

Pinellas Environmental Restoration Project

Quarterly Progress Report

4.5 Acre Site

October Through December 2003

January 2004



U.S. Department
of Energy



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Work Performed by S.M. Stoller Corporation under DOE Contract No. DE-AC01-02GJ79491
for the U.S. Department of Energy Office of Legacy Management, Grand Junction, Colorado

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Acronyms and Abbreviations

bls	below land surface
COPC	contaminants of potential concern
DCE	dichloroethene
DOE	U.S. Department of Energy
DPE	dual-phase extraction
DPT	direct push technology
FDEP	Florida Department of Environmental Protection
ft	feet
IRA	Interim Remedial Action
µg/L	micrograms per liter
µmhos/cm	micromhos per centimeter
MCL	maximum contaminant level
mg/L	milligrams per liter
mV	millivolts
NGVD	national geodetic vertical datum
NTU	Nephelometric Turbidity Units
RPD	relative percent difference
STAR Center	Young - Rainey Science, Technology, and Research Center
STL	Severn Trent Laboratories
TCE	trichloroethene
TCOPC	total contaminants of potential concern
VC	vinyl chloride
VOCs	volatile organic compounds

1.0 Introduction

The *Pinellas Environmental Restoration Project Quarterly Progress Report for the 4.5 Acre Site* describes environmental restoration activities for the Pinellas 4.5 Acre Site located in Pinellas County, Largo, Florida. The former U.S. Department of Energy (DOE) Pinellas Plant facility consisted of the 4.5 Acre Site and the Young - Rainey Science, Technology, and Research Center (STAR Center) (Figure 1). The facility was constructed in the mid-1950s as part of a nationwide nuclear weapons research, development, and production complex. Production of weapons-related components ceased in September 1994. However, as a result of these operations, contamination exists in the surficial ground water beneath the Site.

Administration of DOE activities at the 4.5 Acre Site is the responsibility of the DOE Idaho Operations Office. Responsibility for environmental restoration activities at the 4.5 Acre Site was transferred from DOE's Pinellas Area Office to DOE's Grand Junction Office in October 1997. S.M. Stoller Corporation (Stoller), a prime contractor to DOE's Office of Legacy Management at Grand Junction (formerly DOE's Grand Junction Office), provides technical support to DOE for remediation and closure of all active solid-waste management units on site and for the 4.5 Acre Site.

The 4.5 Acre Site is located to the northwest of the STAR Center, northeast quarter of Section 13, Township 30 South, Range 15 East (Figure 2). This parcel was owned by DOE from 1957 to 1972, at which time it was sold to a private landowner. During the period of DOE ownership, the property was used for disposal of drums of waste resins and solvents. As a result of this practice, the surficial aquifer was impacted by volatile organic compounds (VOCs), primarily vinyl chloride (VC), toluene, trichloroethene (TCE), and 1,2-dichloroethene (DCE). DOE completed a source removal in 1985.

An Interim Remedial Action (IRA) consisting of ground water extraction and treatment via air stripping, and a routine ground water monitoring program were initiated in May 1990. In July 1997, a modification of the IRA involving installation of dual-phase extraction (DPE) wells provided a more aggressive system to remove ground water contamination. In November 1999, the DPE/air-stripping system was replaced with an in-situ biosparge treatment system.

Currently, ground water cleanup is proceeding according to provisions in the document *Remediation Agreement for the Four and One-Half Acre Site in Largo, Pinellas County, Florida* (Remediation Agreement) (FDEP 2001), an agreement between DOE and the Florida Department of Environmental Protection (FDEP); and in accordance with applicable portions of "Corrective Actions for Contamination Site Cases," an appendix to FDEP's *Enforcement Manual* (FDEP 1999).

The *4.5 Acre Site Biosparge System Integration Plan* (DOE 2000a) was approved by FDEP on January 17, 2001. This plan states that performance monitoring would be undertaken on a quarterly basis. Therefore, in April 2001, performance monitoring of the remedial system through the use of direct push technology (DPT) was undertaken. However, the biosparge systems were shut off in May 2003 with no plans to restart them and no performance monitoring data have been collected since April 2003. Subsequent monitoring will be adapted to fit the new remediation scenario and performance monitoring will no longer occur.

This document is the quarterly progress report for the 4.5 Acre Site for October through December 2003, as requested by FDEP. The results of monitoring activities and a summary of ongoing and projected work are provided in this report.

1.1 Site Update

The Interim Remedial Action (IRA) Plan for Ground Water Recovery at the 4.5 Acre Site was submitted to FDEP on August 29, 2003, and approved by FDEP on September 19, 2003. The plan provides a conceptual design for an interim remedial action consisting of a temporary ground water recovery system to contain the contaminant plume on site. The interim remedial action final design will be presented in an addendum to this document. The temporary measure was outlined in the Remedial Action Plan as a contingency option in the event that biosparging resulted in extending the contaminant plume. The final, long-term remedy selection and conceptual design will be submitted to FDEP by June 1, 2004, and when approved, will become an addendum to the Remedial Action Plan.

The design of an IRA ground water treatment system within the 4.5 Acre Site was submitted to FDEP in mid-December 2003. The system consists of an extraction well field, piping/pump installation, transmission water pipeline, utility connection, installation of an air stripper unit, and effluent piping connection. Upon approval by FDEP, construction of the IRA is expected to begin in late January with the installation of recovery wells, and system operation is expected to start in April 2004.

