

JAN 22 2004

Environmental Health

Mountain View
Fairfield
Oakland
San Ramon
Fullerton

January 12, 2004
1731-2G

Ms. Betty Graham
**CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD**
1515 Clay Street, Suite 1400
Oakland, California 94612

**RE: SHORELINE SAMPLING
303 AND 315 DERBY AVENUE
2901 AND 2909 GLASCOCK STREET
OAKLAND, CALIFORNIA**

Dear Ms. Graham:

We are pleased to present the results of the shoreline sampling at 303 and 315 Derby Avenue and 2901 and 2909 Glascock Street in Oakland, California (Site) (Figure 1). This work was performed at the request of California Regional Water Quality Control Board (CRWQCB) staff and Alameda County Environmental Health Department (ACEHD) staff to evaluate soil quality along the estuary shoreline.

Background

The October 20, 2003 ecological buffer zone work plan included an area of the estuary shoreline that will be capped by a low-permeability liner. The purpose of the liner is to reduce nuisance odors emanating from soil exposed along the shoreline. CRWQCB staff requested additional shoreline sampling to evaluate whether the planned extent of the liner was adequate and whether other shoreline areas required a liner. During our November 5, 2003 meeting, a concentration of 100 parts per million (ppm) total petroleum hydrocarbons as gasoline (TPHg) was established by the CRWQCB as the threshold above which a liner would be required. In addition, during the November 5, 2003 meeting at the Site, ACDEH staff requested the collection and analysis of soil samples from the shoreline of 2901 Glascock Street. Results of the sampling are summarized below.

Shoreline Observations

The January 6, 2004 Soil Removal Completion Report, Ground Water Quality Evaluation, and Ground Water Quality Monitoring Work Plan present the results of the removal activities at the Site. The report documented the removal and grouting of a ground water extraction trench and removal of pipelines that appear to have acted as preferential pathways for migration of petroleum hydrocarbons to the shoreline. Since completion of the removal activities, significant petroleum odors and sheen have not been noted on the estuary shoreline sediments.

Shoreline Soil Sampling

To evaluate the quality of soil along the estuary shoreline, 13 soil samples were collected from locations shown on Figure 2. Samples SS-8, SS-9, SS-10, and SS-11 were collected near the edges of the liner that is planned on 303 and 315 Derby Avenue. The purpose of these samples was to evaluate whether the extent of the planned liner was appropriate. The remaining soil samples were collected from randomly selected locations to evaluate sediment

quality. The soil samples were collected from the inter-tidal zone using hand sampling equipment. The soil samples were analyzed for TPHg, benzene, toluene, ethylbenzene, and xylene (BTEX), and MTBE (EPA Test Method 8020 and 8260). Soil sampling protocol and the complete analytical results and chain of custody documentation are presented in Attachment A.

**Table 1. Analytical Results of Selected Ground Water Samples
(concentrations in parts per million)**

Sample Number	Date	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
SS-8	11/3/2003	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SS-9	11/3/2003	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SS-10	11/3/2003	550	<3.1	<3.1	<3.1	<3.1	<3.1
SS-11	11/3/2003	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
SS-20	12/15/2003	2,400	<13	<13	<13	<13	<13
SS-21	12/15/2003	540	<2.5	<2.5	<2.5	<2.5	<2.5
SS-22	12/15/2003	2.0	<0.005	0.064	<0.005	<0.005	<0.005
SS-23	12/15/2003	6.0	<0.023	<0.023	<0.023	<0.023	<0.023
GSED-1	11/5/2003	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
GSED-2	11/5/2003	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
GSED-3	11/5/2003	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
GSED-4	11/5/2003	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
GSED-5	11/5/2004	<1.0	<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

Conclusions

Laboratory analyses of soil samples collected from the shoreline of 2901 Glascock Street did not detect TPHg, BTEX, or MTBE. Laboratory analyses of sediment samples SS-10, SS-20, and SS-21 detected TPHg above 100 ppm. Soil sample SS-10 was located approximately 10 feet south of the southern edge of the liner. The liner, therefore, will be extended toward the south as shown on Figure 2. Soil samples SS-20 and SS-21 were collected from the shoreline of the new University of California Men's Crew parcel. A liner will be placed below the riprap slope dressing in the area of these samples, as shown on Figure 2.

As noted above, no significant petroleum odors have been noted on shoreline soil since completion of the soil removal actions. Therefore, the liner is a conservative measure that will be implemented to further reduce the potential for nuisance odors along the shoreline.

Limitations

This report was prepared for the sole use of Signature Properties and the Friends of Cal Crew. 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

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JAN 22 2004

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.

If you have any questions, please call and we will be glad to discuss them with you.

Very truly yours,

LOWNEY ASSOCIATES

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

RLH:PML

Copies: Addressee (2)

Signature Properties

Attn: Ms. Mary Grace Houlihan (1)

Mr. Marc Stice (1)

Mr. Patrick Van Ness (1)

Alameda County Health Care Services Agency (1)

