HALEY & ALDRICH

BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA

TECHNICAL MEMORANDUM

SOIL STOCKPILE PROFILING

LOT 8

To: **Mr. Brian Mossman**
Boeing Realty Corporation
4900 E. Conant Street, Building 1
Long Beach, California 90808

From: **Haley & Aldrich, Inc.**

Date: **9 September 2005**

Subject: **Excess Soil Stockpile Profiling, Lot 8, Boeing Realty Corporation, Former C-6 Facility, Los Angeles, California**

Haley & Aldrich, Inc. (Haley & Aldrich) has prepared this technical memorandum to profile excess soil for export from the Harbor Gateway Center to the Boeing Seal Beach Facility.

Approximately 3,000 cubic yards of soil was generated from Lot 8 at the Harbor Gateway Center during construction activities and stockpiled on-site. The soil was derived from the within the top 12 feet of Lot 8 which received closure from the Los Angeles Regional Water Quality Control Board in 2002 (LARWQCB, 2002). This soil is excess to the current Lot 8 construction requirements and cannot be incorporated into the grading plan.

Rather than disposing of the soil, Boeing Realty Corporation (BRC) plans to relocate the soil to the Boeing Seal Beach Facility for use on-site. To evaluate the suitability of the soil to be exported for use at the Seal Beach Facility, three soil samples were collected at random locations approximately 1 foot below the stockpile surface and analyzed by a California-certified laboratory for the following compounds:

Total petroleum hydrocarbons (TPH) by EPA Method 8015;
Volatile organic compounds (VOCs) by EPA Method 8260B;
Semi-volatile organic compounds (SVOCs) by EPA Method 8270C;
Polyaromatic hydrocarbons (PAHs) by EPA Method 8310;
Polychlorinated biphenyls (PCBs) by EPA Method 8082;
Metals by EPA Methods 6010B and 7471; and
Hexavalent chromium by EPA Method 7199.

The laboratory results indicate that VOCs, SVOCs, and PAHs were not detected above laboratory detection limits (Appendix A). Aroclor-1254 was detected at concentrations of 150 and 200 micrograms

per kilogram (µg/kg). The detected concentrations of Aroclor-1254 are below both the federal preliminary remediation goals (PRG) (USEPA, 2004) and California Human Health Screening Levels (CHHSLs) (Cal-EPA, 2005) for non-residential land use. The concentrations are also below the federal residential PRG (USEPA, 2004). Table I summarizes the reported Aroclor-1254 concentrations in the stockpile soil samples, and the applicable PRGs and CHHSLs.

Table I. Summary of Aroclor-1254 Concentrations

Sample Name	Aroclor-1254 Concentration
SPXX_090105_0101	200
SPXX_090105_0102	150
SPXX_090105_0103	ND
PRGs (Aroclor-1254)	
Residential	220
Non-residential	740
CHHSLs (PCBs)	
Residential	89
Non-residential	300

Concentrations reported in µg/kg
ND = Not detected

TPH was detected at concentrations of 16, 80, and 120 milligrams per kilogram (mg/kg) (Appendix A). Although no PRG exists for TPH, two of the three detected concentrations are below 100 mg/kg (common regulatory guidance threshold). Although one sample contained a TPH concentration of 120 mg/kg, no VOCs or SVOCs were detected which are the primary risk-triggering chemicals in TPH; therefore this TPH concentration is not anticipated to be a risk to human health.

Metals were also analyzed and are summarized in Table II. Since background metals concentrations were not available for the Seal Beach Facility, the detected metals concentrations were compared to the Southern California background soil concentrations of metals (Cal-EPA, 1992) and any concentrations that exceeded the maximum background concentration were bolded.

Table II. Summary of Metals Concentrations

Analyte	Sample Name SPXX_090105_0101	SPXX_090105_0102	SPXX_090105_0103	Southern California Background Concentration Minimum	Maximum	STLC (mg/L)
Aluminum	16,800	16,500	15,400	NA	NA	NA
Arsenic	6.8	6.3	11.8	1.8	15.2	5
Antimony	0.73B	0.61B	0.78B	0.12	1.9	15
Barium	131	118	108	23	560	NA
Chromium	27.3	26.2	32.6	5.8	32.6	5
Beryllium	0.68J	0.61J	0.65J	< 0.1	1.2	0.75
Lead	7.2	6.8	5.3	2.5	189.4	5
Selenium	1.8	1.4	1.5	NA	NA	1
Cobalt	10.7	9.2	8.7	1.6	23.2	80
Copper	23.4	21.3	25.4	3.8	54	25
Molybdenum	0.84B	0.83B	**2.0B**	0.15	1.4	350
Nickel	20.9	19.2	23.9	3.5	28.2	20
Vanadium	52.2	50.2	57.5	18	84.8	24
Zinc	59.2	58.7	57.4	10.3	247	250
Hexavalent chromium	0.20B	ND	0.23B	NA	NA	5
Mercury	0.039B	0.049	0.033B	0.1	0.6	0.2

Concentrations reported in mg/kg (except STLC)
STLC = soluble threshold limit concentration
mg/L = milligram per liter
ND = Not Detected
NA = Not Applicable

Although the molybdenum concentration exceeds the maximum literature review background value for Southern California in one sample, the detected value is less than the Lot 8 background concentration of 2.7 mg/kg (Haley & Aldrich, 2002) which indicates that it is likely not anthropogenic or a result of former site activities. The detected metals concentrations were also compared to the California Hazardous Waste Criteria. The laboratory results were less than ten times the soluble threshold limit concentration (STLC), a criterion for defining a waste as non-hazardous in California as summarized in Table II above.

Currently no import soil criteria for the Seal Beach Facility has been provided; however, the following import criteria was adopted by Boeing: accept soils with concentrations of organic chemicals less than the residential PRGs, TPH less than 100 mg/kg in two of the three samples, and metals less than the site-specific background concentrations where available or regional background levels. Based on the laboratory analysis of the samples collected from the Lot 8 stockpile, the following observations are summarized:

> Metals concentrations are less than regional soil background values with the exception of the one molybdenum detection which was less than the Lot 8 background concentration. The molybdenum

concentration is also within the range of concentrations detected in soil at the Seal Beach Facility (Avocet, 2005).

The Aroclor-1254 concentrations meet both state non-residential CHHSLs and federal non-residential PRGs and federal residential PRGs. They do not meet state residential CHHSLs.

TPH is less than 100 mg/kg in two of the three samples and VOC/SVOCs were not detected.

One sample contained a TPH concentration of 120 mg/kg; however, no VOCs or SVOCs were detected.

All other organic compounds are below their respective residential PRGs.

No other indications of impacts were observed.

Given the analytical results and the criteria summarized above, the stockpiled soil and can be exported as non-hazardous soil and meets environmental criteria for placement at the Seal Beach Facility provided that the site is used for non-residential purposes (due to the Aroclor-1254 concentrations).

We appreciate the opportunity to provide services on this project. Please do not hesitate to call if you have any questions or comments.

Richard M. Farson, PE
Senior Engineer

REGISTERED PROFESSIONAL ENGINEER
RICHARD M. FARSON
47269
EXPIRES 12/31/05
CIVIL
STATE OF CALIFORNIA

Scott P. Zachary
Project Manager

Attachments:

Appendix A – Laboratory Reports

REFERENCES

1. Avocet. 2005. Table of data received from Phil Miller via email, 6 June.

2. Cal-EPA. 1992. Background Levels of Trace Elements in Southern California Soils, Draft Annual Report, California Environmental Protection Agency, Contract No. 89-T0081 by University of California, Riverside, California. June.

3. Cal-EPA. 2005. Use of California Human Health Screening Levels in Evaluation of Contaminated Properties. January.

4. California Code of Regulations (CCR), Title 22, Section 66261.24.

5. Haley & Aldrich. 2002. Technical Memorandum, Site-Specific Background Metals Concentrations, Parcel C, Boeing Realty Corporation, Former C-6 Facility, Los Angeles, California. 4 January.

6. LARWQCB. 2002. No further Action for Shallow Soils, Boeing Realty Corporation, Former C-6 Facility, Parcel C, 19503 Normandie Avenue, Los Angeles. 6 December.