Decommissioning and demolition of the old 4.5 Acre Site treatment system was begun the last week of September 2003. The demolition of the treatment plant equipment, the sump at the southern end of the treatment pad, and the concrete associated with the sump were removed and disposed of. Buried utilities associated with the treatment pad were also stubbed-out.

1.2 Quarterly Site Activities

- Obtained water-level measurements from all monitoring wells on October 6 and 7, 2003.
- Conducted the quarterly sampling event (i.e., collected ground water samples from 28 monitoring wells) in October 2003. Twenty-seven of the monitoring wells were sampled for VOCs and 28 were sampled for lead and arsenic.
- Reported the results of quarterly sampling events (this document).
- Implemented newly revised data validation procedures for field data.

2.0 Monitoring Data

2.1 Ground Water Elevations and Flow

Within a 24-hour period on October 6 and 7, 2003, depth-to-water measurements were taken in all monitoring wells at the 4.5 Acre Site as part of the sitewide quarterly sampling event. The depth to water in each well was measured with an electronic water-level indicator. The October ground water elevation data for the 4.5 Acre Site are listed in [Table 1](#). The data and information

from deep wells were used to construct contours of water levels in the deep surficial aquifer in [Figure 3](#).

The interpretative contours on [Figure 3](#) show ground water flow generally to the west. These flow patterns are consistent with those previously observed at the site (i.e., flow to the west-northwest) when the aquifer is under static, non-pumping conditions. The slight ground water low that had been observed around monitoring well PIN20-M049 when water levels were measured following shutdown of the biosparging system was not apparent during the last three quarterly sampling events.

The water table ranged from about 2 to 4.5 ft bls, with ground water elevations that ranged from a high of 16.34 ft at PIN20-TE01 to a low of 13.82 ft at PIN20-M38D. The hydraulic gradient across the site was approximately 0.003 feet per foot. This gradient is the same as that observed in April and July 2003. Using Darcy's Law, along with approximations of 1 ft/day for hydraulic conductivity and 0.3 for effective porosity, ground water at the site is estimated to move about 3 ft/year, which is the same as that observed in April and July, but slightly less than previously observed velocities of 6 to 10 ft/year.

2.2 Ground Water Sampling

Twenty-eight monitoring wells were sampled by Stoller personnel in October 2003. VOCs were sampled in 27 of the wells, 28 of the wells were sampled for arsenic and lead.

All samples were collected in accordance with the Stoller Sampling Procedures for the Young - Rainey STAR Center (DOE 2002) using FDEP procedures. All samples collected were submitted to Severn Trent Laboratories (STL) for analysis. STL is accredited by the Florida Department of Health in accordance with the National Environmental Laboratory Accreditation Conference, certification number E84282. VOCs were analyzed using U.S. Environmental Protection Agency (EPA) Method 8021; arsenic and lead were analyzed using EPA Method 6010.

All but one well were micropurged with dedicated bladder pumps and the samples were collected when the field measurements stabilized. One well, PIN20-M025, was sampled using a peristaltic pump and Teflon tubing. [Table 2](#) lists measurements of pH, specific conductance, dissolved oxygen, oxidation/reduction potential, turbidity, and temperature recorded at the time each sample was collected. These measurements were collected using a flow cell and multiparameter meter.

2.3 Ground Water Analytical Results

Individual contaminants of potential concern (COPC) and total COPCs (TCOPCs) concentrations in samples collected from wells at the 4.5 Acre Site are included in [Table 3](#). The previous four quarters of results are included in [Table 3](#) for comparison. [Figure 4](#) shows the TCOPCs concentrations for October.

No COPCs were detected in samples from the 16 sample locations listed below (results listed in Table 3).

PIN20-0503	PIN20-M023	PIN20-M036	PIN20-M40S
PIN20-M011	PIN20-M024	PIN20-M054	PIN20-M41D
PIN20-M012	PIN20-M025	PIN20-M38D	PIN20-MWL5
PIN20-M015	PIN20-M035	PIN20-M40D	PIN20-MWL6

Samples from 11 sample locations listed below contained COPCs at detectable levels (results listed in Table 3).

PIN20-0502	PIN20-M049	PIN20-M22D	PIN20-MWL3
PIN20-M001	PIN20-M053	PIN20-MWL1	PIN20-MWL4
PIN20-M019	PIN20-M18D	PIN20-MWL2	

The maximum TCOPCs value detected was 3,260 micrograms per liter ($\mu\text{g/L}$) at PIN20-MWL4. The compound detected at the highest concentration in PIN20-MWL4 was cis-1,2-DCE at a concentration of 2,600 $\mu\text{g/L}$. Reported "J" values are not considered in the TCOPC analyte concentrations.

The monitoring wells were also sampled for arsenic and lead (Table 4) as specified in the historical review of COPCs (DOE 2003). Arsenic was detected in two of the 28 wells, PIN20-0502 and PIN20-0503, at 0.024 and 0.022 milligrams per liter (mg/L), respectively. Lead was not detected in any of the wells sampled.

Laboratory reports for quarterly samples collected in October 2003 are provided in Appendix A.