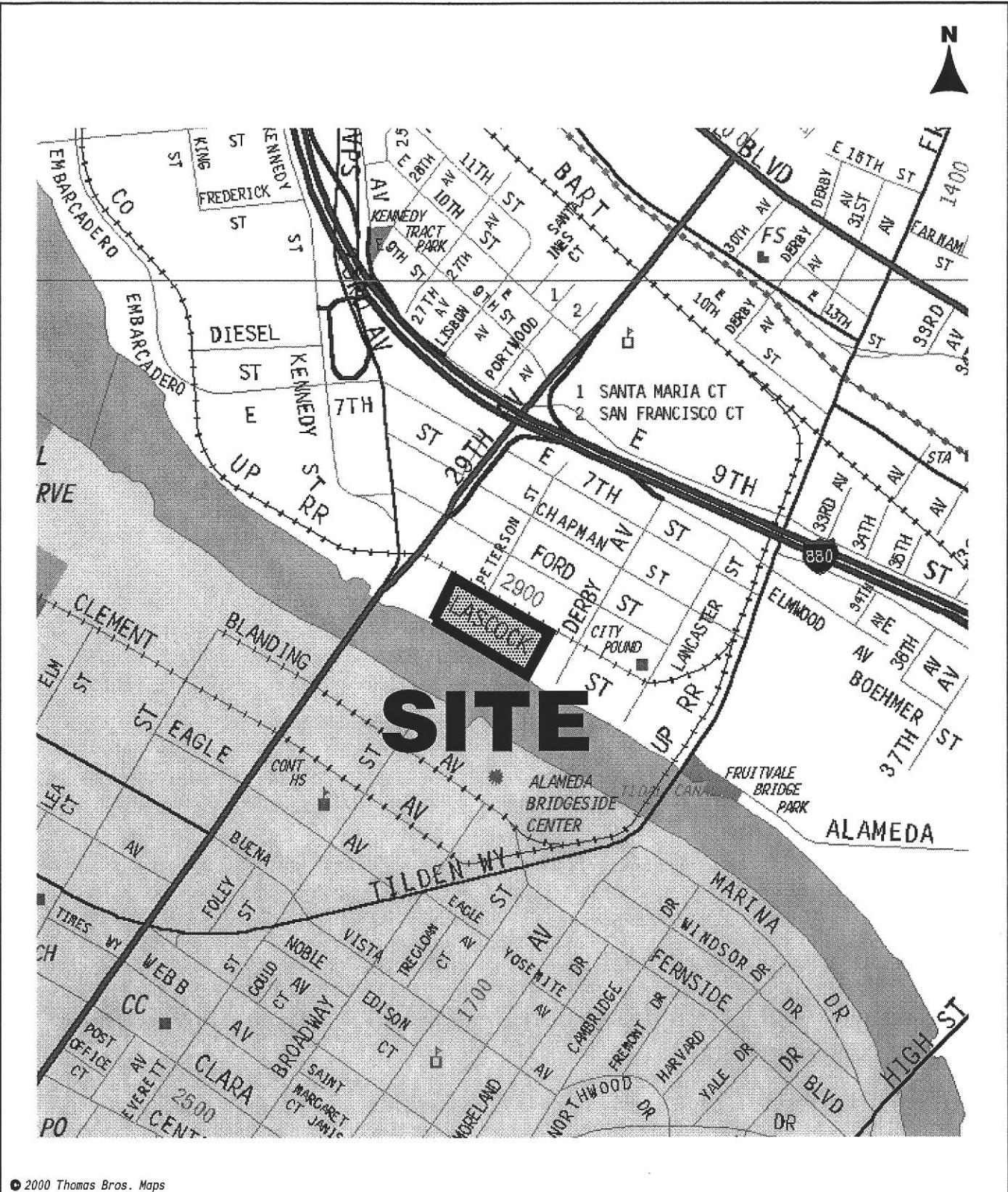
Attn: Mr. Amir Gholami

Attachments: Figure 1. Vicinity Map

Figure 2. Shoreline Soil Sample Locations

Attachment A. Soil Sampling Protocol and Analytical Results

OK P: 1731-2G Derby shoreline sampling ltr 010904

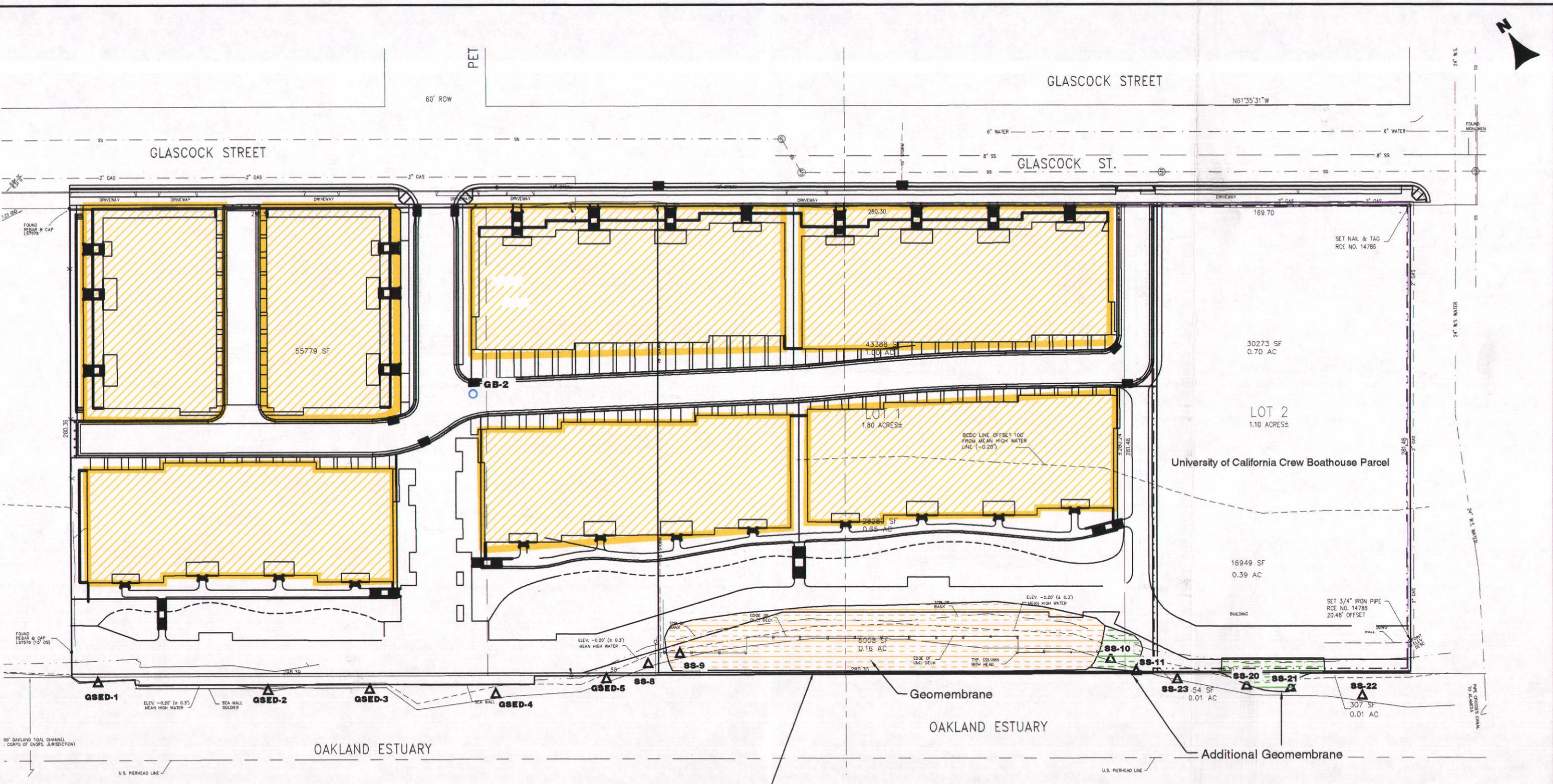


VICINITY MAP

303/315 DERBY AVENUE, 2901 AND 2909 GLASCOCK STREET
Oakland, California

LOVNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 1
1731-2B



LEGEND

△ - Approximate Location of Shoreline Sediment Sample

0 60
Scale feet

SHORELINE SAMPLE LOCATIONS

303/315 DERBY, 2901 AND 2909 GLASCOCK STREET
Oakland, California

LOVNEY ASSOCIATES
Environmental/Geotechnical/Engineering Services

FIGURE 2

ATTACHMENT A
SOIL SAMPLING PROTOCOL AND ANALYTICAL RESULTS

Soil Sampling: Soil samples for laboratory analysis were collected in brass liners. The ends of the liners were covered in aluminum foil or Teflon film, fitted with plastic end caps, taped, and labeled with a unique identification number. The samples were then placed in an ice-chilled cooler, and transported to a state-certified analytical laboratory with chain of custody documentation.

Equipment Decontamination: All sampling equipment was cleaned in a solution of laboratory grade detergent and distilled water before use at each sampling point.

