002-03-0056

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Batch QC Report

Test Method: 8015M Prep Method: 3550/8015M

Matrix Spike (MS / MSD) **Soil** **QC Batch # 2002/03/05-01.10**

Sample ID: **EB-2 9-9.5 >> MS** Lab ID: 2002-03-0056-006

MS: 2002/03/05-01.10-004 Extracted: 03/05/2002 06:38 Analyzed: 03/07/2002 05:22
Dilution: 1

MSD: 2002/03/05-01.10-005 Extracted: 03/05/2002 06:38 Analyzed: 03/07/2002 05:59
Dilution: 1

Compound	Conc. [mg/Kg]			Exp.Conc.		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Diesel	31.8	30.2	ND	41.6	41.4	76.4	72.9	4.7	60-130	25		
Surrogate(s)												
o-Terphenyl	15.1	15.3		20.0	20.0	75.3	76.7		60-130	0		

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

TEPH w/ Silica Gel Clean-up

Legend & Notes

Test Method: 8015M

Prep Method: 3510/8015M
3550/8015M

Analysis Flags

rl

Reporting limits raised due to reduced sample size.

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Analyte Flags

sd

Surrogate recovery not reportable due to required dilution.

Analyte Flags

sl

Surrogate recoveries were lower than QC limit due to matrix interference, confirme by reanalysis.

LOWNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

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☐ San Ramon Office
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San Ramon 94583
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Fax: 925.275.2555

CHAIN OF CUSTODY RECORD

2002-03-0056

Project Name: Powell St.
Job No.: 1424-93
Report To: Mark Arnold
Sampler (print): Charles Mettler
Sampler (signature): Chas Mettler
Electronic Deliverable Format Required: ☐ YES ☐ NO
EDF LOGCODE: ☐ LAMV ☐ LAO ☐ LAF
Global ID # : _____

Turnaround Requirements
- ☒ 5 Working Days
- ☐ 48 Hours
- ☐ 24 Hours
- ☐ 2-3 Hours RUSH
- ☐ _____

QC Requirement:
☒ Level A (standard)

ANALYSES REQUESTED 605037-

Sample I.D. (Field Point Name)	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M) + TPHmo silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 or 8260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M) (Purgeable and Extractable)			Strong HCl reaction with sed.: - H_2O samples -> bubbles!
EB-2				water	8	✓	✓		✓									✓
EB-3						✓	✓		✓									✓
EB-4						✓	✓		✓									✓
EB-5						✓	✓		✓									✓
EB-6						✓	✓		✓									✓
EB-2 9-9½						✓	✓											
EB-2 11-11½						✓	✓		✓									
EB-1 7-7½						✓	✓		✓									
EB-1 17½-18						✓	✓											
EB-3 8-8½						✓	✓		✓									
EB-3 15½-16						✓	✓											
EB-4 4-4½						✓	✓			✓	✓							

Relinquished By: Chas Mettler Date: 3-4-02 Time: 17:10
Relinquished By: [signature] Date: 3-4-02 Time:
Relinquished By: Date: Time:

Received By: [signature] Date: 3-05-02 Time: 1210
Received By: Date: Time:
Lab of Record:
Received by Lab: D. Hamilton Date: 3/4/02 Time: 1810

PM Initial:
Temp: 14.5°C

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2233 Camino Ramon
San Ramon 94583
Tel: 925.275.2555
Fax: 925.275.2555

2002.03.00056

CHAIN OF CUSTODY RECORD

65032

Project Name: Powell Street
Job No.: 1424-9B
Report To: Mark Arriola
Sampler (print): Charles Mettler
Sampler (signature): Chas Mettler

Electronic Deliverable Format Required: ☐ YES ☐ NO
EDF LOGCODE: ☐ LAMV ☐ LAO ☐ LAF
Global ID # : _____

Turnaround Requirements
- ☒ 5 Working Days
- ☐ 48 Hours
- ☐ 24 Hours
- ☐ 2-3 Hours RUSH
- ☐ _____

QC Requirement:
☒ Level A (standard)

ANALYSES REQUESTED

Sample I.D. (Field Point Name)	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE (8015/8020)	TPH as diesel (8015M) + TPH ms silica gel column	TRPH (418.1) silica gel column	Halogenated VOCs (8010) (8021 or 8260)	Organochlorine Pesticides (8081)	Metals - As, Hg, Pb, Cd (filter and preserve GW samples in lab)	Fuel Oxygenates (8260B)	PAHs (8310)	PCBs (8082)	Fuel Scan 8020/8015M) (Purgeable and Extractable)			
EB-4 5½-7						✓	✓											
EB-4 11½-12						✓	✓											
EB-5 7½-8						✓	✓		✓									
EB-5 9½-10						✓	✓											
EB-6 9-9½						✓	✓											
EB-6 11-11½						✓	✓											