2.4 Quality Assurance/Quality Control

Two duplicate samples were compared to their paired sample and the relative percent differences (RPDs) between the results were calculated. Results of analysis for each duplicate sample are listed in Table 5. From the two duplicate samples, 78 individual compounds were analyzed. The duplicate sample for PIN20-MWL4 failed to meet the guideline that the RPD should be less than 30 percent when the concentration is more than five times the detection limit for vinyl chloride. All other analytes meet the RPD guideline. All data are considered Class A level, indicating that the data may be appropriately used for quantitative and qualitative purposes.

According to the Stoller Sampling Procedures, duplicate samples should be collected at a frequency of one duplicate for every 20 or less samples. There were 27 ground water VOCs, and 28 arsenic and lead samples collected from standard monitoring wells, and two duplicate samples. Therefore, the duplicate criteria were met.

Three trip blanks were submitted for analysis. One trip blank showed positive results for tetrachloroethene with a concentration of 1.6 $\mu\text{g/L}$. The sample batch containing the trip blank was evaluated to determine if tetrachloroethene was present in any other samples. PIN20-0503 also had a positive tetrachloroethene result of 1.5 $\mu\text{g/L}$. Based on EPA guidance for laboratory blanks, the tetrachloroethene results for PIN20-0503 will be "U" qualified in the data validation qualifier field of the SEEPro database since the tetrachloroethene results for this sample were less than five times the amount detected in the trip blank. An estimated quantity of o-xylene that was

above the instrument detection limit but below the reporting limit was also found in the same blank. An estimated quantity of methylene chloride was found in another of the trip blanks.

This quarter the data validation procedures were expanded to include a detailed evaluation of the field data collected during the quarterly sampling event. No significant deficiencies were found. The results were discussed with the field sampling supervisors to improve the next sampling event. A software module for identifying and tracking anomalous ground water data points within the SEEPro database was also developed this quarter. However, because the anomaly detection module is still being tested, it will not be fully implemented until the January 2004 sampling event data is received.

3.0 Operation's Status

Construction Specifications for Interim Remedial Action at the 4.5 Acre Site are out for contractor review. Contractor bids are due back January 23, 2004, with an award by February 5, 2004. Upon review and approval of FDEP, construction should begin in February 2004 and be completed in April 2004.

4.0 Tasks to be Performed Next Quarter

The following tasks are scheduled during the next quarter (January through March 2004).

- Quarterly sampling and analysis of ground water and water level measurements in early October.
- Implement IRA design for short-term ground water recovery action.
- Begin preparation of an addendum to Remedial Action Plan.
- Conduct microbiological testing to determine density of indigenous microbial population.

5.0 References

Florida Department of Environmental Protection (FDEP), 1999. "Corrective Actions for Contamination Site Cases," Appendix to FDEP *Enforcement Manual*, May.

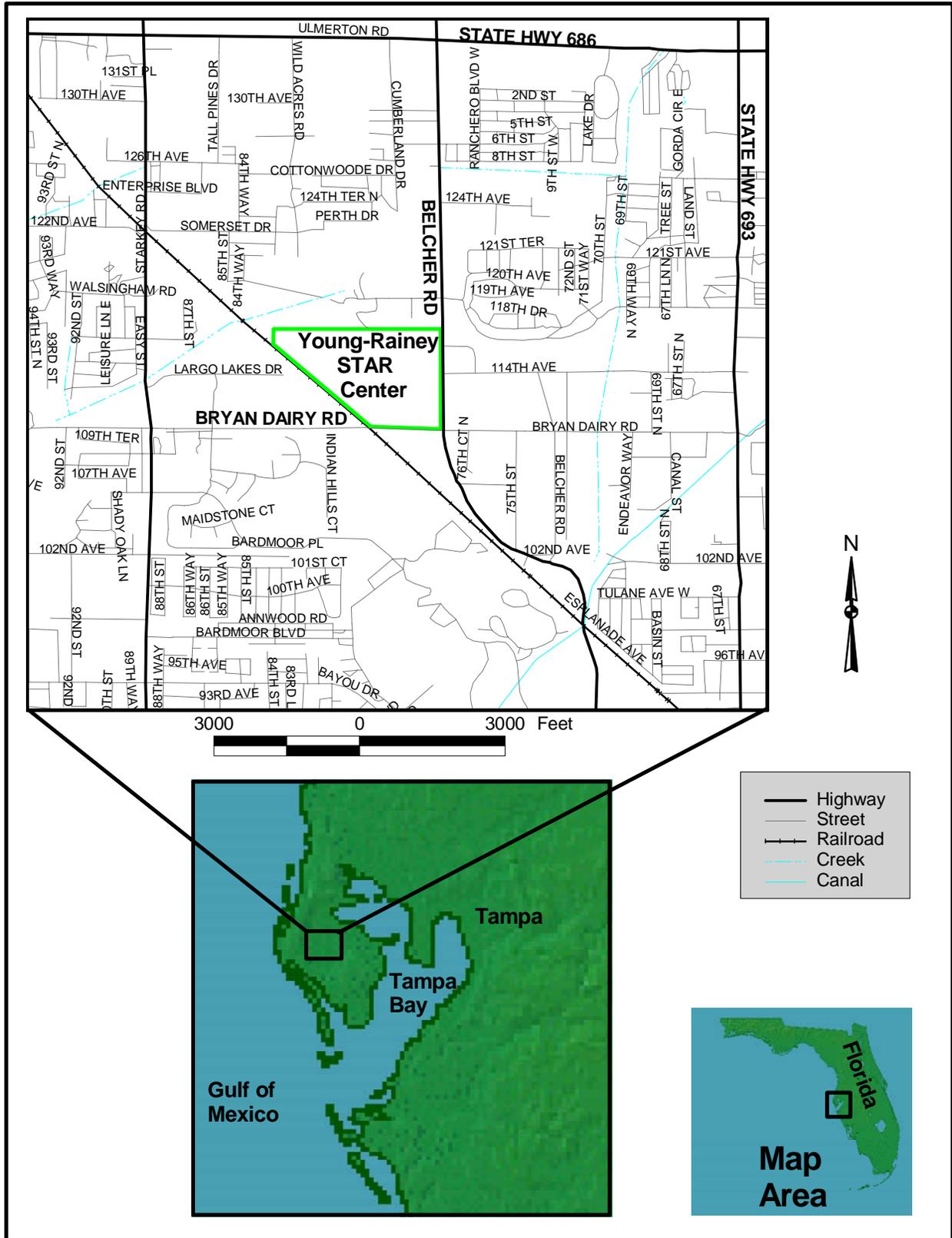
———, 2001. *Remediation Agreement for the Four and One-Half Acre Site in Largo, Pinellas County, Florida*, U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado, January.