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street
Oakland, Ca 94607
Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
Derby

Received: 11/05/2003 14:10

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SS-10	11/03/2003	Soil	3
TP4-1	11/03/2003	Soil	5
TP4-3	11/03/2003	Soil	7
DSV-90	11/04/2003	Soil	8
DSV-91	11/04/2003	Soil	9
DSV-92	11/04/2003	Soil	10
DSV-93	11/04/2003	Soil	11

Gas/BTEX Compounds (High Level)

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Oakland, Ca 94607

Phone: (510) 267-1970 Fax: (510) 267-1972

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Prep(s):	5030	Test(s):	8015M
	5030		8021B
Sample ID:	SS-10	Lab ID:	2003-11-0138 - 3
Sampled:	11/03/2003	Extracted:	11/6/2003 11:23
Matrix:	Soil	QC Batch#:	2003/11/06-05.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	550	50	mg/Kg	5.00	11/07/2003 11:23	g
Benzene	ND	3.1	mg/Kg	5.00	11/07/2003 11:23	
Toluene	ND	3.1	mg/Kg	5.00	11/07/2003 11:23	
Ethyl benzene	ND	3.1	mg/Kg	5.00	11/07/2003 11:23	
Xylene(s)	ND	3.1	mg/Kg	5.00	11/07/2003 11:23	
MTBE	ND	3.1	mg/Kg	5.00	11/07/2003 11:23	
<i>Surrogate(s)</i>						
Trifluorotoluene	NA	53-125	%	1.00	11/07/2003 11:23	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	11/07/2003 11:23	sd

Gas/BTEX Compounds (High Level)

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Received: 11/05/2003 14:10

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	TP4-1	Lab ID:	2003-11-0138 - 5
Sampled:	11/03/2003	Extracted:	11/6/2003 11:55
Matrix:	Soil	QC Batch#:	2003/11/06-05.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	37	10	mg/Kg	1.00	11/07/2003 11:55	g
Benzene	ND	0.62	mg/Kg	1.00	11/07/2003 11:55	
Toluene	ND	0.62	mg/Kg	1.00	11/07/2003 11:55	
Ethyl benzene	ND	0.62	mg/Kg	1.00	11/07/2003 11:55	
Xylene(s)	ND	0.62	mg/Kg	1.00	11/07/2003 11:55	
MTBE	ND	0.62	mg/Kg	1.00	11/07/2003 11:55	
Surrogate(s)						
Trifluorotoluene	87.0	53-125	%	1.00	11/07/2003 11:55	
4-Bromofluorobenzene-FID	270.0	58-124	%	1.00	11/07/2003 11:55	sh

Gas/BTEX Compounds (High Level)

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Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	TP4-3	Lab ID:	2003-11-0138 - 7
Sampled:	11/03/2003	Extracted:	11/6/2003 12:27
Matrix:	Soil	QC Batch#:	2003/11/06-05.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	240	10	mg/Kg	1.00	11/07/2003 12:27	
Benzene	ND	0.62	mg/Kg	1.00	11/07/2003 12:27	
Toluene	ND	0.62	mg/Kg	1.00	11/07/2003 12:27	
Ethyl benzene	ND	0.62	mg/Kg	1.00	11/07/2003 12:27	
Xylene(s)	ND	0.62	mg/Kg	1.00	11/07/2003 12:27	
MTBE	ND	0.62	mg/Kg	1.00	11/07/2003 12:27	
<i>Surrogate(s)</i>						
Trifluorotoluene	95.0	53-125	%	1.00	11/07/2003 12:27	
4-Bromofluorobenzene-FID	1098.0	58-124	%	1.00	11/07/2003 12:27	sh

Gas/BTEX Compounds (High Level)

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Received: 11/05/2003 14:10

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	DSV-90	Lab ID:	2003-11-0138 - 8
Sampled:	11/04/2003	Extracted:	11/6/2003 12:59
Matrix:	Soil	QC Batch#:	2003/11/06-05.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1200	50	mg/Kg	5.00	11/07/2003 12:59	g
Benzene	9.3	3.1	mg/Kg	5.00	11/07/2003 12:59	
Toluene	ND	3.1	mg/Kg	5.00	11/07/2003 12:59	
Ethyl benzene	8.2	3.1	mg/Kg	5.00	11/07/2003 12:59	
Xylene(s)	11	3.1	mg/Kg	5.00	11/07/2003 12:59	
MTBE	ND	3.1	mg/Kg	5.00	11/07/2003 12:59	
Surrogate(s)						
Trifluorotoluene	NA	53-125	%	1.00	11/07/2003 12:59	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	11/07/2003 12:59	sd

Gas/BTEX Compounds (High Level)

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Received: 11/05/2003 14:10

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	DSV-91	Lab ID:	2003-11-0138 - 9
Sampled:	11/04/2003	Extracted:	11/6/2003 13:31
Matrix:	Soil	QC Batch#:	2003/11/06-05.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	960	50	mg/Kg	5.00	11/07/2003 13:31	
Benzene	ND	3.1	mg/Kg	5.00	11/07/2003 13:31	
Toluene	ND	3.1	mg/Kg	5.00	11/07/2003 13:31	
Ethyl benzene	ND	3.1	mg/Kg	5.00	11/07/2003 13:31	
Xylene(s)	ND	3.1	mg/Kg	5.00	11/07/2003 13:31	
MTBE	ND	3.1	mg/Kg	5.00	11/07/2003 13:31	
<i>Surrogate(s)</i>						
Trifluorotoluene	NA	53-125	%	1.00	11/07/2003 13:31	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	11/07/2003 13:31	sd

Gas/BTEX Compounds (High Level)

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Received: 11/05/2003 14:10

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	DSV-92	Lab ID:	2003-11-0138 - 10
Sampled:	11/04/2003	Extracted:	11/6/2003 14:03
Matrix:	Soil	QC Batch#:	2003/11/06-05.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	940	50	mg/Kg	5.00	11/07/2003 14:03	g
Benzene	6.2	3.1	mg/Kg	5.00	11/07/2003 14:03	
Toluene	ND	3.1	mg/Kg	5.00	11/07/2003 14:03	
Ethyl benzene	ND	3.1	mg/Kg	5.00	11/07/2003 14:03	
Xylene(s)	ND	3.1	mg/Kg	5.00	11/07/2003 14:03	
MTBE	ND	3.1	mg/Kg	5.00	11/07/2003 14:03	
Surrogate(s)						
Trifluorotoluene	NA	53-125	%	1.00	11/07/2003 14:03	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	11/07/2003 14:03	sd

Gas/BTEX Compounds (High Level)

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Prep(s):	5030	Test(s):	8015M
	5030		8021B
Sample ID:	DSV-93	Lab ID:	2003-11-0138 - 11
Sampled:	11/04/2003	Extracted:	11/6/2003 14:35
Matrix:	Soil	QC Batch#:	2003/11/06-05.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	720	50	mg/Kg	5.00	11/07/2003 14:35	
Benzene	ND	3.1	mg/Kg	5.00	11/07/2003 14:35	
Toluene	ND	3.1	mg/Kg	5.00	11/07/2003 14:35	
Ethyl benzene	ND	3.1	mg/Kg	5.00	11/07/2003 14:35	
Xylene(s)	ND	3.1	mg/Kg	5.00	11/07/2003 14:35	
MTBE	ND	3.1	mg/Kg	5.00	11/07/2003 14:35	
Surrogate(s)						
Trifluorotoluene	NA	53-125	%	1.00	11/07/2003 14:35	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	11/07/2003 14:35	sd

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street
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Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
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Received: 11/05/2003 14:10

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Method Blank**Soil****QC Batch # 2003/11/06-05.04**

MB: 2003/11/06-05.04-005

Date Extracted: 11/06/2003 10:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	10	mg/Kg	11/07/2003 10:14	
Benzene	ND	0.62	mg/Kg	11/07/2003 10:14	
Toluene	ND	0.62	mg/Kg	11/07/2003 10:14	
Ethyl benzene	ND	0.62	mg/Kg	11/07/2003 10:14	
Xylene(s)	ND	0.62	mg/Kg	11/07/2003 10:14	
MTBE	ND	0.62	mg/Kg	11/07/2003 10:14	
Surrogates(s)					
Trifluorotoluene	97.2	53-125	%	11/07/2003 10:14	
4-Bromofluorobenzene-FID	97.2	58-124	%	11/07/2003 10:14	

SEVERN
TRENT

STL

Submission #: 2003-11-0138

Gas/BTEX Compounds (High Level)

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street

Oakland, Ca 94607

Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
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Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2003/11/06-05.04