Relinquished By: Chas Mettler	Date: 3-4-02	Time: 17:10	Received By: M. Arriola
Relinquished By: M. Arriola	Date: 3-4-02	Time:	Received By:
Relinquished By:	Date:	Time:	Lab of Record:
			Received by Lab: D. Harrington

Date: 3-04-0 Time: 17:10
Date: Time:
Date: 3/4/02 Time: 1810

PM Initial:
Temp:

J R ASSOCIATES

Engineering Geophysics
1886 Emory Street
San Jose, CA 95126
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GEOPHYSICAL INVESTIGATION AT 1300 AND 1350 POWELL STREET IN EMERYVILLE, CALIFORNIA

March 13, 2002

For

Lowney Associates
405 Clyde Avenue
Mountain View, CA 94043

By

James Rezowalli, GP-921

TABLE OF CONTENTS

LIST OF ILLUSTRATIONS

I INTRODUCTION

This report presents the results of a geophysical investigation performed at 1300 and 1350 Powell Street in Emeryville, California. The investigation was performed for Lowney Associates by J R Associates. The purpose of the investigation was to look for geophysical indications of underground fuel storage tanks and buried metal at the site. James Rezowalli, Principal Geophysicist, and Bob Wing, Technician, of J R Associates performed the field work in March of 2002.

A. Site

The geophysical investigation was performed on two properties, 1300 and 1350 Powell Street in Emeryville, California (Drawing 1). An industrial gas supply company occupies 1350 Powell Street. There were two tank vent pipes and a fill port on the side of a building at 1350 Powell (Drawing 2). A small vacant warehouse occupies 1300 Powell. The purpose of our investigation was to look for geophysical indications of buried fuel or oil storage tanks and buried metal debris at the two sites.

II METHODS

Several geophysical techniques can detect buried objects. The most appropriate method for this site was a magnetic investigation. A magnetic investigation maps the earth's magnetic field. The magnetic field is uniform throughout a site free of metal. The field at a site that contains ferrous metal is not uniform and will have magnetic anomalies. A magnetic anomaly indicates the location of a buried metal object and gives a rough estimate of the object's size and shape. For example, an anomaly caused by a rectangular object like a buried tank is characterized by a magnetic high just south of the center of the tank and a weaker magnetic low just north of the tank.

A. Magnetic Instrumentation

We used a Geometrics model 856AG proton precession magnetometer to collect magnetic data at the site. The magnetometer collected total field data. The magnetometer can discriminate to 0.1 gammas in a total field of 40,000 to 60,000 gammas. Magnetic readings were stored in memory with the time of day, station numbers and line numbers of the readings. The data were downloaded to a computer and contoured.

B. Magnetic Field Procedures

Drawing 2 shows the areas where data were collected. Magnetic data were collected on ten-foot centers throughout the area. A data collection station is shown by "+" on the magnetic contour map (Drawing 2). An anomaly is indicated by a series of concentric magnetic contours. There were many magnetic anomalies at the site. These anomalies will be discussed next in the report.