U.S. Department of Energy, 2000a. *4.5 Acre Site Biosparge System Integration Plan*, GJO-2000-182-TAR, MAC-PIN 25.5.1.1, prepared by U.S. Department of Energy, Grand Junction Office, Grand Junction, Colorado, December.

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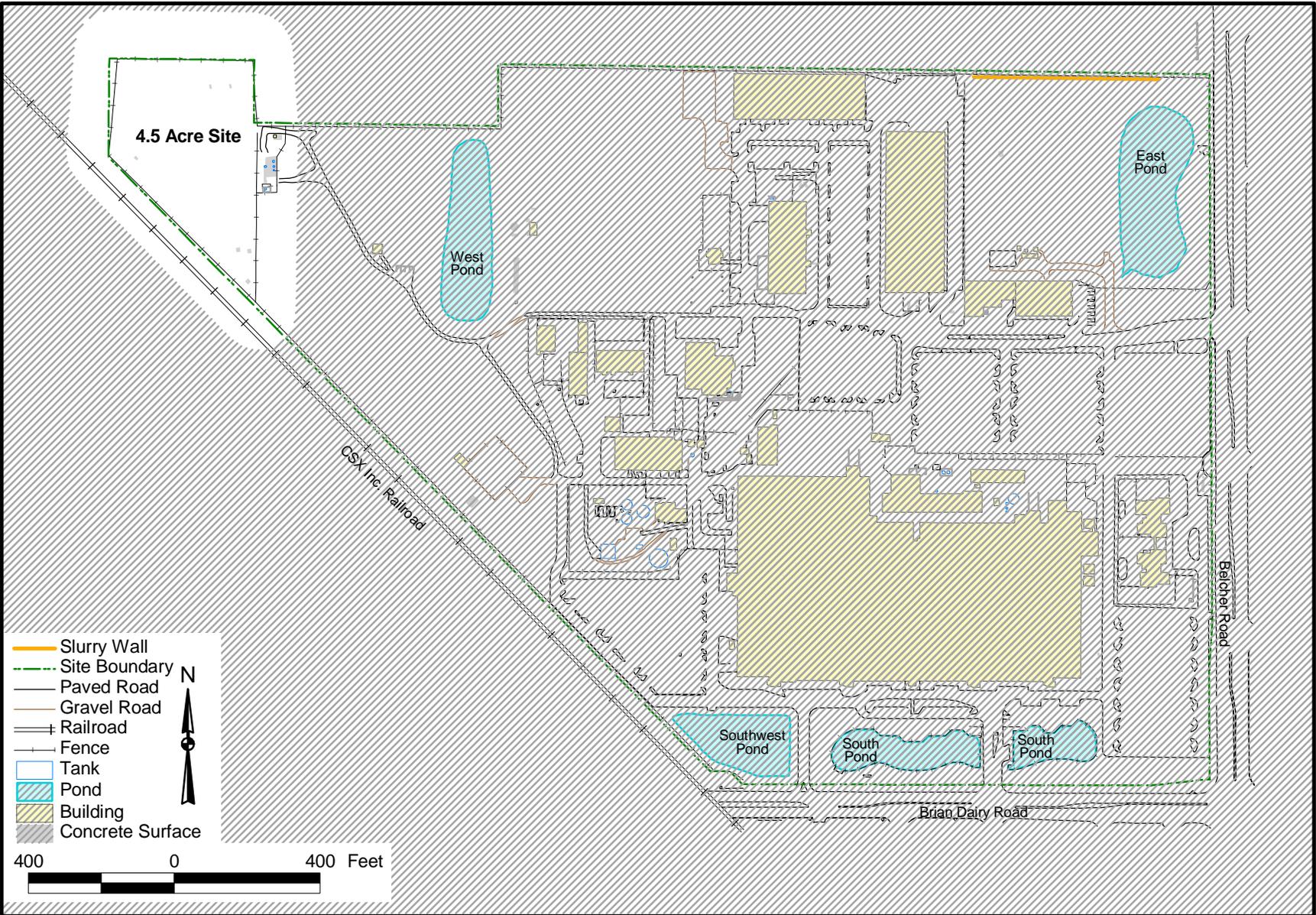
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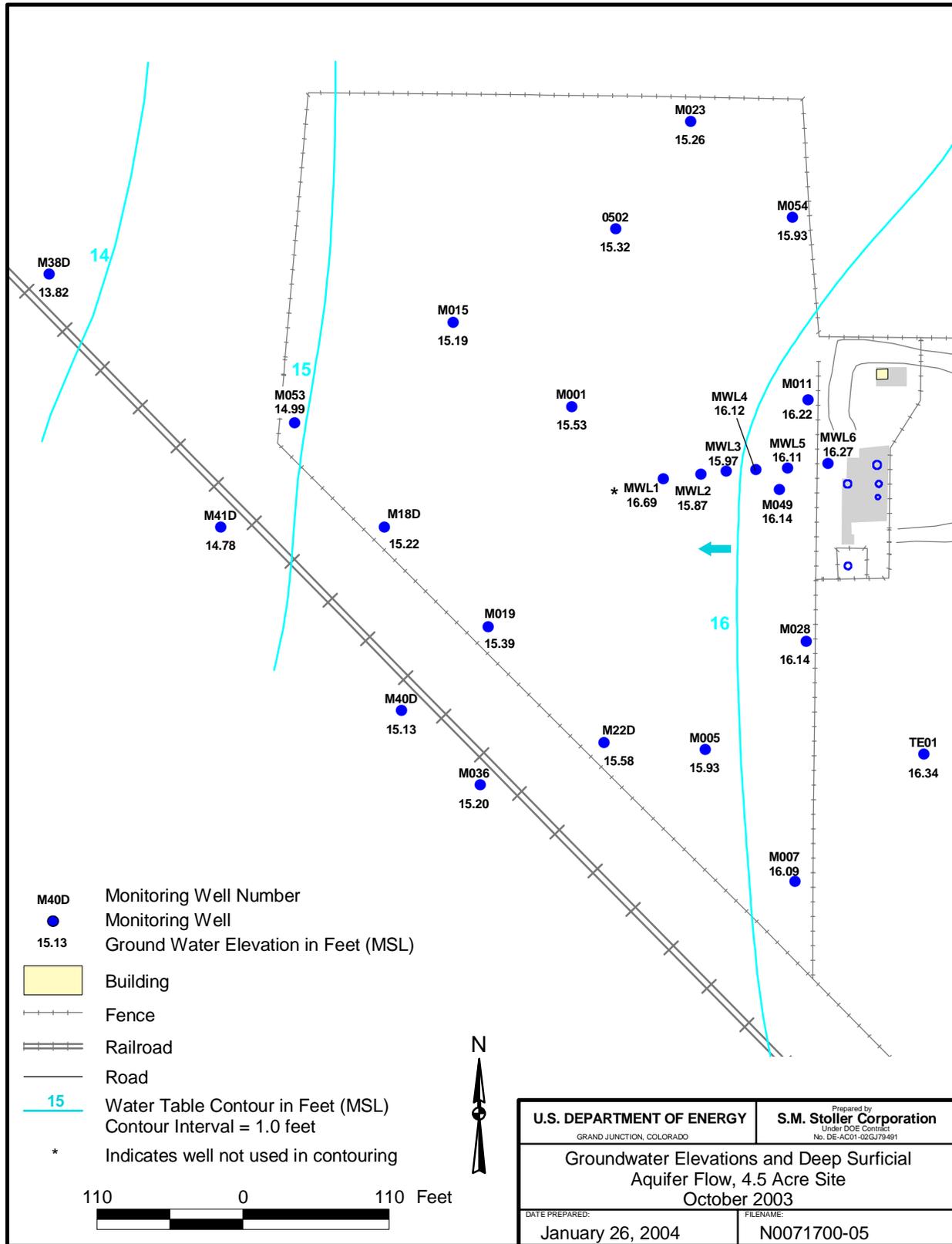
Figure 1. Young - Rainey STAR Center Location