7. USEPA. 2004. Preliminary Remediation Goals, Region 9. October.

G:\Projects\ENVIRONMENTAL\28882_C6ProjectMngmt\Lot 8\Lot 8 Soil results\Lot8soilpileTM2-090705.doc

APPENDIX A

Laboratory Reports

Calscience Environmental Laboratories, Inc.

September 07, 2005

Diane Suzuki
Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Subject: **Calscience Work Order No.: 05-09-0166**
Client Reference: E5I020131

PRELIMINARY REPORT

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/2/2005 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Ranjit K. K. Clarke

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Severn Trent Laboratories, Inc.		Date Received:	09/02/05
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 3550B
		Method:	TPH - Carbon Range
		Units:	mg/kg
Project: E5I020131			Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SPXX-090105-0101	05-09-0166-1	09/01/05	Solid	09/02/05	09/03/05	050902B05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C7	ND		1		C21-C22	11		1	
C8	ND		1		C23-C24	ND		1	
C9-C10	ND		1		C25-C28	40		1	
C11-C12	0.028		1		C29-C32	ND		1	
C13-C14	0.41		1		C33-C36	7.5		1	
C15-C16	4.4		1		C37-C40	7.0		1	
C17-C18	3.9		1		C41-C44	13		1	
C19-C20	3.8		1		C7-C44 Total	80	5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	122	62-152	

SPXX-090105-0102	05-09-0166-2	09/01/05	Solid	09/02/05	09/03/05	050902B05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C7	ND		1		C21-C22	4.7		1	
C8	ND		1		C23-C24	8.9		1	
C9-C10	ND		1		C25-C28	18		1	
C11-C12	ND		1		C29-C32	36		1	
C13-C14	0.65		1		C33-C36	13		1	
C15-C16	1.0		1		C37-C40	12		1	
C17-C18	2.1		1		C41-C44	23		1	
C19-C20	1.6		1		C7-C44 Total	120	5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	121	62-152	

SPXX-090105-0103	05-09-0166-3	09/01/05	Solid	09/02/05	09/03/05	050902B05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C7	ND		1		C21-C22	2.0		1	
C8	ND		1		C23-C24	1.3		1	
C9-C10	ND		1		C25-C28	3.8		1	
C11-C12	ND		1		C29-C32	1.7		1	
C13-C14	ND		1		C33-C36	2.6		1	
C15-C16	0.040		1		C37-C40	1.0		1	
C17-C18	0.66		1		C41-C44	2.5		1	
C19-C20	0.32		1		C7-C44 Total	16	5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	124	62-152	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

PRELIMINARY REPORT

7440 Lincoln Way, Garden Grove, CA 92841-1427 ▪ TEL:(714) 895-5494 ▪ FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

Severn Trent Laboratories, Inc.		Date Received:	09/02/05
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 3550B
		Method:	TPH - Carbon Range
		Units:	mg/kg
Project: E5I020131			Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**098-03-002-4,807**	**N/A**	**Solid**	**09/02/05**	**09/02/05**	**050902B05**

Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	5.0	1	

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	120	62-152	

PRELIMINARY REPORT

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 ▪ TEL:(714) 895-5494 ▪ FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

Severn Trent Laboratories, Inc.		Date Received:	09/02/05
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: E5I020131			Page 1 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SPXX-090105-0101	05-09-0166-1	09/01/05	Solid	09/06/05	09/06/05	050906L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.40	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.40	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.40	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.40	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.40	1	
Naphthalene	ND	0.40	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.40	1	
2-Methylnaphthalene	ND	0.40	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.40	1		Chrysene	ND	0.40	1	
Hexachlorocyclopentadiene	ND	1.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.40	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.40	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.35	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.40	1	
Acenaphthylene	ND	0.40	1		Dibenz (a,h) Anthracene	ND	0.40	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.40	1	
Acenaphthene	ND	0.40	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	74	42-120		Phenol-d6	78	46-118	
Nitrobenzene-d5	83	42-150		2-Fluorobiphenyl	80	38-134	
2,4,6-Tribromophenol	84	36-132		p-Terphenyl-d14	96	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

PRELIMINARY REPORT

7440 Lincoln Way, Garden Grove, CA 92841-1427 ▪ TEL:(714) 895-5494 ▪ FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

Severn Trent Laboratories, Inc.		Date Received:	09/02/05
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: E5I020131			Page 2 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SPXX-090105-0102	05-09-0166-2	09/01/05	Solid	09/06/05	09/06/05	050906L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.40	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.40	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.40	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.40	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.40	1	
Naphthalene	ND	0.40	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.40	1	
2-Methylnaphthalene	ND	0.40	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.40	1		Chrysene	ND	0.40	1	
Hexachlorocyclopentadiene	ND	1.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.40	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.40	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.35	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.40	1	
Acenaphthylene	ND	0.40	1		Dibenz (a,h) Anthracene	ND	0.40	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.40	1	
Acenaphthene	ND	0.40	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	73	42-120		Phenol-d6	78	46-118	
Nitrobenzene-d5	86	42-150		2-Fluorobiphenyl	80	38-134	
2,4,6-Tribromophenol	83	36-132		p-Terphenyl-d14	98	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

PRELIMINARY REPORT

7440 Lincoln Way, Garden Grove, CA 92841-1427 ▪ TEL:(714) 895-5494 ▪ FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

Severn Trent Laboratories, Inc.		Date Received:	09/02/05
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: E5I020131			Page 3 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SPXX-090105-0103	05-09-0166-3	09/01/05	Solid	09/06/05	09/06/05	050906L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.40	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.40	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.40	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.40	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.40	1	
Naphthalene	ND	0.40	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.40	1	
2-Methylnaphthalene	ND	0.40	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.40	1		Chrysene	ND	0.40	1	
Hexachlorocyclopentadiene	ND	1.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.40	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.40	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.35	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.40	1	
Acenaphthylene	ND	0.40	1		Dibenz (a,h) Anthracene	ND	0.40	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.40	1	
Acenaphthene	ND	0.40	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	82	42-120		Phenol-d6	86	46-118	
Nitrobenzene-d5	96	42-150		2-Fluorobiphenyl	89	38-134	
2,4,6-Tribromophenol	91	36-132		p-Terphenyl-d14	99	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

PRELIMINARY REPORT

Calscience Environmental Laboratories, Inc.

Analytical Report

Severn Trent Laboratories, Inc.		Date Received:	09/02/05
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 3545
		Method:	EPA 8270C
		Units:	mg/kg
Project: E5I020131			Page 4 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**095-01-002-1,330**	**N/A**	**Solid**	**09/06/05**	**09/06/05**	**050906L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.40	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methylphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.40	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.40	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.40	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.40	1	
Naphthalene	ND	0.40	1		Pyridine	ND	0.50	1	
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.40	1	
2-Methylnaphthalene	ND	0.40	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.40	1		Chrysene	ND	0.40	1	
Hexachlorocyclopentadiene	ND	1.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.40	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.40	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.35	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.40	1	
Acenaphthylene	ND	0.40	1		Dibenz (a,h) Anthracene	ND	0.40	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.40	1	
Acenaphthene	ND	0.40	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2-Fluorophenol	69	42-120		Phenol-d6	74	46-118	
Nitrobenzene-d5	82	42-150		2-Fluorobiphenyl	77	38-134	
2,4,6-Tribromophenol	75	36-132		p-Terphenyl-d14	86	35-167	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

PRELIMINARY REPORT

Calscience Environmental Laboratories, Inc.