III RESULTS

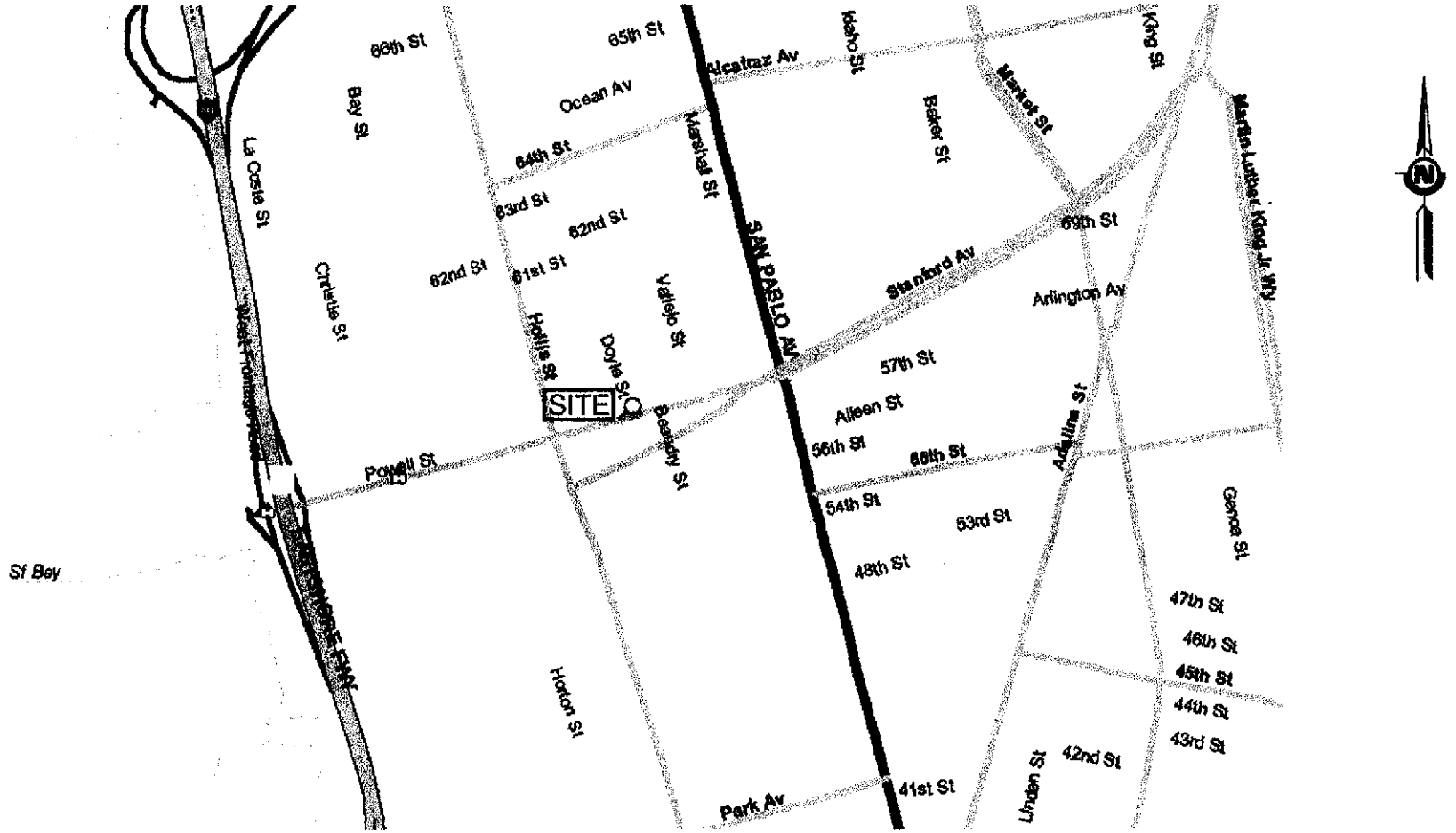
A. Magnetic Data

There were many magnetic anomalies found at both sites. (Drawing 2). Some anomalies were caused by surface metal. The surface metal included fences, rebar in concrete pads, the buildings, posts and compressed gas cylinders. Other anomalies were caused by buried utilities. There appeared to some abandoned pipes in the northwest corner of 1300 Powell Street. The utilities found during the investigation were marked on the ground with paint.

The was one anomaly that might have been caused by a buried object like a storage tank. It was at 1350 Powell Street next to the corner of the building in the middle of the lot. This anomaly is shown in red on Drawing 3. We could not tell if this anomaly was caused by metal in the building or by buried metal such as a tank. We recommended the anomaly be potholed to determine if it was caused by buried metal. Lowney potholed the anomaly a few days after our investigation and found no buried metal. We suspect the anomaly was caused by the metal in the side of the building.

B. Limitations

Magnetic methods locate ferrous objects from the anomalies they produce in the earth's magnetic field. It is possible some ferrous objects will not produce an anomaly. Some possible reasons are that the object is buried too deep, the object is too small, the object is buried under or near another ferrous object or an object is buried near a utility. The anomalies from metal on the ground surface can mask the anomalies from objects buried below them.