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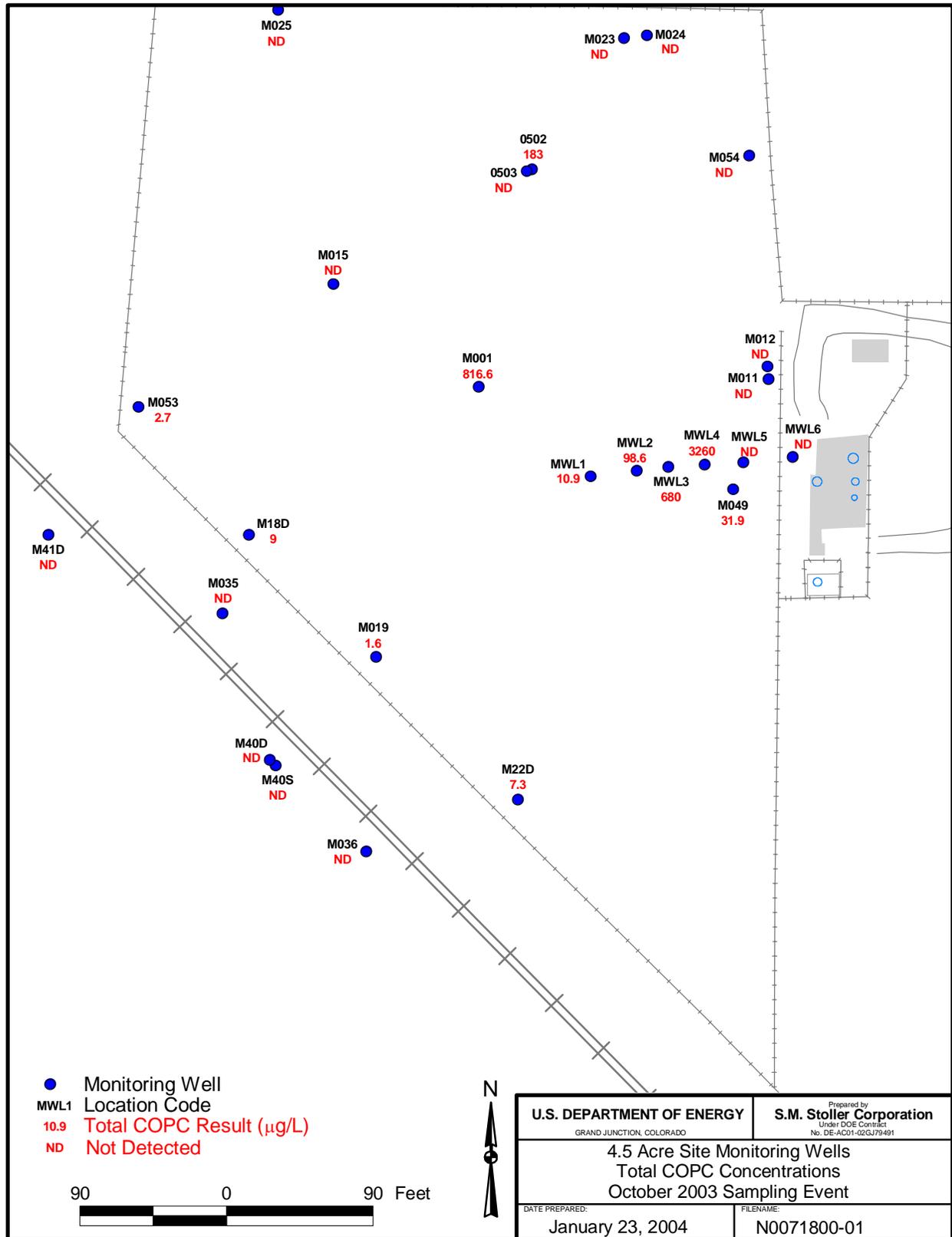
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Figure 2. 4.5 Acre Site Location



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Figure 3. Ground Water Elevations and Deep Surficial Aquifer Flow, 4.5 Acre Site, October 2003



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Figure 4. Monitoring Well Locations with TCOPC Concentrations

Table 1. Water-Level Data at the 4.5 Acre Site

Location	Measurement		Water Depth From Land Surface (ft)	Ground Water Elevation (ft NGVD)
	Date	Time		
PIN02			West Pond	
502D	10/6/2003	09:58	0.74	17.76
W003	10/6/2003	10:08		17.98
PIN05			Trench Site	
0500	10/6/2003	09:47	1.51	16.99
PIN20			4.5 Acre Site	
0502	10/6/2003	08:50	2.08	15.32
0503	10/6/2003	08:50	2.07	15.33
M001	10/6/2003	09:15	2.07	15.53
M003	10/6/2003	09:05	2.26	15.94
M005	10/6/2003	09:04	2.37	15.93
M007	10/6/2003	09:03	3.36	16.09
M011	10/6/2003	09:12	1.88	16.22
M012	10/6/2003	09:12	1.72	16.28
M015	10/6/2003	08:54	2.61	15.19
M019	10/6/2003	08:59	2.61	15.39
M023	10/6/2003	08:47	4.21	15.26
M024	10/6/2003	08:46	2.29	15.51
M025	10/6/2003	08:53	1.84	14.46
M028	10/6/2003	09:08	2.06	16.14
M035	10/7/2003	07:57	3.61	15.19
M036	10/7/2003	08:02	4.10	15.20
M049	10/6/2003	09:10	1.66	16.14
M053	10/6/2003	08:56	2.21	14.99
M054	10/6/2003	08:45	1.77	15.93
M18D	10/6/2003	08:57	2.48	15.22
M22D	10/6/2003	09:01	2.22	15.58
M38D	10/7/2003	07:53	4.68	13.82
M40D	10/7/2003	08:07	4.27	15.13
M40S	10/7/2003	07:59	4.19	15.01
M41D	10/7/2003	07:55	4.32	14.78
MWL1	10/6/2003	09:23	1.55	16.69
MWL2	10/6/2003	09:22	1.90	15.87
MWL3	10/6/2003	09:24	1.73	15.97
MWL4	10/6/2003	09:32	1.62	16.12
MWL5	10/6/2003	09:28	2.46	16.11
MWL6	10/6/2003	09:39	2.18	16.27
TE01	10/6/2003	09:50	1.76	16.34