Analytical Report

Severn Trent Laboratories, Inc.		Date Received:	09/02/05
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 3545
		Method:	EPA 8310
		Units:	ug/kg
Project: E5I020131			Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SPXX-090105-0101	05-09-0166-1	09/01/05	Solid	09/06/05	09/06/05	050906L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	50	1		Benzo (a) Anthracene	ND	50	1	
Acenaphthylene	ND	50	1		Chrysene	ND	50	1	
Acenaphthene	ND	50	1		Benzo (b) Fluoranthene	ND	50	1	
Fluorene	ND	50	1		Benzo (k) Fluoranthene	ND	50	1	
Phenanthrene	ND	50	1		Benzo (a) Pyrene	ND	50	1	
Anthracene	ND	50	1		Dibenz (a,h) Anthracene	ND	50	1	
Fluoranthene	ND	50	1		Benzo (g,h,i) Perylene	ND	50	1	
Pyrene	ND	50	1		Indeno (1,2,3-c,d) Pyrene	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	94	40-160	

SPXX-090105-0102	05-09-0166-2	09/01/05	Solid	09/06/05	09/06/05	050906L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	50	1		Benzo (a) Anthracene	ND	50	1	
Acenaphthylene	ND	50	1		Chrysene	ND	50	1	
Acenaphthene	ND	50	1		Benzo (b) Fluoranthene	ND	50	1	
Fluorene	ND	50	1		Benzo (k) Fluoranthene	ND	50	1	
Phenanthrene	ND	50	1		Benzo (a) Pyrene	ND	50	1	
Anthracene	ND	50	1		Dibenz (a,h) Anthracene	ND	50	1	
Fluoranthene	ND	50	1		Benzo (g,h,i) Perylene	ND	50	1	
Pyrene	ND	50	1		Indeno (1,2,3-c,d) Pyrene	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	73	40-160	

SPXX-090105-0103	05-09-0166-3	09/01/05	Solid	09/06/05	09/06/05	050906L05

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	50	1		Benzo (a) Anthracene	ND	50	1	
Acenaphthylene	ND	50	1		Chrysene	ND	50	1	
Acenaphthene	ND	50	1		Benzo (b) Fluoranthene	ND	50	1	
Fluorene	ND	50	1		Benzo (k) Fluoranthene	ND	50	1	
Phenanthrene	ND	50	1		Benzo (a) Pyrene	ND	50	1	
Anthracene	ND	50	1		Dibenz (a,h) Anthracene	ND	50	1	
Fluoranthene	ND	50	1		Benzo (g,h,i) Perylene	ND	50	1	
Pyrene	ND	50	1		Indeno (1,2,3-c,d) Pyrene	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	57	40-160	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

PRELIMINARY REPORT

Calscience Environmental Laboratories, Inc.

Analytical Report

Severn Trent Laboratories, Inc.		Date Received:	09/02/05
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 3545
		Method:	EPA 8310
		Units:	ug/kg
Project: E5I020131			Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-07-002-571**	**N/A**	**Solid**	**09/06/05**	**09/06/05**	**050906L05**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	50	1		Benzo (a) Anthracene	ND	50	1	
Acenaphthylene	ND	50	1		Chrysene	ND	50	1	
Acenaphthene	ND	50	1		Benzo (b) Fluoranthene	ND	50	1	
Fluorene	ND	50	1		Benzo (k) Fluoranthene	ND	50	1	
Phenanthrene	ND	50	1		Benzo (a) Pyrene	ND	50	1	
Anthracene	ND	50	1		Dibenz (a,h) Anthracene	ND	50	1	
Fluoranthene	ND	50	1		Benzo (g,h,i) Perylene	ND	50	1	
Pyrene	ND	50	1		Indeno (1,2,3-c,d) Pyrene	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	64	40-160	

PRELIMINARY REPORT

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Severn Trent Laboratories, Inc.		Date Received:	09/02/05
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 3545
		Method:	EPA 8082
		Units:	ug/kg
Project: E5I020131			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SPXX-090105-0101	**05-09-0166-1**	**09/01/05**	**Solid**	**09/06/05**	**09/06/05**	**050906L06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	200	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	78	50-130		2,4,5,6-Tetrachloro-m-Xylene	69	50-130	

SPXX-090105-0102	**05-09-0166-2**	**09/01/05**	**Solid**	**09/06/05**	**09/06/05**	**050906L06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	150	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	70	50-130		2,4,5,6-Tetrachloro-m-Xylene	64	50-130	

SPXX-090105-0103	**05-09-0166-3**	**09/01/05**	**Solid**	**09/06/05**	**09/06/05**	**050906L06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	67	50-130		2,4,5,6-Tetrachloro-m-Xylene	67	50-130	

Method Blank	**099-07-009-703**	**N/A**	**Solid**	**09/06/05**	**09/06/05**	**050906L06**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1	
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1	
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1	
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	68	50-130		2,4,5,6-Tetrachloro-m-Xylene	64	50-130	

PRELIMINARY REPORT

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Severn Trent Laboratories, Inc.		Date Received:	09/02/05
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/kg
Project: E5I020131			Page 1 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SPXX-090105-0101	05-09-0166-1	09/01/05	Solid	09/03/05	09/03/05	050903L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	73-139		1,2-Dichloroethane-d4	107	73-145	
Toluene-d8	98	90-108		1,4-Bromofluorobenzene	95	71-113	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

PRELIMINARY REPORT

7440 Lincoln Way, Garden Grove, CA 92841-1427 ▪ TEL:(714) 895-5494 ▪ FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

Severn Trent Laboratories, Inc.		Date Received:	09/02/05
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/kg
Project: E5I020131			Page 2 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SPXX-090105-0102	05-09-0166-2	09/01/05	Solid	09/03/05	09/03/05	050903L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	94	73-139		1,2-Dichloroethane-d4	94	73-145	
Toluene-d8	98	90-108		1,4-Bromofluorobenzene	92	71-113	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

PRELIMINARY REPORT

7440 Lincoln Way, Garden Grove, CA 92841-1427 ▪ TEL:(714) 895-5494 ▪ FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

Severn Trent Laboratories, Inc.		Date Received:	09/02/05
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/kg
Project: E5I020131			Page 3 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SPXX-090105-0103	05-09-0166-3	09/01/05	Solid	09/03/05	09/03/05	050903L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	95	73-139		1,2-Dichloroethane-d4	95	73-145	
Toluene-d8	99	90-108		1,4-Bromofluorobenzene	93	71-113	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

PRELIMINARY REPORT

7440 Lincoln Way, Garden Grove, CA 92841-1427 ▪ TEL:(714) 895-5494 ▪ FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

Severn Trent Laboratories, Inc.		Date Received:	09/02/05
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/kg
Project: E5I020131			Page 4 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-10-005-11,111**	**N/A**	**Solid**	**09/03/05**	**09/03/05**	**050903L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	109	73-139		1,2-Dichloroethane-d4	106	73-145	
Toluene-d8	99	90-108		1,4-Bromofluorobenzene	93	71-113	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

PRELIMINARY REPORT

7440 Lincoln Way, Garden Grove, CA 92841-1427 ▪ TEL:(714) 895-5494 ▪ FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Severn Trent Laboratories, Inc.		Date Received:	09/02/05
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 3550B
		Method:	DHS LUFT

Project E5I020131

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-09-0053-11	**Solid**	**GC 15**	**09/02/05**	**09/02/05**	**050902S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	105	104	71-125	1	0-12	

PRELIMINARY REPORT

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received:	09/02/05
Work Order No:	05-09-0166
Preparation:	EPA 3545
Method:	EPA 8270C

Project E5I020131

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SPXX-090105-0102	**Solid**	**GC/MS N**	**09/06/05**	**09/06/05**	**050906S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	82	79	57-123	4	0-16	
2-Chlorophenol	79	74	57-111	7	0-17	
1,4-Dichlorobenzene	74	66	49-127	12	0-20	
N-Nitroso-di-n-propylamine	72	70	54-144	3	0-17	
1,2,4-Trichlorobenzene	66	61	42-132	7	0-20	
4-Chloro-3-Methylphenol	73	73	50-128	1	0-17	
Acenaphthene	70	66	49-133	6	0-18	
4-Nitrophenol	87	92	30-144	6	0-21	
2,4-Dinitrotoluene	70	71	50-128	1	0-18	
Pentachlorophenol	93	91	29-113	2	0-22	
Pyrene	76	78	47-149	2	0-20	

PRELIMINARY REPORT

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received:	09/02/05
Work Order No:	05-09-0166
Preparation:	EPA 3545
Method:	EPA 8310