LCS 2003/11/06-05.04-001

Extracted: 11/06/2003

Analyzed: 11/06/2003 18:40

LCSD 2003/11/06-05.04-002

Extracted: 11/06/2003

Analyzed: 11/06/2003 19:11

Compound	Conc.		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Gasoline	0.608	0.623	0.625	97.3	99.7	2.4	75-125	35		
<i>Surrogates(s)</i> 4-Bromofluorobenzene-FID	84.9	85.7	100	84.9	85.7		58-124	0		

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

11/10/2003 16:08

A part of Severn Trent Plc

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

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Gas/BTEX Compounds (High Level)

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Attn.: Peter Langtry

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Oakland, Ca 94607
Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
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Received: 11/05/2003 14:10

Batch QC Report

Prep(s): 5030

Test(s): 8021B

Laboratory Control Spike**Soil****QC Batch # 2003/11/06-05.04**

LCS 2003/11/06-05.04-003
LCSD 2003/11/06-05.04-004

Extracted: 11/06/2003
Extracted: 11/06/2003

Analyzed: 11/07/2003 09:40
Analyzed: 11/07/2003 10:11

Compound	Conc.		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	0.116	0.122	0.125	92.8	97.6	5.0	77-123	35		
Toluene	0.116	0.124	0.125	92.8	99.2	6.7	78-122	35		
Ethyl benzene	0.121	0.129	0.125	96.8	103.2	6.4	70-130	35		
Xylene(s)	0.368	0.395	0.375	98.1	105.3	7.1	75-125	35		
Surrogates(s)										
Trifluorotoluene	479	525	500	95.8	105.0		53-125	0		

Gas/BTEX Compounds (High Level)

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Oakland, Ca 94607

Phone: (510) 267-1970 Fax: (510) 267-1972

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Legend and Notes

Result Flag

g

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

sd

Surrogate recovery not reportable due to required dilution.

sh

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

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

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Project: 1731-2G

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Derby

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SS-8	11/03/2003	Soil	1
SS-9	11/03/2003	Soil	2
SS-11	11/03/2003	Soil	4
TP4-2	11/03/2003	Soil	6

Gas/BTEX Compounds by 8015M/8021

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Received: 11/05/2003 14:10

Prep(s):	5035 5035	Test(s):	8015M 8021B
Sample ID:	SS-8	Lab ID:	2003-11-0138 - 1
Sampled:	11/03/2003	Extracted:	11/7/2003 10:46
Matrix:	Soil	QC Batch#:	2003/11/07-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	11/07/2003 10:46	
Benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 10:46	
Toluene	ND	0.0050	mg/Kg	1.00	11/07/2003 10:46	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 10:46	
Xylene(s)	ND	0.0050	mg/Kg	1.00	11/07/2003 10:46	
MTBE	ND	0.0050	mg/Kg	1.00	11/07/2003 10:46	
Surrogate(s)						
Trifluorotoluene	69.3	53	%	1.00	11/07/2003 10:46	
4-Bromofluorobenzene-FID	60.0	58	%	1.00	11/07/2003 10:46	

Gas/BTEX Compounds by 8015M/8021

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Received: 11/05/2003 14:10

Derby

Prep(s):	5035 5035	Test(s):	8015M 8021B
Sample ID:	SS-9	Lab ID:	2003-11-0138 - 2
Sampled:	11/03/2003	Extracted:	11/7/2003 11:18
Matrix:	Soil	QC Batch#:	2003/11/07-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	11/07/2003 11:18	
Benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 11:18	
Toluene	ND	0.0050	mg/Kg	1.00	11/07/2003 11:18	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 11:18	
Xylene(s)	ND	0.0050	mg/Kg	1.00	11/07/2003 11:18	
MTBE	ND	0.0050	mg/Kg	1.00	11/07/2003 11:18	
<i>Surrogate(s)</i>						
Trifluorotoluene	71.4	53	%	1.00	11/07/2003 11:18	
4-Bromofluorobenzene-FID	70.0	58	%	1.00	11/07/2003 11:18	

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street
Oakland, Ca 94607
Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
Derby

Received: 11/05/2003 14:10

Prep(s):	5035 5035	Test(s):	8015M 8021B
Sample ID:	SS-11	Lab ID:	2003-11-0138 - 4
Sampled:	11/03/2003	Extracted:	11/7/2003 14:40
Matrix:	Soil	QC Batch#:	2003/11/07-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	11/07/2003 14:40	
Benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 14:40	
Toluene	ND	0.0050	mg/Kg	1.00	11/07/2003 14:40	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 14:40	
Xylene(s)	ND	0.0050	mg/Kg	1.00	11/07/2003 14:40	
MTBE	ND	0.0050	mg/Kg	1.00	11/07/2003 14:40	
<i>Surrogate(s)</i>						
Trifluorotoluene	66.7	53-125	%	1.00	11/07/2003 14:40	
4-Bromofluorobenzene-FID	63.1	58-124	%	1.00	11/07/2003 14:40	

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G
Derby

Received: 11/05/2003 14:10

Prep(s):	5035 5035	Test(s):	8015M 8021B
Sample ID:	TP4-2	Lab ID:	2003-11-0138 - 6
Sampled:	11/03/2003	Extracted:	11/7/2003 12:22
Matrix:	Soil	QC Batch#:	2003/11/07-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1.0	1.0	mg/Kg	1.00	11/07/2003 12:22	
Benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 12:22	
Toluene	ND	0.0050	mg/Kg	1.00	11/07/2003 12:22	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 12:22	
Xylene(s)	ND	0.0050	mg/Kg	1.00	11/07/2003 12:22	
MTBE	ND	0.0050	mg/Kg	1.00	11/07/2003 12:22	
<i>Surrogate(s)</i>						
Trifluorotoluene	89.5	53-125	%	1.00	11/07/2003 12:22	
4-Bromofluorobenzene-FID	90.6	58-124	%	1.00	11/07/2003 12:22	

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G

Received: 11/05/2003 14:10

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Batch QC Report

Prep(s): 5035

Test(s): 8015M

Method Blank**Soil****QC Batch # 2003/11/07-01.01**

MB: 2003/11/07-01.01-003

Date Extracted: 11/07/2003 07:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	11/07/2003 07:02	
Benzene	ND	0.0050	mg/Kg	11/07/2003 07:02	
Toluene	ND	0.0050	mg/Kg	11/07/2003 07:02	
Ethyl benzene	ND	0.0050	mg/Kg	11/07/2003 07:02	
Xylene(s)	ND	0.0050	mg/Kg	11/07/2003 07:02	
MTBE	ND	0.0050	mg/Kg	11/07/2003 07:02	
Surrogates(s)					
Trifluorotoluene	97.8	53-125	%	11/07/2003 07:02	
4-Bromofluorobenzene-FID	101.2	58-124	%	11/07/2003 07:02	

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G
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Received: 11/05/2003 14:10

Batch QC Report

Prep(s): 5035

Test(s): 8021B

Laboratory Control Spike**Soil****QC Batch # 2003/11/07-01.01**

LCS 2003/11/07-01.01-004

Extracted: 11/07/2003

Analyzed: 11/07/2003 07:34

LCSD 2003/11/07-01.01-005

Extracted: 11/07/2003

Analyzed: 11/07/2003 08:06

Compound	Conc.		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	0.0967	0.0984	0.1000	96.7	98.4	1.7	77-123	35		
Toluene	0.0945	0.0964	0.1000	94.5	96.4	2.0	78-122	35		
Ethyl benzene	0.0935	0.0946	0.1000	93.5	94.6	1.2	70-130	35		
Xylene(s)	0.280	0.288	0.300	93.3	96.0	2.9	75-125	35		
<i>Surrogates(s)</i>										
Trifluorotoluene	472	488	500	94.4	97.6		53-125			