Table 2. Field Measurements of Samples Collected at the 4.5 Acre Site

Location	Screen Depth (ft bls)	Temperature (°C)	Specific Conductance (µmhos/cm) ^a	Turbidity (NTU)	pH	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
PIN20		4.5 Acre Site					
0502	21.2–31.2	26.38	1,078	57.6	6.59	-72	0.25
0503	13.2–23.2	27.21	1,343	79.8	6.54	-82	0.23
M001	20–25	25.81	1,077	4.76	6.66	-92	1.18
M007	25.3–30.3	25.74	1,072	3.13	5.83	20.6	1.54
M011	23.7–28.7	25.72	863	11.3	6.68	-83	1.48
M012	8.6–13.6	27.09	905	9.7	6.66	-33	1.71
M015	20.8–25.8	26.04	704	6.9	6.81	-79	1.37
M019	22–27	26.31	1,230	1.58	6.58	-82	0.91
M023	19.8–24.8	25.94	713	11.1	6.78	-95	0.3
M024	8.7–13.7	27.3	677	5.27	6.73	-48	0.45
M025	8.6–13.6	25.6	2,756	19.1	6.54	-26	0.49
M035	9–14	25.6	3,029	1.54	6.8	-52	5.41
M036	25–30	25.15	842	1.15	6.75	-92	1.67
M049	20–30	25.22	1,044	6.25	6.7	-97	1.07
M053	20–30	25.81	1,046	38.1	6.8	-111	0.5
M054	20–30	24.9	1,099	92.5	6.74	-116	0.73
M18D	20–30	25.54	1,207	7.35	6.78	-92	0.82
M22D	20–30	25.62	1,274	9.7	6.76	-92	1.17
M38D	20–30	24.62	629	3.06	7.16	-112	0.75
M40D	18–28	25.42	807	15.9	6.86	-120	0.92
M40S	4–14	26.93	309	8.39	6.45	-0.6	0.69
M41D	16–26	25.53	952	1.74	6.81	-115	1.06
MWL1	21–26	25.35	2,177	17.4	6.57	-100	4.67
MWL2	21–26	26.23	1,074	13.1	6.77	-106	0.92
MWL3	21–26	25.56	2,391	7.48	6.45	-87	5.45
MWL4	20.8–25.8	25.47	878	2.62	6.71	-95	1.43
MWL5	20.8–25.8	25.75	898	7.79	6.73	-105	0.57
MWL6	21.5–26.5	25.12	957	17.9	6.72	-107	1.77

^aTemperature corrected to 25°C

Table 3. COPC Concentrations from Wells at the 4.5 Acre Site
(reported in micrograms per liter)

Location	Screen Depth (ft)	Date Sampled	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE ^a	Vinyl chloride	Benzene	Total COPC ^b
FDEP MCL			3	70	100	63	1	1	
PIN05			Trench Site						
0500	2.5–12.5	4/15/2003	<2.5	<2.5	<2.5	ND	<2.5	<2.5	ND
PIN20			4.5 Acre Site						
0502	21.2–31.2	10/8/2002	<1	7.4	<1	7.4	28	<1	35.4
		1/7/2003	<1	23	0.32J	23	66	<1	89
		4/7/2003	0.27J	41	0.29J	41	110	0.18J	151
		7/16/2003	<2.5	61	<2.5	61	110	<2.5	171
		10/7/2003	<2.5	73	<2.5	73	110	<2.5	183
0503	13.2–23.2	10/8/2002	<1	<1	<1	ND	<1	<1	ND
		1/7/2003	<1	<1	<1	ND	<1	<1	ND
		4/7/2003	<1	<1	<1	ND	<1	<1	ND
		7/16/2003	<1	<1	<1	ND	<1	<1	ND
		10/7/2003	<1	<1	<1	ND	<1	<1	ND
M001	20–25	10/9/2002	<1	0.13J	<1	0.13J	2.2	<1	2.2
		1/8/2003	<1	0.55J	<1	0.55J	17	0.69J	17
		4/8/2003	<5	93	0.97J	93	230	<5	323
		7/18/2003	<5	210	6.8	216.8	410	1.7J	626.8
		10/8/2003	<5	320	6.6	326.6	490	<5	816.6
M003	9–14	4/7/2003	<1	<1	<1	ND	<1	<1	ND
M005	25.8–30.7	4/7/2003	<1	<1	<1	ND	<1	<1	ND
M007	25.3–30.3	4/7/2003	<1	<1	<1	ND	<1	<1	ND
M011	23.7–28.7	10/9/2002	<1	<1	<1	ND	<1	<1	ND
		1/8/2003	<1	<1	<1	ND	<1	<1	ND
		4/7/2003	<1	<1	<1	ND	<1	<1	ND
		7/18/2003	<1	<1	<1	ND	<1	<1	ND
		10/9/2003	<1	<1	<1	ND	<1	<1	ND
M012	8.6–13.6	10/9/2002	<1	<1	<1	ND	<1	<1	ND
		1/8/2003	<1	<1	<1	ND	<1	<1	ND
		4/7/2003	<1	<1	<1	ND	<1	<1	ND
		7/18/2003	<1	<1	<1	ND	<1	<1	ND
		10/9/2003	<1	<1	<1	ND	<1	<1	ND
M015	20.8–25.8	10/9/2002	<1	<1	<1	ND	1.4	<1	1.4
		1/7/2003	<1	<1	<1	ND	0.69J	<1	ND
		4/8/2003	<1	<1	<1	ND	1.1	<1	1.1
		7/18/2003	<1	<1	<1	ND	0.61J	<1	ND
		10/9/2003	<1	<1	<1	ND	0.47J	<1	ND
M019	22–27	10/9/2002	<1	<1	<1	ND	<1	<1	ND
		1/8/2003	<1	<1	<1	ND	<1	<1	ND
		4/7/2003	<1	<1	<1	ND	0.29J	<1	ND
		7/16/2003	<1	<1	<1	ND	1.2	<1	1.2
		10/8/2003	<1	<1	<1	ND	1.6	<1	1.6