Project E5I020131

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SPXX-090105-0102	**Solid**	**HPLC 5**	**09/06/05**	**09/06/05**	**050906S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	95	141	40-160	39	0-20	4
Benzo (k) Fluoranthene	108	152	40-160	34	0-20	4
Benzo (a) Pyrene	108	188	40-160	55	0-20	4,3
Dibenz (a,h) Anthracene	116	159	40-160	32	0-20	4
Benzo (g,h,i) Perylene	67	102	40-160	40	0-20	4
Indeno (1,2,3-c,d) Pyrene	94	144	40-160	42	0-20	4

PRELIMINARY REPORT

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received:	09/02/05
Work Order No:	05-09-0166
Preparation:	EPA 5030B
Method:	EPA 8260B

Project E5I020131

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SPXX-090105-0101	**Solid**	**GC/MS W**	**09/03/05**	**09/06/05**	**050903S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	91	99	79-115	8	0-13	
Carbon Tetrachloride	96	103	55-139	7	0-15	
Chlorobenzene	94	97	79-115	3	0-17	
1,2-Dichlorobenzene	90	90	63-123	0	0-23	
1,1-Dichloroethene	88	104	69-123	17	0-16	4
Toluene	97	99	79-115	2	0-15	
Trichloroethene	95	106	66-144	11	0-14	
Vinyl Chloride	86	84	60-126	3	0-14	
Methyl-t-Butyl Ether (MTBE)	85	104	68-128	20	0-14	4
Tert-Butyl Alcohol (TBA)	82	102	44-134	21	0-37	
Diisopropyl Ether (DIPE)	92	101	75-123	9	0-12	
Ethyl-t-Butyl Ether (ETBE)	94	102	75-117	8	0-12	
Tert-Amyl-Methyl Ether (TAME)	96	101	79-115	5	0-12	
Ethanol	98	98	42-138	1	0-28	

PRELIMINARY REPORT

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Severn Trent Laboratories, Inc.		Date Received:	N/A
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 3550B
		Method:	TPH - Carbon Range

Project: E5I020131

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
098-03-002-4,807	**Solid**	**GC 15**	**09/02/05**	**09/02/05**	**050902B05**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	108	117	71-119	8	0-20	

PRELIMINARY REPORT

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Severn Trent Laboratories, Inc.		Date Received:	N/A
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 3545
		Method:	EPA 8270C

Project: E5I020131

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-002-1,330	**Solid**	**GC/MS N**	**09/06/05**	**09/06/05**	**050906L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	80	81	59-125	0	0-15	
2-Chlorophenol	79	80	60-114	2	0-15	
1,4-Dichlorobenzene	78	76	61-121	2	0-21	
N-Nitroso-di-n-propylamine	79	79	64-136	1	0-15	
1,2,4-Trichlorobenzene	68	67	58-118	1	0-18	
4-Chloro-3-Methylphenol	71	72	61-121	2	0-14	
Acenaphthene	75	76	59-125	2	0-15	
4-Nitrophenol	93	10[illegible]	38-152	8	0-31	
2,4-Dinitrotoluene	77	84	51-141	8	0-16	
Pentachlorophenol	90	90	38-116	0	0-20	
Pyrene	94	95	51-141	1	0-14	

PRELIMINARY REPORT

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Severn Trent Laboratories, Inc.		Date Received:	N/A
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 3545
		Method:	EPA 8310

Project: E5I020131

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-002-571	**Solid**	**HPLC 5**	**09/06/05**	**09/06/05**	**050906L05**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	90	95	40-160	6	0-20	
Benzo (k) Fluoranthene	93	98	40-160	6	0-20	
Benzo (a) Pyrene	91	96	40-160	6	0-20	
Dibenz (a,h) Anthracene	92	100	40-160	9	0-20	
Benzo (g,h,i) Perylene	95	105	40-160	10	0-20	
Indeno (1,2,3-c,d) Pyrene	83	92	40-160	11	0-20	

PRELIMINARY REPORT

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Severn Trent Laboratories, Inc.		Date Received:	N/A
1721 South Grand Avenue		Work Order No:	05-09-0166
Santa Ana, CA 92705-4808		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: E5I020131

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-005-11,111	**Solid**	**GC/MS W**	**09/03/05**	**09/03/05**	**050903L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	99	84-114	1	0-7	
Carbon Tetrachloride	97	96	66-132	1	0-12	
Chlorobenzene	103	102	87-111	1	0-7	
1,2-Dichlorobenzene	104	102	79-115	2	0-8	
1,1-Dichloroethene	93	91	73-121	1	0-12	
Toluene	106	105	78-114	1	0-7	
Trichloroethene	100	99	84-114	1	0-8	
Vinyl Chloride	84	83	63-129	1	0-15	
Methyl-t-Butyl Ether (MTBE)	89	94	77-125	5	0-11	
Tert-Butyl Alcohol (TBA)	79	94	47-137	17	0-27	
Diisopropyl Ether (DIPE)	100	99	76-130	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	99	99	76-124	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	104	105	82-118	1	0-11	
Ethanol	86	95	59-131	10	0-21	

PRELIMINARY REPORT

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-09-0166

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

PRELIMINARY REPORT

7440 Lincoln Way, Garden Grove, CA 92841-1427 ▪ TEL:(714) 895-5494 ▪ FAX: (714) 894-7501

[redacted]

Chain of Custody Record

SEVERN TRENT **STL**
Severn Trent Laboratories, Inc.

0166

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
STL Los Angeles	DIANE SUZUKI	09.02.05	216654
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 **of** 1
1721 S Grand Ave	(714) ~~89~~ 258-8610 X325		

City	State	Zip Code	Site Contact	Lab Contact
Santa Ana	CA	92705		

Project Name and Location (State):

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.: E5I020131

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260 VOC	8270 SVOC	8310 PAH	8082 PCB	~~TPH Carbon Chainage~~	TPH CC	(C6-40+)	Special Instructions/ Conditions of Receipt
SPXX_090105_0101	09.01.05	1135				X							X	X	X	X		X		
SPXX_090105_0102	↓	1140				X							X	X	X	X		X		
SPXX_090105_0103	↓	1145				X							X	X	X	X		X		

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: TUESDAY ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Beth Riley	9/2/05	5:55	1. Received By: Stefana Cole	9/2/05	17:55
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

PRELIMINARY REPORT

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 05 - 09 - 0166

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: STL **DATE:** 9/2/05

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- ____ Chilled, cooler with temperature blank provided.
- ____ Chilled, cooler without temperature blank.
- ____ Chilled and placed in cooler with wet ice.
- ____ Ambient and placed in cooler with wet ice.
- ____ Ambient temperature.
- ____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- 3.6 °C IR thermometer.
- ____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact): ____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace			✓
Tedlar bag(s) free of condensation			✓

Initial: [illegible]

COMMENTS:

PRELIMINARY REPORT

EXECUTIVE SUMMARY - Detection Highlights

E5I020131

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SPXX_090105_0101 09/01/05 11:35 001				
Mercury	0.039 B	0.10	mg/kg	SW846 7471A
Aluminum	16800	20.0	mg/kg	SW846 6010B
Arsenic	6.8	1.0	mg/kg	SW846 6010B
Antimony	0.73 B	6.0	mg/kg	SW846 6010B
Barium	131	2.0	mg/kg	SW846 6010B
Chromium	27.3	1.0	mg/kg	SW846 6010B
Beryllium	0.68 J	0.50	mg/kg	SW846 6010B
Lead	7.2	0.50	mg/kg	SW846 6010B
Selenium	1.8	0.50	mg/kg	SW846 6010B
Cobalt	10.7	5.0	mg/kg	SW846 6010B
Copper	23.4	2.5	mg/kg	SW846 6010B
Molybdenum	0.84 B	4.0	mg/kg	SW846 6010B
Nickel	20.9	4.0	mg/kg	SW846 6010B
Vanadium	52.2	5.0	mg/kg	SW846 6010B
Zinc	59.2	2.0	mg/kg	SW846 6010B
Hexavalent Chromium	0.20 B	0.40	mg/kg	SW846 7199
SPXX_090105_0102 09/01/05 11:40 002				
Mercury	0.049 B	0.10	mg/kg	SW846 7471A
Aluminum	16500	20.0	mg/kg	SW846 6010B
Arsenic	6.3	1.0	mg/kg	SW846 6010B
Antimony	0.61 B	6.0	mg/kg	SW846 6010B
Barium	118	2.0	mg/kg	SW846 6010B
Chromium	26.2	1.0	mg/kg	SW846 6010B
Beryllium	0.61 J	0.50	mg/kg	SW846 6010B
Lead	6.8	0.50	mg/kg	SW846 6010B
Selenium	1.4	0.50	mg/kg	SW846 6010B
Cobalt	9.2	5.0	mg/kg	SW846 6010B
Copper	21.6	2.5	mg/kg	SW846 6010B
Molybdenum	0.83 B	4.0	mg/kg	SW846 6010B
Nickel	19.2	4.0	mg/kg	SW846 6010B
Vanadium	50.2	5.0	mg/kg	SW846 6010B
Zinc	58.7	2.0	mg/kg	SW846 6010B
SPXX_090105_0103 09/01/05 11:45 003				
Mercury	0.033 B	0.10	mg/kg	SW846 7471A
Aluminum	15400	20.0	mg/kg	SW846 6010B
Arsenic	11.8	1.0	mg/kg	SW846 6010B
Antimony	0.78 B	6.0	mg/kg	SW846 6010B
Barium	108	2.0	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E5I020131

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SPXX_090105_0103 09/01/05 11:45 003				
Chromium	32.6	1.0	mg/kg	SW846 6010B
Beryllium	0.65 J	0.50	mg/kg	SW846 6010B
Lead	5.3	0.50	mg/kg	SW846 6010B
Selenium	1.5	0.50	mg/kg	SW846 6010B
Cobalt	8.7	5.0	mg/kg	SW846 6010B
Copper	25.4	2.5	mg/kg	SW846 6010B
Molybdenum	2.0 B	4.0	mg/kg	SW846 6010B
Nickel	23.9	4.0	mg/kg	SW846 6010B
Vanadium	57.5	5.0	mg/kg	SW846 6010B
Zinc	57.4	2.0	mg/kg	SW846 6010B
Hexavalent Chromium	0.23 B	0.40	mg/kg	SW846 7199

METHODS SUMMARY

E5I020131

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Hexavalent Chromium	SW846 7199	
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

E5I020131

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HJTW1	001	SPXX_090105_0101	09/01/05	11:35
HJTXC	002	SPXX_090105_0102	09/01/05	11:40
HJTXD	003	SPXX_090105_0103	09/01/05	11:45

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0101

TOTAL Metals

Lot-Sample #...: E5I020131-001 **Matrix.....:** SO
Date Sampled...: 09/01/05 11:35 **Date Received..:** 09/01/05 14:50

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5245202						
Aluminum	**16800**	**20.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTW11AH**
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 8.0	
Arsenic	**6.8**	**1.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTW11AJ**
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.40	
Antimony	**0.73 B**	**6.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTW11AK**
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.60	
Barium	**131**	**2.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTW11AL**
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	09/02/05	HJTW11AM
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.080	
Chromium	**27.3**	**1.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTW11AN**
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.20	
Beryllium	**0.68 J**	**0.50**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTW11AP**
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.060	
Lead	**7.2**	**0.50**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTW11AQ**
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.30	
Selenium	**1.8**	**0.50**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTW11AR**
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.40	

(Continued on next page)

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0101

TOTAL Metals

Lot-Sample #...: E5I020131-001 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	09/02/05	HJTW11AT
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.10	
Cobalt	**10.7**	**5.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTW11AU**
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.20	
Copper	**23.4**	**2.5**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTW11AV**
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.40	
Molybdenum	**0.84 B**	**4.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTW11AW**
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.30	
Nickel	**20.9**	**4.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTW11AX**
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	09/02/05	HJTW11A0
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.50	
Vanadium	**52.2**	**5.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTW11A1**
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.10	
Zinc	**59.2**	**2.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTW11A2**
		Dilution Factor: 1		Analysis Time..: 22:05	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 1.0	

Prep Batch #...: 5245251

Mercury	**0.039 B**	**0.10**	**mg/kg**	**SW846 7471A**	**09/06/05**	**HJTW11A3**
		Dilution Factor: 1		Analysis Time..: 15:23	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 5249259	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0101

General Chemistry

Lot-Sample #...: E5I020131-001 **Work Order #...:** HJTW1 **Matrix.....:** SO
Date Sampled...: 09/01/05 11:35 **Date Received..:** 09/01/05 14:50

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	0.20 B	0.40	mg/kg	SW846 7199	09/02/05	5245157

Dilution Factor: 1 Analysis Time..: 10:55 Analyst ID.....: 000022
Instrument ID..: W18 MS Run #.....: 5245099 MDL.....: 0.20

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0102

TOTAL Metals

Lot-Sample #...: E5I020131-002 **Matrix.....:** SO
Date Sampled...: 09/01/05 11:40 **Date Received..:** 09/01/05 14:50

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5245202						
Aluminum	**16500**	**20.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXC1AN**
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 8.0	
Arsenic	**6.3**	**1.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXC1AP**
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.40	
Antimony	**0.61 B**	**6.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXC1AQ**
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.60	
Barium	**118**	**2.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXC1AR**
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	09/02/05	HJTXC1AT
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.080	
Chromium	**26.2**	**1.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXC1AU**
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.20	
Beryllium	**0.61 J**	**0.50**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXC1AV**
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.060	
Lead	**6.8**	**0.50**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXC1AW**
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.30	
Selenium	**1.4**	**0.50**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXC1AX**
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.40	

(Continued on next page)

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0102

TOTAL Metals

Lot-Sample #...: E5I020131-002 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	09/02/05	HJTXC1A0
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.10	
Cobalt	**9.2**	**5.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXC1A1**
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.20	
Copper	**21.6**	**2.5**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXC1A2**
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.40	
Molybdenum	**0.83 B**	**4.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXC1A3**
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.30	
Nickel	**19.2**	**4.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXC1A4**
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	09/02/05	HJTXC1AA
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.50	
Vanadium	**50.2**	**5.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXC1AC**
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.10	
Zinc	**58.7**	**2.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXC1AD**
		Dilution Factor: 1		Analysis Time..: 23:00	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 1.0	

Prep Batch #...: 5245251

Mercury	**0.049 B**	**0.10**	**mg/kg**	**SW846 7471A**	**09/06/05**	**HJTXC1AE**
		Dilution Factor: 1		Analysis Time..: 15:28	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 5249259	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0102

General Chemistry

Lot-Sample #...: E5I020131-002 **Work Order #...:** HJTXC **Matrix.....:** SO
Date Sampled...: 09/01/05 11:40 **Date Received..:** 09/01/05 14:50

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	ND	0.40	mg/kg	SW846 7199	09/02/05	5245157

Dilution Factor: 1 Analysis Time..: 12:29 Analyst ID.....: 0000229
Instrument ID..: W18 MS Run #.....: 5245099 MDL.....: 0.20

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0103

TOTAL Metals

Lot-Sample #...: E5I020131-003 **Matrix.....:** SO
Date Sampled...: 09/01/05 11:45 **Date Received..:** 09/01/05 14:50

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 5245202						
Aluminum	**15400**	**20.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXD1AN**
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 8.0	
Arsenic	**11.8**	**1.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXD1AP**
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.40	
Antimony	**0.78 B**	**6.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXD1AQ**
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.60	
Barium	**108**	**2.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXD1AR**
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	09/02/05	HJTXD1AT
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.080	
Chromium	**32.6**	**1.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXD1AU**
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.20	
Beryllium	**0.65 J**	**0.50**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXD1AV**
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.060	
Lead	**5.3**	**0.50**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXD1AW**
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.30	
Selenium	**1.5**	**0.50**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXD1AX**
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.40	

(Continued on next page)