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G
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Received: 11/05/2003 14:10

Batch QC Report

Prep(s): 5035

Test(s): 8015M

Laboratory Control Spike**Soil****QC Batch # 2003/11/07-01.01**

LCS 2003/11/07-01.01-006
LCSD 2003/11/07-01.01-007

Extracted: 11/07/2003
Extracted: 11/07/2003

Analyzed: 11/07/2003 09:10
Analyzed: 11/07/2003 09:42

Compound	Conc.		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Gasoline	0.504	0.487	0.500	100.8	97.4	3.4	75-125	35		
<i>Surrogates(s)</i> 4-Bromofluorobenzene-FID	488	507	500	97.6	101.4		58-124			

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G

Received: 11/05/2003 14:10

Derby

Legend and Notes

Result Flag

g

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

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G
Derby

Received: 11/07/2003 09:10

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
GSED-1	11/06/2003	Soil	7
GSED-2	11/06/2003	Soil	8
GSED-3	11/06/2003	Soil	9
GSED-4	11/06/2003	Soil	10
GSED-5	11/06/2003	Soil	11

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G

Received: 11/07/2003 09:10

Derby

Prep(s):	5035 5035	Test(s):	8015M 8021B
Sample ID:	GSED-1	Lab ID:	2003-11-0195 - 7
Sampled:	11/06/2003	Extracted:	11/7/2003 18:54
Matrix:	Soil	QC Batch#:	2003/11/07-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	11/07/2003 18:54	
Benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 18:54	
Toluene	ND	0.0050	mg/Kg	1.00	11/07/2003 18:54	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 18:54	
Xylene(s)	ND	0.0050	mg/Kg	1.00	11/07/2003 18:54	
MTBE	ND	0.0050	mg/Kg	1.00	11/07/2003 18:54	
Surrogate(s)						
Trifluorotoluene	78.7	53	%	1.00	11/07/2003 18:54	
4-Bromofluorobenzene-FID	74.4	58	%	1.00	11/07/2003 18:54	

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G
Derby

Received: 11/07/2003 09:10

Prep(s):	5035 5035	Test(s):	8015M 8021B
Sample ID:	GSED-2	Lab ID:	2003-11-0195 - 8
Sampled:	11/06/2003	Extracted:	11/10/2003 20:18 11/11/2003 11:58
Matrix:	Soil	QC Batch#:	2003/11/10-01.01 2003/11/11-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	11/11/2003 11:58	
Benzene	ND	0.0050	mg/Kg	1.00	11/10/2003 20:18	
Toluene	ND	0.0050	mg/Kg	1.00	11/10/2003 20:18	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/10/2003 20:18	
Xylene(s)	ND	0.0050	mg/Kg	1.00	11/10/2003 20:18	
MTBE	ND	0.0050	mg/Kg	1.00	11/10/2003 20:18	
Surrogate(s)						
Trifluorotoluene	58.2	53	%	1.00	11/10/2003 20:18	
4-Bromofluorobenzene-FID	64.3	58	%	1.00	11/11/2003 11:58	

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G

Received: 11/07/2003 09:10

Derby

Prep(s): 5035
5035Test(s): 8015M
8021B

Sample ID: GSED-3

Lab ID: 2003-11-0195 - 9

Sampled: 11/06/2003

Extracted: 11/7/2003 17:50

Matrix: Soil

QC Batch#: 2003/11/07-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	11/07/2003 17:50	
Benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 17:50	
Toluene	ND	0.0050	mg/Kg	1.00	11/07/2003 17:50	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 17:50	
Xylene(s)	ND	0.0050	mg/Kg	1.00	11/07/2003 17:50	
MTBE	ND	0.0050	mg/Kg	1.00	11/07/2003 17:50	
<i>Surrogate(s)</i>						
Trifluorotoluene	81.9	53	%	1.00	11/07/2003 17:50	
4-Bromofluorobenzene-FID	80.2	58	%	1.00	11/07/2003 17:50	

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G
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Received: 11/07/2003 09:10

Prep(s):	5035 5035	Test(s):	8015M 8021B
Sample ID:	GSED-4	Lab ID:	2003-11-0195 - 10
Sampled:	11/06/2003	Extracted:	11/7/2003 18:22
Matrix:	Soil	QC Batch#:	2003/11/07-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	11/07/2003 18:22	
Benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 18:22	
Toluene	ND	0.0050	mg/Kg	1.00	11/07/2003 18:22	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 18:22	
Xylene(s)	ND	0.0050	mg/Kg	1.00	11/07/2003 18:22	
MTBE	ND	0.0050	mg/Kg	1.00	11/07/2003 18:22	
<i>Surrogate(s)</i>						
Trifluorotoluene	75.3	53	%	1.00	11/07/2003 18:22	
4-Bromofluorobenzene-FID	76.4	58	%	1.00	11/07/2003 18:22	

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G
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Received: 11/07/2003 09:10

Prep(s):	5035 5035	Test(s):	8015M 8021B
Sample ID:	GSED-5	Lab ID:	2003-11-0195 - 11
Sampled:	11/06/2003	Extracted:	11/7/2003 17:18
Matrix:	Soil	QC Batch#:	2003/11/07-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	11/07/2003 17:18	
Benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 17:18	
Toluene	ND	0.0050	mg/Kg	1.00	11/07/2003 17:18	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/07/2003 17:18	
Xylene(s)	ND	0.0050	mg/Kg	1.00	11/07/2003 17:18	
MTBE	ND	0.0050	mg/Kg	1.00	11/07/2003 17:18	
<i>Surrogate(s)</i>						
Trifluorotoluene	87.0	53	%	1.00	11/07/2003 17:18	
4-Bromofluorobenzene-FID	85.0	58	%	1.00	11/07/2003 17:18	

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G
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Received: 11/07/2003 09:10

Batch QC Report

Prep(s): 5035

Test(s): 8015M

Method Blank**Soil****QC Batch # 2003/11/07-01.01**

MB: 2003/11/07-01.01-003

Date Extracted: 11/07/2003 07:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	11/07/2003 07:02	
Benzene	ND	0.0050	mg/Kg	11/07/2003 07:02	
Toluene	ND	0.0050	mg/Kg	11/07/2003 07:02	
Ethyl benzene	ND	0.0050	mg/Kg	11/07/2003 07:02	
Xylene(s)	ND	0.0050	mg/Kg	11/07/2003 07:02	
MTBE	ND	0.0050	mg/Kg	11/07/2003 07:02	
Surrogates(s)					
Trifluorotoluene	97.8	53-125	%	11/07/2003 07:02	
4-Bromofluorobenzene-FID	101.2	58-124	%	11/07/2003 07:02	

Gas/BTEX Compounds by 8015M/8021

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Received: 11/07/2003 09:10

Batch QC Report

Prep(s): 5035

Test(s): 8015M

Method Blank

Soil

QC Batch # 2003/11/10-01.01

MB: 2003/11/10-01.01-003

Date Extracted: 11/10/2003 06:43

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	11/10/2003 06:43	
Benzene	ND	0.0050	mg/Kg	11/10/2003 06:43	
Toluene	ND	0.0050	mg/Kg	11/10/2003 06:43	
Ethyl benzene	ND	0.0050	mg/Kg	11/10/2003 06:43	
Xylene(s)	ND	0.0050	mg/Kg	11/10/2003 06:43	
MTBE	ND	0.0050	mg/Kg	11/10/2003 06:43	
Surrogates(s)					
Trifluorotoluene	90.2	53-125	%	11/10/2003 06:43	
4-Bromofluorobenzene-FID	97.6	58-124	%	11/10/2003 06:43	