Vicinity Map
1300 and 1350 Powell Street
Emeryville, California

SCALE: No Scale			DRAWN BY: J.J.R.
DATE: 3-6-2002	JOB NUMBER: 113-010-02		REVISED:

J R ASSOCIATES Civil and Environmental Geophysics
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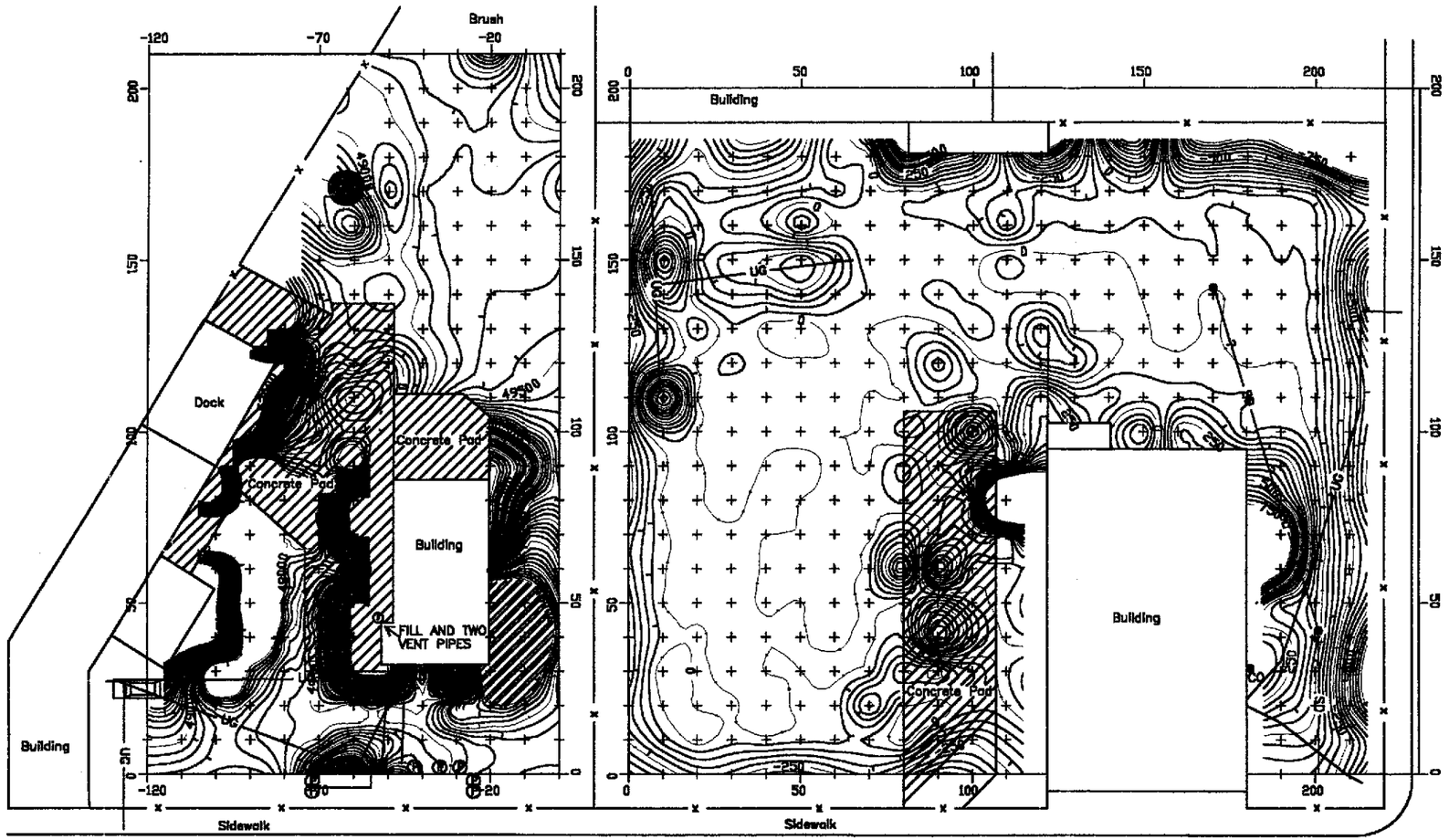
DRAWING NUMBER: 1



EXPLANATION:

- VEHICLE
- SURFACE METAL
- DRAIN OR MANHOLE COVER
- CONCRETE PAD
- FILL CAP
- POST
- FENCE
- BURIED PIPE
- BURIED ELECTRIC
- BURIED GAS
- BURIED STORM DRAIN
- MAGNETIC ANOMALY

Magnetic Contour Map
1300 and 1350 Powell Street
Emeryville, California

SCALE: 1" = 40'			DRAWN BY: J.J.R.
DATE: 3-6-2002	JOB NUMBER:	113-010-02	REVISED:

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DRAWING NUMBER: 2