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0103

TOTAL Metals

Lot-Sample #...: E5I020131-003 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	09/02/05	HJTXD1A0
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.10	
Cobalt	**8.7**	**5.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXD1A1**
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.20	
Copper	**25.4**	**2.5**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXD1A2**
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.40	
Molybdenum	**2.0 B**	**4.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXD1A3**
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.30	
Nickel	**23.9**	**4.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXD1A4**
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg	SW846 6010B	09/02/05	HJTXD1AA
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.50	
Vanadium	**57.5**	**5.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXD1AC**
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 0.10	
Zinc	**57.4**	**2.0**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJTXD1AD**
		Dilution Factor: 1		Analysis Time..: 23:07	Analyst ID.....: 021088	
		Instrument ID..: M01		MS Run #.....: 5245301	MDL.....: 1.0	

Prep Batch #...: 5245251

Mercury	**0.033 B**	**0.10**	**mg/kg**	**SW846 7471A**	**09/06/05**	**HJTXD1AE**
		Dilution Factor: 1		Analysis Time..: 15:30	Analyst ID.....: 000023	
		Instrument ID..: M04		MS Run #.....: 5249259	MDL.....: 0.020	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0103

General Chemistry

Lot-Sample #...: E5I020131-003 **Work Order #...:** HJTXD **Matrix.....:** SO
Date Sampled...: 09/01/05 11:45 **Date Received..:** 09/01/05 14:50

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium	0.23 B	0.40	mg/kg	SW846 7199	09/02/05	5245157

Dilution Factor: 1 Analysis Time..: 12:48 Analyst ID.....: 0000229
Instrument ID..: W18 MS Run #.....: 5245099 MDL.....: 0.20

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

E5I020131

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SO	SW846 7471A		5245251	5249259
	SO	SW846 6010B		5245202	5245301
	SO	SW846 7199		5245157	5245099
002	SO	SW846 7471A		5245251	5249259
	SO	SW846 6010B		5245202	5245301
	SO	SW846 7199		5245157	5245099
003	SO	SW846 7471A		5245251	5249259
	SO	SW846 6010B		5245202	5245301
	SO	SW846 7199		5245157	5245099

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E5I020131 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: E5I020000-202 **Prep Batch #...:** 5245202						
Aluminum	ND	20.0	mg/kg	SW846 6010B	09/02/05	HJT6V1CD
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B	09/02/05	HJT6V1AA
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B	09/02/05	HJT6V1AC
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	
Barium	ND	2.0	mg/kg	SW846 6010B	09/02/05	HJT6V1AD
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B	09/02/05	HJT6V1AE
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	
Chromium	ND	1.0	mg/kg	SW846 6010B	09/02/05	HJT6V1AF
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	
Beryllium	**0.20 B**	**0.50**	**mg/kg**	**SW846 6010B**	**09/02/05**	**HJT6V1AG**
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	
Lead	ND	0.50	mg/kg	SW846 6010B	09/02/05	HJT6V1AH
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B	09/02/05	HJT6V1AJ
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	
Silver	ND	1.0	mg/kg	SW846 6010B	09/02/05	HJT6V1AK
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B	09/02/05	HJT6V1AL
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E5I020131 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	2.5	mg/kg	SW846 6010B	09/02/05	HJT6V1AM
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	
Molybdenum	ND	4.0	mg/kg	SW846 6010B	09/02/05	HJT6V1AN
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	
Nickel	ND	4.0	mg/kg	SW846 6010B	09/02/05	HJT6V1AP
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	
Thallium	ND	1.0	mg/kg	SW846 6010B	09/02/05	HJT6V1AQ
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	
Vanadium	ND	5.0	mg/kg	SW846 6010B	09/02/05	HJT6V1AR
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	
Zinc	ND	2.0	mg/kg	SW846 6010B	09/02/05	HJT6V1AT
		Dilution Factor: 1				
		Analysis Time..: 21:47		Analyst ID.....: 021088	Instrument ID..: M01	

MB Lot-Sample #: E5I020000-251 **Prep Batch #...:** 5245251

Mercury	ND	0.10	mg/kg	SW846 7471A	09/06/05	HJVJX1AA
		Dilution Factor: 1				
		Analysis Time..: 15:19		Analyst ID.....: 000023	Instrument ID..: M04	

NOTE(S):

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

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: E5I020131 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: HJT1R1AA		MB Lot-Sample #:	E5I020000-157	
	ND	0.40	mg/kg	SW846 7199	09/02/05	5245157
		Dilution Factor: 1				
		Analysis Time..: 10:36		Analyst ID.....: 000022	Instrument ID..: W18	

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E5I020131 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: E5I020000-202 **Prep Batch #...:** 5245202					
Arsenic	103	(75 - 115)	SW846 6010B	09/02/05	HJT6V1AU
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			
Aluminum	84	(70 - 115)	SW846 6010B	09/02/05	HJT6V1CE
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			
Antimony	95	(70 - 115)	SW846 6010B	09/02/05	HJT6V1AV
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			
Barium	100	(80 - 115)	SW846 6010B	09/02/05	HJT6V1AW
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			
Cadmium	97	(80 - 120)	SW846 6010B	09/02/05	HJT6V1AX
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			
Chromium	100	(85 - 120)	SW846 6010B	09/02/05	HJT6V1A0
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			
Beryllium	105	(80 - 120)	SW846 6010B	09/02/05	HJT6V1A1
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			
Lead	99	(75 - 115)	SW846 6010B	09/02/05	HJT6V1A2
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			
Selenium	96	(70 - 110)	SW846 6010B	09/02/05	HJT6V1A3
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			
Silver	98	(75 - 120)	SW846 6010B	09/02/05	HJT6V1A4
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E5I020131 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	98	(80 - 120)	SW846 6010B	09/02/05	HJT6V1A5
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			
Copper	103	(80 - 120)	SW846 6010B	09/02/05	HJT6V1A6
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			
Molybdenum	102	(80 - 120)	SW846 6010B	09/02/05	HJT6V1A7
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			
Nickel	98	(80 - 120)	SW846 6010B	09/02/05	HJT6V1A8
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			
Thallium	91	(70 - 120)	SW846 6010B	09/02/05	HJT6V1A9
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			
Vanadium	97	(80 - 120)	SW846 6010B	09/02/05	HJT6V1CA
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			
Zinc	102	(80 - 120)	SW846 6010B	09/02/05	HJT6V1CC
		Dilution Factor: 1	Analysis Time..: 21:52		Analyst ID.....: 021088
		Instrument ID..: M01			

LCS Lot-Sample#: E5I020000-251 **Prep Batch #...:** 5245251

Mercury	98	(80 - 115)	SW846 7471A	09/06/05	HJVJX1AC
		Dilution Factor: 1	Analysis Time..: 15:21		Analyst ID.....: 000023
		Instrument ID..: M04			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E5I020131 **Matrix.....:** SOLID

LCS Lot-Sample#: E5I020000-202 **Prep Batch #...:** 5245202

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Arsenic	200	206	mg/kg	103	SW846 6010B	09/02/05	HJT6V1AU
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				
Aluminum	200	169	mg/kg	84	SW846 6010B	09/02/05	HJT6V1CE
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				
Antimony	50.0	47.5	mg/kg	95	SW846 6010B	09/02/05	HJT6V1AV
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				
Barium	200	201	mg/kg	100	SW846 6010B	09/02/05	HJT6V1AW
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				
Cadmium	5.00	4.87	mg/kg	97	SW846 6010B	09/02/05	HJT6V1AX
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				
Chromium	20.0	19.9	mg/kg	100	SW846 6010B	09/02/05	HJT6V1A0
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				
Beryllium	5.00	5.23	mg/kg	105	SW846 6010B	09/02/05	HJT6V1A1
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				
Lead	50.0	49.5	mg/kg	99	SW846 6010B	09/02/05	HJT6V1A2
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				
Selenium	200	191	mg/kg	96	SW846 6010B	09/02/05	HJT6V1A3
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				
Silver	5.00	4.91	mg/kg	98	SW846 6010B	09/02/05	HJT6V1A4
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E5I020131 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	50.0	49.1	mg/kg	98	SW846 6010B	09/02/05	HJT6V1A5
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				
Copper	25.0	25.8	mg/kg	103	SW846 6010B	09/02/05	HJT6V1A6
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				
Molybdenum	100	102	mg/kg	102	SW846 6010B	09/02/05	HJT6V1A7
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				
Nickel	50.0	48.8	mg/kg	98	SW846 6010B	09/02/05	HJT6V1A8
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				
Thallium	200	182	mg/kg	91	SW846 6010B	09/02/05	HJT6V1A9
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				
Vanadium	50.0	48.5	mg/kg	97	SW846 6010B	09/02/05	HJT6V1CA
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				
Zinc	50.0	51.2	mg/kg	102	SW846 6010B	09/02/05	HJT6V1CC
			Dilution Factor: 1		Analysis Time..: 21:52	Analyst ID.....: 021088	
			Instrument ID..: M01				