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G
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Received: 11/07/2003 09:10

Batch QC Report

Prep(s): 5035

Test(s): 8015M

Method Blank**Soil****QC Batch # 2003/11/11-01.01**

MB: 2003/11/11-01.01-003

Date Extracted: 11/11/2003 06:51

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	11/11/2003 06:51	
Benzene	ND	0.0050	mg/Kg	11/11/2003 06:51	
Toluene	ND	0.0050	mg/Kg	11/11/2003 06:51	
Ethyl benzene	ND	0.0050	mg/Kg	11/11/2003 06:51	
Xylene(s)	ND	0.0050	mg/Kg	11/11/2003 06:51	
MTBE	ND	0.0050	mg/Kg	11/11/2003 06:51	
Surrogates(s)					
Trifluorotoluene	97.7	53-125	%	11/11/2003 06:51	
4-Bromofluorobenzene-FID	92.5	58-124	%	11/11/2003 06:51	

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G
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Received: 11/07/2003 09:10

Batch QC Report

Prep(s): 5035

Test(s): 8021B

Laboratory Control Spike**Soil****QC Batch # 2003/11/07-01.01**

LCS 2003/11/07-01.01-004

Extracted: 11/07/2003

Analyzed: 11/07/2003 07:34

LCSD 2003/11/07-01.01-005

Extracted: 11/07/2003

Analyzed: 11/07/2003 08:06

Compound	Conc.		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %	Flags	
	LCS	LCSD		LCS	LCSD			Rec.	RPD
Benzene	0.0967	0.0984	0.1000	96.7	98.4	1.7	77-123	35	
Toluene	0.0945	0.0964	0.1000	94.5	96.4	2.0	78-122	35	
Ethyl benzene	0.0935	0.0946	0.1000	93.5	94.6	1.2	70-130	35	
Xylene(s)	0.280	0.288	0.300	93.3	96.0	2.9	75-125	35	
Surrogates(s)									
Trifluorotoluene	472	488	500	94.4	97.6		53-125		

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G
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Received: 11/07/2003 09:10

Batch QC Report

Prep(s): 5035

Test(s): 8015M

Laboratory Control Spike**Soil****QC Batch # 2003/11/07-01.01**

LCS	2003/11/07-01.01-006	Extracted: 11/07/2003	Analyzed: 11/07/2003 09:10
LCSD	2003/11/07-01.01-007	Extracted: 11/07/2003	Analyzed: 11/07/2003 09:42

Compound	Conc.	mg/Kg	Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Gasoline	0.504	0.487	0.500	100.8	97.4	3.4	75-125	35		
<i>Surrogates(s)</i> 4-Bromofluorobenzene-FID	488	507	500	97.6	101.4		58-124			

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G
Derby

Received: 11/07/2003 09:10

Batch QC Report

Prep(s): 5035

Test(s): 8015M

Laboratory Control Spike**Soil****QC Batch # 2003/11/10-01.01**LCS 2003/11/10-01.01-004
LCSD 2003/11/10-01.01-005Extracted: 11/10/2003
Extracted: 11/10/2003Analyzed: 11/10/2003 07:14
Analyzed: 11/10/2003 07:46

Compound	Conc.		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Gasoline	0.505	0.465	0.500	101.0	93.0	8.2	75-125	35		
Surrogates(s) 4-Bromofluorobenzene-FID	474	449	500	94.8	89.8		58-124			

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G
Derby

Received: 11/07/2003 09:10

Batch QC Report

Prep(s): 5035

Test(s): 8021B

Laboratory Control Spike**Soil****QC Batch # 2003/11/10-01.01**

LCS 2003/11/10-01.01-006
LCSD 2003/11/10-01.01-007

Extracted: 11/10/2003
Extracted: 11/10/2003

Analyzed: 11/10/2003 08:18
Analyzed: 11/10/2003 08:50

Compound	Conc.	mg/Kg	Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	0.0889	0.0982	0.1000	88.9	98.2	9.9	77-123	35		
Toluene	0.0885	0.0956	0.1000	88.5	95.6	7.7	78-122	35		
Ethyl benzene	0.0865	0.0919	0.1000	86.5	91.9	6.1	70-130	35		
Xylene(s)	0.264	0.275	0.300	88.0	91.7	4.1	75-125	35		
<i>Surrogates(s)</i>										
Trifluorotoluene	464	479	500	92.8	95.8		53-125			

Gas/BTEX Compounds by 8015M/8021

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Project: 1731-2G
Derby

Received: 11/07/2003 09:10

Batch QC Report

Prep(s): 5035

Test(s): 8021B

Laboratory Control Spike**Soil****QC Batch # 2003/11/11-01.01**

LCS 2003/11/11-01-004

Extracted: 11/11/2003

Analyzed: 11/11/2003 07:23

LCSD 2003/11/11-01-005

Extracted: 11/11/2003

Analyzed: 11/11/2003 07:54

Compound	Conc.		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	0.0912	0.0933	0.1000	91.2	93.3	2.3	77-123	35		
Toluene	0.0902	0.0933	0.1000	90.2	93.3	3.4	78-122	35		
Ethyl benzene	0.0883	0.0908	0.1000	88.3	90.8	2.8	70-130	35		
Xylene(s)	0.269	0.277	0.300	89.7	92.3	2.9	75-125	35		
<i>Surrogates(s)</i>										
Trifluorotoluene	460	433	500	92.0	86.6		53-125			

Gas/BTEX Compounds by 8015M/8021

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street
Oakland, Ca 94607
Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
Derby

Received: 11/07/2003 09:10

Batch QC Report

Prep(s): 5035

Test(s): 8015M

Laboratory Control Spike**Soil****QC Batch # 2003/11/11-01.01**

LCS 2003/11/11-01.01-009
LCSD 2003/11/11-01.01-010

Extracted: 11/11/2003
Extracted: 11/11/2003

Analyzed: 11/11/2003 10:54
Analyzed: 11/11/2003 11:26

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Gasoline	0.453	0.467	0.500	90.6	93.4	3.0	75-125	35		
<i>Surrogates(s)</i> 4-Bromofluorobenzene-FID	373	445	500	74.6	89.0		58-124			

CHAIN OF CUSTODY RECORD

Project Name: <i>Derby</i>		405 Clyde Ave. Mountain View 94043 Tel: 650.967.2365 Fax: 650.967.2785		Oakland Office 167 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							
Job No.: <i>1731-2A</i>	Turnaround Requirements		ANALYSES REQUESTED												
Report To: <i>Peter Langley</i>	<input type="checkbox"/> 5 Working Days														
Sampler (print): <i>Charles Mettler</i>	<input type="checkbox"/> 48 Hours														
Sampler (signature): <i>Charles Mettler</i>	<input type="checkbox"/> 24 Hours														
Electronic Deliverable Format Required: <input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> 2-3 Hours RUSH														
EDF LOGCODE: <input type="checkbox"/> LAMV <input type="checkbox"/> LAO <input type="checkbox"/> LAF	<input checked="" type="checkbox"/> see remarks														
Global ID # :	QC Requirement: <input checked="" type="checkbox"/> Level A (standard)														
Sample I.D. (Field Point Name)	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas <input checked="" type="checkbox"/> BTEX/MTBE Method: <input checked="" type="checkbox"/> 8015/8021 <input type="checkbox"/> 8260	TPH as diesel (8015M) <input checked="" type="checkbox"/> add silica gel column <input type="checkbox"/> add Oil Range	TRPH (418.1) with silica gel column <input checked="" type="checkbox"/> add BTEX	Halogenated VOCs (former 8010 list) Method: <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> add BTEX	Organochlorine Pesticides (8081)	Metals: <input type="checkbox"/> As, Pb, Hg <input checked="" type="checkbox"/> 817 CAM Please filter water samples before preserve	Fuel Oxygenates (MTBE, ETBE, TAME, DiPE, TBA, 1,2-DCA, and EDB) by 8260	PAHs (8310)	PCBs (8082)	Remarks
DSV-94	11-5-03			S0-L	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>244</i>	
DSV-95						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>244</i>	
DSV-96						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>244</i>	
DSV-97	11-6-03					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>244</i>	
DSV-98						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>244</i>	
DSV-99						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>244</i>	
GSED-1						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>24?</i>	
GSED-2						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>3 days</i>	
GSED-3						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GSED-4						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
GSED-5						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Relinquished By: <i>Charles Mettler</i>	Date: 11-7-03 Time: 7:45		Received By:		Date:		Time:		PM Initial:						
Relinquished By:	Date: Time:		Received By:		Date:		Time:		Temp:						
Relinquished By:	Date: Time:		Lab of Record:		Date:		Time:								
			Received by Lab:		Date:		Time:								

Submission # 2003 - 11 - 0195

Lowney & Associates Oakland

December 19, 2003

167 Filbert Street
Oakland, Ca 94607

Attn.: Peter Langtry

Project#: 1731-2G
Project: Derby

Dear Peter,

Attached is our report for your samples received on 12/16/2003 14:30
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
01/30/2004 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@stl-inc.com

Sincerely,



Vincent Vancil
Project Manager

Fuel Oxygenates by 8260B

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street
Oakland, Ca 94607

Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
Derby

Received: 12/16/2003 14:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SS-23	12/15/2003 11:45	Soil	1
SS-22	12/15/2003	Soil	4

Fuel Oxygenates by 8260B

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street
Oakland, Ca 94607
Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
Derby

Received: 12/16/2003 14:30

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SS-23	Lab ID:	2003-12-0543 - 1
Sampled:	12/15/2003 11:45	Extracted:	12/18/2003 14:52
Matrix:	Soil	QC Batch#:	2003/12/18-01.69

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6000	4600	ug/Kg	4.59	12/18/2003 14:52	9
Methyl tert-butyl ether (MTBE)	ND	23	ug/Kg	4.59	12/18/2003 14:52	
Benzene	ND	23	ug/Kg	4.59	12/18/2003 14:52	
Toluene	ND	23	ug/Kg	4.59	12/18/2003 14:52	
Ethyl benzene	ND	23	ug/Kg	4.59	12/18/2003 14:52	
Total xylenes	ND	23	ug/Kg	4.59	12/18/2003 14:52	
Surrogate(s)						
1,2-Dichloroethane-d4	89.9	70-121	%	4.59	12/18/2003 14:52	
Toluene-d8	94.7	81-117	%	4.59	12/18/2003 14:52	

Fuel Oxygenates by 8260B

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street
Oakland, Ca 94607

Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
Derby

Received: 12/16/2003 14:30

Prep(s): 5030B

Test(s): 8260B

Sample ID: SS-22

Lab ID: 2003-12-0543 - 4

Sampled: 12/15/2003

Extracted: 12/19/2003 13:17

Matrix: Soil

QC Batch#: 2003/12/19-01.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2000	1000	ug/Kg	1.00	12/19/2003 13:17	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	12/19/2003 13:17	
Benzene	ND	5.0	ug/Kg	1.00	12/19/2003 13:17	
Toluene	64	5.0	ug/Kg	1.00	12/19/2003 13:17	
Ethyl benzene	ND	5.0	ug/Kg	1.00	12/19/2003 13:17	
Total xylenes	ND	5.0	ug/Kg	1.00	12/19/2003 13:17	
<i>Surrogate(s)</i>						
1,2-Dichloroethane-d4	86.3	70-121	%	1.00	12/19/2003 13:17	
Toluene-d8	109.6	81-117	%	1.00	12/19/2003 13:17	

Fuel Oxygenates by 8260B

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street
Oakland, Ca 94607
Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
Derby

Received: 12/16/2003 14:30

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2003/12/18-01.69

MB: 2003/12/18-01.69-038

Date Extracted: 12/18/2003 11:38

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	12/18/2003 11:38	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	12/18/2003 11:38	
Benzene	ND	5.0	ug/Kg	12/18/2003 11:38	
Toluene	ND	5.0	ug/Kg	12/18/2003 11:38	
Ethyl benzene	ND	5.0	ug/Kg	12/18/2003 11:38	
Total xylenes	ND	5.0	ug/Kg	12/18/2003 11:38	
Surrogates(s)					
1,2-Dichloroethane-d4	92.9	70-121	%	12/18/2003 11:38	
Toluene-d8	96.1	81-117	%	12/18/2003 11:38	

Fuel Oxygenates by 8260B

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street
Oakland, Ca 94607

Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
Derby

Received: 12/16/2003 14:30

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank**Soil****QC Batch # 2003/12/19-01.69**

MB: 2003/12/19-01.69-018

Date Extracted: 12/19/2003 10:18

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	12/19/2003 10:18	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	12/19/2003 10:18	
Benzene	ND	5.0	ug/Kg	12/19/2003 10:18	
Toluene	ND	5.0	ug/Kg	12/19/2003 10:18	
Ethyl benzene	ND	5.0	ug/Kg	12/19/2003 10:18	
Total xylenes	ND	5.0	ug/Kg	12/19/2003 10:18	
Surrogates(s)					
1,2-Dichloroethane-d4	87.3	70-121	%	12/19/2003 10:18	
Toluene-d8	89.5	81-117	%	12/19/2003 10:18	

Fuel Oxygenates by 8260B

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street
Oakland, Ca 94607
Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
Derby

Received: 12/16/2003 14:30

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike**Soil****QC Batch # 2003/12/18-01.69**

LCS 2003/12/18-01.69-000
LCSD 2003/12/18-01.69-019

Extracted: 12/18/2003
Extracted: 12/18/2003

Analyzed: 12/18/2003 11:00
Analyzed: 12/18/2003 11:19

Compound	Conc.	ug/Kg	Exp.Conc.	Recovery %		RPD	Crt.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	47.1	45.2	50.0	94.2	90.4	4.1	65-165	20		
Benzene	45.8	47.2	50.0	91.6	94.4	3.0	69-129	20		
Toluene	44.8	53.0	50.0	89.6	106.0	16.8	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	468	449	500	93.6	89.8		70-121			
Toluene-d8	451	512	500	90.2	102.4		81-117			

Fuel Oxygenates by 8260B

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street
Oakland, Ca 94607

Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
Derby

Received: 12/16/2003 14:30

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike**Soil****QC Batch # 2003/12/19-01.69**

LCS 2003/12/19-01.69-041

Extracted: 12/19/2003

Analyzed: 12/19/2003 09:41

LCSD 2003/12/19-01.69-059

Extracted: 12/19/2003

Analyzed: 12/19/2003 09:59

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %	Flags	
	LCS	LCSD		LCS	LCSD			LCS	LCSD
Methyl tert-butyl ether (MTBE)	47.2	39.6	50.0	94.4	79.2	17.5	65-165	20	
Benzene	41.1	44.0	50.0	82.2	88.0	6.8	69-129	20	
Toluene	47.2	48.9	50.0	94.4	97.8	3.5	70-130	20	
Surrogates(s)									
1,2-Dichloroethane-d4	448	428	500	89.6	85.6		70-121		
Toluene-d8	453	476	500	90.6	95.2		81-117		