LCS Lot-Sample#: E5I020000-251 **Prep Batch #...:** 5245251

Mercury	0.833	0.820	mg/kg	98	SW846 7471A	09/06/05	HJVJX1AC
			Dilution Factor: 1		Analysis Time..: 15:21	Analyst ID.....: 000023	
			Instrument ID..: M04				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5I020131 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #: HJT1R1AC	LCS Lot-Sample#: E5I020000-157		
	103	(80 - 120)	SW846 7199	09/02/05	5245157

Dilution Factor: 1 Analysis Time..: 10:18 Analyst ID.....: 000022
Instrument ID..: W18

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5I020131 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium			Work Order #: HJT1R1AC		LCS Lot-Sample#: E5I020000-157		
	40.0	41.1	mg/kg	103	SW846 7199	09/02/05	5245157
			Dilution Factor: 1		Analysis Time..: 10:18	Analyst ID.....: 000022	
			Instrument ID..: W18				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E5I020131 **Matrix.....:** SO
Date Sampled...: 09/01/05 11:35 **Date Received..:** 09/01/05 14:50

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: E5I020131-001 **Prep Batch #...:** 5245202							
Aluminum	NC	(70 - 115)			SW846 6010B	09/02/05	HJTW11CE
	NC	(70 - 115)		(0-25)	SW846 6010B	09/02/05	HJTW11CF
		Dilution Factor: 1					
		Analysis Time..: 22:19		Instrument ID..: M01		Analyst ID.....: 021088	
		MS Run #.....: 5245301					
Arsenic	97	(75 - 115)			SW846 6010B	09/02/05	HJTW11CG
	97	(75 - 115)	0.15	(0-25)	SW846 6010B	09/02/05	HJTW11CH
		Dilution Factor: 1					
		Analysis Time..: 22:19		Instrument ID..: M01		Analyst ID.....: 021088	
		MS Run #.....: 5245301					
Antimony	29 N	(70 - 115)			SW846 6010B	09/02/05	HJTW11CJ
	28 N	(70 - 115)	1.2	(0-25)	SW846 6010B	09/02/05	HJTW11CK
		Dilution Factor: 1					
		Analysis Time..: 22:19		Instrument ID..: M01		Analyst ID.....: 021088	
		MS Run #.....: 5245301					
Barium	95	(80 - 115)			SW846 6010B	09/02/05	HJTW11CL
	93	(80 - 115)	0.86	(0-25)	SW846 6010B	09/02/05	HJTW11CM
		Dilution Factor: 1					
		Analysis Time..: 22:19		Instrument ID..: M01		Analyst ID.....: 021088	
		MS Run #.....: 5245301					
Cadmium	80	(80 - 120)			SW846 6010B	09/02/05	HJTW11CN
	83	(80 - 120)	2.8	(0-25)	SW846 6010B	09/02/05	HJTW11CP
		Dilution Factor: 1					
		Analysis Time..: 22:19		Instrument ID..: M01		Analyst ID.....: 021088	
		MS Run #.....: 5245301					
Chromium	96	(85 - 120)			SW846 6010B	09/02/05	HJTW11CQ
	96	(85 - 120)	0.32	(0-25)	SW846 6010B	09/02/05	HJTW11CR
		Dilution Factor: 1					
		Analysis Time..: 22:19		Instrument ID..: M01		Analyst ID.....: 021088	
		MS Run #.....: 5245301					
Beryllium	95	(80 - 120)			SW846 6010B	09/02/05	HJTW11CT
	94	(80 - 120)	0.57	(0-25)	SW846 6010B	09/02/05	HJTW11CU
		Dilution Factor: 1					
		Analysis Time..: 22:19		Instrument ID..: M01		Analyst ID.....: 021088	
		MS Run #.....: 5245301					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E5I020131 **Matrix.....:** SO
Date Sampled...: 09/01/05 11:35 **Date Received..:** 09/01/05 14:50

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Lead	89	(75 - 115)			SW846 6010B	09/02/05	HJTW11CV
	90	(75 - 115)	0.78	(0-25)	SW846 6010B	09/02/05	HJTW11CW
		Dilution Factor: 1					
		Analysis Time..: 22:19	Instrument ID..: M01			Analyst ID.....: 021088	
		MS Run #.....: 5245301					
Selenium	90	(70 - 110)			SW846 6010B	09/02/05	HJTW11CX
	91	(70 - 110)	0.27	(0-25)	SW846 6010B	09/02/05	HJTW11C0
		Dilution Factor: 1					
		Analysis Time..: 22:19	Instrument ID..: M01			Analyst ID.....: 021088	
		MS Run #.....: 5245301					
Silver	89	(75 - 120)			SW846 6010B	09/02/05	HJTW11C1
	90	(75 - 120)	1.0	(0-25)	SW846 6010B	09/02/05	HJTW11C2
		Dilution Factor: 1					
		Analysis Time..: 22:19	Instrument ID..: M01			Analyst ID.....: 021088	
		MS Run #.....: 5245301					
Cobalt	88	(80 - 120)			SW846 6010B	09/02/05	HJTW11C3
	87	(80 - 120)	0.14	(0-25)	SW846 6010B	09/02/05	HJTW11C4
		Dilution Factor: 1					
		Analysis Time..: 22:19	Instrument ID..: M01			Analyst ID.....: 021088	
		MS Run #.....: 5245301					
Copper	107	(80 - 120)			SW846 6010B	09/02/05	HJTW11C5
	105	(80 - 120)	1.2	(0-25)	SW846 6010B	09/02/05	HJTW11C6
		Dilution Factor: 1					
		Analysis Time..: 22:19	Instrument ID..: M01			Analyst ID.....: 021088	
		MS Run #.....: 5245301					
Molybdenum	91	(80 - 120)			SW846 6010B	09/02/05	HJTW11C7
	90	(80 - 120)	0.48	(0-25)	SW846 6010B	09/02/05	HJTW11C8
		Dilution Factor: 1					
		Analysis Time..: 22:19	Instrument ID..: M01			Analyst ID.....: 021088	
		MS Run #.....: 5245301					
Nickel	88	(80 - 120)			SW846 6010B	09/02/05	HJTW11C9
	87	(80 - 120)	0.47	(0-25)	SW846 6010B	09/02/05	HJTW11DA
		Dilution Factor: 1					
		Analysis Time..: 22:19	Instrument ID..: M01			Analyst ID.....: 021088	
		MS Run #.....: 5245301					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: E5I020131 **Matrix.....:** SO
Date Sampled...: 09/01/05 11:35 **Date Received..:** 09/01/05 14:50

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	85	(70 - 120)			SW846 6010B	09/02/05	HJTW11DC
	85	(70 - 120)	0.50	(0-25)	SW846 6010B	09/02/05	HJTW11DD

Dilution Factor: 1
Analysis Time..: 22:19 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5245301

Vanadium	96	(80 - 120)			SW846 6010B	09/02/05	HJTW11DE
	93	(80 - 120)	1.4	(0-25)	SW846 6010B	09/02/05	HJTW11DF

Dilution Factor: 1
Analysis Time..: 22:19 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5245301

Zinc	100	(80 - 120)			SW846 6010B	09/02/05	HJTW11DG
	99	(80 - 120)	0.49	(0-25)	SW846 6010B	09/02/05	HJTW11DH

Dilution Factor: 1
Analysis Time..: 22:19 Instrument ID..: M01 Analyst ID.....: 021088
MS Run #.....: 5245301