Fuel Oxygenates by 8260B

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street
Oakland, Ca 94607
Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
Derby

Received: 12/16/2003 14:30

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

g

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

SEVERN
TRENT

STL

Submission #: 2003-12-0543

Gas/BTEX/Fuel Oxygenates by 8260B (High Level)

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street
Oakland, Ca 94607

Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
Derby

Received: 12/16/2003 14:30

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SS-20	12/15/2003	Soil	2
SS-21	12/15/2003 12:00	Soil	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

12/19/2003 16:49

Gas/BTEX/Fuel Oxygenates by 8260B (High Level)

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street
Oakland, Ca 94607
Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
Derby

Received: 12/16/2003 14:30

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SS-20	Lab ID:	2003-12-0543 - 2
Sampled:	12/15/2003	Extracted:	12/18/2003 16:00
Matrix:	Soil	QC Batch#:	2003/12/18-03.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2400000	1300000	ug/Kg	25.00	12/19/2003 03:09	g
Benzene	ND	13000	ug/Kg	25.00	12/19/2003 03:09	
Toluene	ND	13000	ug/Kg	25.00	12/19/2003 03:09	
Ethyl benzene	ND	13000	ug/Kg	25.00	12/19/2003 03:09	
Total xylenes	ND	13000	ug/Kg	25.00	12/19/2003 03:09	
Methyl tert-butyl ether (MTBE)	ND	13000	ug/Kg	25.00	12/19/2003 03:09	
Surrogate(s)						
1,2-Dichloroethane-d4	NA	70-121	%	25.00	12/19/2003 03:09	sd
Toluene-d8	NA	81-117	%	25.00	12/19/2003 03:09	sd

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street

Oakland, Ca 94607

Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G
Derby

Received: 12/16/2003 14:30

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Soil

QC Batch # 2003/12/18-03.69

LCS 2003/12/18-03.69-038
LCSD 2003/12/18-03.69-059

Extracted: 12/19/2003

Analyzed: 12/19/2003 00:38

Extracted: 12/19/2003

Analyzed: 12/19/2003 00:59

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	9230	9260	10000	92.3	92.6	0.3	69-129	20		
Toluene	10300	10000	10000	103.0	100.0	3.0	70-130	20		
Methyl tert-butyl ether (MTBE)	8280	7360	10000	82.8	73.6	11.8	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	235	231	250	94.0	92.4		70-121			
Toluene-d8	269	250	250	107.6	100.0		81-117			

12/19/2003 16:49

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Page 5 of 6

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Lowney & Associates Oakland

Attn.: Peter Langtry

167 Filbert Street

Oakland, Ca 94607

Phone: (510) 267-1970 Fax: (510) 267-1972

Project: 1731-2G

Derby

Received: 12/16/2003 14:30

Legend and Notes

Result Flag

g

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

sd

Surrogate recovery not reportable due to required dilution.

12/19/2003 16:49

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

LOWNEY ASSOCIATES
Environmental / Geotechnical / Engineering Services

CHAIN OF CUSTODY RECORD

Project Name: *Derby*
Job No.: *1731-ZG*

Report To: *Peter Langley*

Sampler (print): *Charles Mettler*
Sampler (signature): *Chas Mettler*

Electronic Deliverable Format Required: YES NO
EDF LOGCODE: LAMV LAO LAF

Global ID #:

Mountain View Office
405 Clyde Ave.
Mountain View 94043
Tel: 650.967.2365
Fax: 650.967.2785

Oakland Office
167 Filbert St.
Oakland 94607
Tel: 510.267.1970
Fax: 510.267.5555

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

2003-12-0543

81222

						Turnaround Requirements		ANALYSES REQUESTED			
<input type="checkbox"/> 5 Working Days <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 2-3 Hours RUSH <input checked="" type="checkbox"/> 3-Day											
QC Requirement: <input checked="" type="checkbox"/> Level A (standard)											
Sample I.D. (Field Point Name)	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	TPH as gas/BTEX/MTBE Method: 8015/8021	TPH as diesel (8015M) Method: 8020	Organochlorine Pesticides (8081) Method: 80201	Metals: Cu, Pb, Hg Please filter water samples before analyze	PCBs (8082)	Remarks
SS-23	12-15-03			Scal	I	✓	✓	Halogenated VOCs (Former 8010 list) Method: 80201	Fuel Oxygenates (MTBE, TAME, DiPE, TBA, 1,2-DCA, and EDB) by 8260		
SS-20						✓	✓		PAHs (8310)		
SS-21						✓	✓				
SS-22						✓	✓				
RUSH											
Relinquished By: <i>DBM</i>	Date: 12-16-03 Time: 19:10			Received By: <i>Derby</i>	Date: 12-16-03 Time: 19:10			PN Initial: <i>4-1</i>			
Relinquished By: <i>Derby</i>	Date: 12-16-03 Time: 14:30			Received By:	Date: Time:			Temp:			
Relinquished By: <i>Derby</i>	Date: Time:			Lab of Record:							
				Received by Lab: <i>Derby</i>			Date: 12-16-03 Time: 14:30				

STL San Francisco

Sample Receipt Checklist

Submission #: 2003- 12 - 0543Checklist completed by: (Initials) NK Date: 12, 16/03Courier name: STL San Francisco Client _____

Custody seals intact on shipping container/samples

Yes _____ No _____ Not Present

Chain of custody present?

Yes No _____

Chain of custody signed when relinquished and received?

Yes No _____

Chain of custody agrees with sample labels?

Yes _____ No

Samples in proper container/bottle?

Yes No _____

Sample containers intact?

Yes No _____

Sufficient sample volume for indicated test?

Yes No _____

All samples received within holding time?

Yes No _____Container/Temp Blank temperature in compliance ($4^{\circ}\text{ C} \pm 2$)?Temp: 41°C Yes No _____Ice Present Yes No _____

Water - VOA vials have zero headspace?

No VOA vials submitted Yes _____ No _____

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt? Yes No Buils pH adjusted- Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc - Lot #(s) _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: Rec'd two containers for SS-23 @ 12/15/03 @ 12:00
& SS-23 @ 12/15/03 @ 1145. Did not rec'd sample
SS-21.

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____ / _____ / 03

Client contacted: Yes NoSummary of discussion: SS21 at 12:00 SS23 11:45Corrective Action (per PM/Client):

CHAIN OF CUSTODY RECORD

Project Name:

Job No.: 1-5

1731-20

Report To: Peter Lamfor

Sampler (print): Charles Wetmore

Sampler (signature): Cliff Miller

Electronic Deliverable Format Required: YES NO

EDE LOGCODE: JANNY JAS JAM

EST 200000

Relinquished by

RESULTS

Relinquished By

Date: 12-16-03 Time: 19:15

Date: 12/16/23 Time: 11:00

Date: 2-16-53 Time: 4:30

Received By:

Received By:

Received By:

Dated 12/16/02 = 16/VII

Date: 2/10/03 Time: 10:10

Date: _____ Time: _____

PM Initial:

V. V. VENKAT.

4-1

Relinquished By

Date: _____ Time: _____

Lab of Record:

Received by La

Date: 12/16/03 Time: 4:03

DATE: 12-6-03 TIME: 1430