MS Lot-Sample #: E5I020131-001 **Prep Batch #...:** 5245251

Mercury	99	(80 - 120)			SW846 7471A	09/06/05	HJTW11DJ
	94	(80 - 120)	4.1	(0-20)	SW846 7471A	09/06/05	HJTW11DK

Dilution Factor: 1
Analysis Time..: 15:25 Instrument ID..: M04 Analyst ID.....: 000023
MS Run #.....: 5249259

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E5I020131 **Matrix.....:** SO
Date Sampled...: 09/01/05 11:35 **Date Received..:** 09/01/05 14:50

MS Lot-Sample #: E5I020131-001 **Prep Batch #...:** 5245202

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Aluminum									
	16800	200	18100	mg/kg			SW846 6010B	09/02/05	HJTW11CE
			Qualifiers: NC						
	16800	200	17700	mg/kg			SW846 6010B	09/02/05	HJTW11CF
			Qualifiers: NC						
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						
Arsenic									
	6.8	200	200	mg/kg	97		SW846 6010B	09/02/05	HJTW11CG
	6.8	200	201	mg/kg	97	0.15	SW846 6010B	09/02/05	HJTW11CH
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						
Antimony									
	0.73	50.0	15.0 N	mg/kg	29		SW846 6010B	09/02/05	HJTW11CJ
	0.73	50.0	14.8 N	mg/kg	28	1.2	SW846 6010B	09/02/05	HJTW11CK
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						
Barium									
	131	200	320	mg/kg	95		SW846 6010B	09/02/05	HJTW11CL
	131	200	318	mg/kg	93	0.86	SW846 6010B	09/02/05	HJTW11CM
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						
Cadmium									
	ND	5.00	4.02	mg/kg	80		SW846 6010B	09/02/05	HJTW11CN
	ND	5.00	4.13	mg/kg	83	2.8	SW846 6010B	09/02/05	HJTW11CP
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						
Chromium									
	27.3	20.0	46.6	mg/kg	96		SW846 6010B	09/02/05	HJTW11CQ
	27.3	20.0	46.5	mg/kg	96	0.32	SW846 6010B	09/02/05	HJTW11CR
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E5I020131 **Matrix.....:** SO
Date Sampled...: 09/01/05 11:35 **Date Received..:** 09/01/05 14:50

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	0.68	5.00	5.41	mg/kg	95		SW846 6010B	09/02/05	HJTW11CT
	0.68	5.00	5.38	mg/kg	94	0.57	SW846 6010B	09/02/05	HJTW11CU
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						
Lead									
	7.2	50.0	51.8	mg/kg	89		SW846 6010B	09/02/05	HJTW11CV
	7.2	50.0	52.3	mg/kg	90	0.78	SW846 6010B	09/02/05	HJTW11CW
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						
Selenium									
	1.8	200	183	mg/kg	90		SW846 6010B	09/02/05	HJTW11CX
	1.8	200	183	mg/kg	91	0.27	SW846 6010B	09/02/05	HJTW11C0
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						
Silver									
	ND	5.00	4.47	mg/kg	89		SW846 6010B	09/02/05	HJTW11C1
	ND	5.00	4.52	mg/kg	90	1.0	SW846 6010B	09/02/05	HJTW11C2
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						
Cobalt									
	10.7	50.0	54.5	mg/kg	88		SW846 6010B	09/02/05	HJTW11C3
	10.7	50.0	54.4	mg/kg	87	0.14	SW846 6010B	09/02/05	HJTW11C4
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						
Copper									
	23.4	25.0	50.2	mg/kg	107		SW846 6010B	09/02/05	HJTW11C5
	23.4	25.0	49.6	mg/kg	105	1.2	SW846 6010B	09/02/05	HJTW11C6
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E5I020131 **Matrix.....:** SO
Date Sampled...: 09/01/05 11:35 **Date Received..:** 09/01/05 14:50

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Molybdenum									
	0.84	100	91.4	mg/kg	91		SW846 6010B	09/02/05	HJTW11C7
	0.84	100	91.0	mg/kg	90	0.48	SW846 6010B	09/02/05	HJTW11C8
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						
Nickel									
	20.9	50.0	64.9	mg/kg	88		SW846 6010B	09/02/05	HJTW11C9
	20.9	50.0	64.6	mg/kg	87	0.47	SW846 6010B	09/02/05	HJTW11DA
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						
Thallium									
	ND	200	169	mg/kg	85		SW846 6010B	09/02/05	HJTW11DC
	ND	200	170	mg/kg	85	0.50	SW846 6010B	09/02/05	HJTW11DD
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						
Vanadium									
	52.2	50.0	100	mg/kg	96		SW846 6010B	09/02/05	HJTW11DE
	52.2	50.0	98.9	mg/kg	93	1.4	SW846 6010B	09/02/05	HJTW11DF
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						
Zinc									
	59.2	50.0	109	mg/kg	100		SW846 6010B	09/02/05	HJTW11DG
	59.2	50.0	109	mg/kg	99	0.49	SW846 6010B	09/02/05	HJTW11DH
			Dilution Factor: 1						
			Analysis Time..: 22:19		Instrument ID..: M01			Analyst ID.....: 021088	
			MS Run #.....: 5245301						

MS Lot-Sample #: E5I020131-001 **Prep Batch #...:** 5245251

Mercury									
	0.039	0.167	0.205	mg/kg	99		SW846 7471A	09/06/05	HJTW11DJ
	0.039	0.167	0.197	mg/kg	94	4.1	SW846 7471A	09/06/05	HJTW11DK
			Dilution Factor: 1						
			Analysis Time..: 15:25		Instrument ID..: M04			Analyst ID.....: 000023	
			MS Run #.....: 5249259						

NOTE(S):

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

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: E5I020131 **Matrix.....:** SO
Date Sampled...: 09/01/05 11:35 **Date Received..:** 09/01/05 14:50

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium		Work Order #...: HJTW11A5		MS Lot-Sample #:	E5I020131-001
	106	(80 - 120)	SW846 7199	09/02/05	5245157
		Dilution Factor: 5	Analysis Time..: 10:55		Instrument ID..: W18
		Analyst ID.....: 000022			
		MS Run #.....: 5245099			
Hexavalent Chromium		Work Order #...: HJTW11A7		MS Lot-Sample #:	E5I020131-001
	99	(80 - 120)	SW846 7199	09/02/05	5245157
		Dilution Factor: 100	Analysis Time..: 10:55		Instrument ID..: W18
		Analyst ID.....: 000022			
		MS Run #.....: 5245099			

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: E5I020131 **Matrix.....:** SO
Date Sampled...: 09/01/05 11:35 **Date Received..:** 09/01/05 14:50

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium			Work Order #...: HJTW11A5			MS Lot-Sample #: E5I020131-001		
	0.20	40.0	42.7	mg/kg	106	SW846 7199	09/02/05	5245157
			Dilution Factor: 5		Analysis Time..: 10:55		Instrument ID..: W18	
			Analyst ID.....: 000022					
			MS Run #.....: 5245099					
Hexavalent Chromium			Work Order #...: HJTW11A7			MS Lot-Sample #: E5I020131-001		
	0.20	669	663	mg/kg	99	SW846 7199	09/02/05	5245157
			Dilution Factor: 100		Analysis Time..: 10:55		Instrument ID..: W18	
			Analyst ID.....: 000022					
			MS Run #.....: 5245099					

NOTE(S):

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: E5I020131 **Work Order #...:** HJTW1-SMP HJTW1-DUP **Matrix.....:** SO

Date Sampled...: 09/01/05 11:35 **Date Received..:** 09/01/05 14:50

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium						SD Lot-Sample #: E5I020131-001		
	0.20 B	ND	mg/kg	3.1	(0-20)	SW846 7199	09/02/05	5245157

Dilution Factor: 1 Analysis Time..: 10:55 Analyst ID.....: 000022

Instrument ID..: W18 MS Run Number..: 5245099

NOTE(S):

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

B Estimated result. Result is less than RL.