Table 3 (continued). COPC Concentrations from Wells at the 4.5 Acre Site
(reported in micrograms per liter)

Location	Screen Depth (ft)	Date Sampled	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE ^a	Vinyl chloride	Benzene	Total COPC ^b
FDEP MCL			3	70	100	63	1	1	
M023	19.8–24.8	10/8/2002	<1	<1	<1	ND	<1	<1	ND
		1/7/2003	<1	<1	<1	ND	<1	<1	ND
		4/7/2003	<1	<1	<1	ND	<1	<1	ND
		7/16/2003	<1	<1	<1	ND	<1	<1	ND
		10/7/2003	<1	<1	<1	ND	<1	<1	ND
M024	8.7–13.7	10/8/2002	<1	<1	<1	ND	<1	<1	ND
		1/7/2003	<1	<1	<1	ND	<1	<1	ND
		4/7/2003	<1	<1	<1	ND	<1	<1	ND
		7/16/2003	<1	<1	<1	ND	<1	<1	ND
		10/7/2003	<1	<1	<1	ND	<1	<1	ND
M025	8.6–13.6	10/8/2002	<1	<1	<1	ND	<1	<1	ND
		1/7/2003	<1	<1	<1	ND	<1	0.18J	ND
		4/8/2003	<1	<1	<1	ND	<1	<1	ND
		7/18/2003	<1	<1	<1	ND	<1	<1	ND
		10/7/2003	<1	<1	<1	ND	<1	<1	ND
M028	22–27	4/7/2003	<1	<1	<1	ND	<1	<1	ND
M035	9–14	10/9/2002	<1	<1	<1	ND	<1	<1	ND
		1/8/2003	<1	<1	<1	ND	<1	<1	ND
		4/8/2003	<1	<1	<1	ND	<1	<1	ND
		7/17/2003	<1	<1	<1	ND	<1	<1	ND
		10/10/2003	<1	<1	<1	ND	<1	<1	ND
M036	25–30	10/9/2002	<1	<1	<1	ND	<1	<1	ND
		1/8/2003	<1	<1	<1	ND	<1	<1	ND
		4/8/2003	<1	<1	<1	ND	<1	<1	ND
		7/17/2003	<1	<1	<1	ND	<1	<1	ND
		10/10/2003	<1	<1	<1	ND	<1	<1	ND
M049	20–30	10/9/2002	7	100	5.2	105.2	12	<2.5	124.2
		1/8/2003	3.6	62	5.6	67.6	6.9	<2.5	78.1
		4/8/2003	1.7J	54	4.6	58.6	16	<2.5	74.6
		7/17/2003	<1	28	1.4	29.4	3.5	<1	32.9
		10/8/2003	<1	24	<1	24	7.9	<1	31.9
M053	20–30	10/9/2002	1.7	<1	<1	ND	<1	<1	1.7
		1/7/2003	<1	<1	<1	ND	2	<1	2
		4/7/2003	<1	<1	<1	ND	3.3	<1	3.3
		7/16/2003	<1	<1	<1	ND	2.6	<1	2.6
		10/8/2003	<1	<1	<1	ND	2.7	<1	2.7
M054	20–30	10/8/2002	<1	<1	<1	ND	<1	<1	ND
		1/7/2003	<1	<1	<1	ND	<1	<1	ND
		4/7/2003	<1	<1	<1	ND	<1	<1	ND
		7/16/2003	<1	<1	<1	ND	<1	<1	ND
		10/8/2003	<1	<1	<1	ND	<1	<1	ND

Table 3 (continued). COPC Concentrations from Wells at the 4.5 Acre Site
(reported in micrograms per liter)

Location	Screen Depth (ft)	Date Sampled	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE ^a	Vinyl chloride	Benzene	Total COPC ^b
FDEP MCL			3	70	100	63	1	1	
M18D	20-30	10/9/2002	<1	1.1	<1	1.1	1.7	<1	2.8
		1/7/2003	<1	1	<1	1	2.4	<1	3.4
		4/8/2003	<1	1.6	<1	1.6	4.9	<1	6.5
		7/16/2003	<1	3.2	<1	3.2	2.7	<1	5.9
		10/8/2003	<1	5.2	<1	5.2	3.8	<1	9
M22D	20-30	10/9/2002	<1	<1	<1	ND	0.41J	<1	ND
		1/7/2003	<1	<1	<1	ND	1.8	<1	1.8
		4/7/2003	<1	<1	<1	ND	8	<1	8
		7/18/2003	<1	<1	<1	ND	24	<1	24
		10/8/2003	<1	<1	<1	ND	7.3	<1	7.3
M38D	20-30	4/8/2003	<1	<1	<1	ND	<1	<1	ND
		7/17/2003	<1	<1	<1	ND	<1	<1	ND
		10/9/2003	<1	<1	<1	ND	<1	<1	ND
M40D	18-28	10/9/2002	<1	<1	<1	ND	<1	<1	ND
		4/8/2003	<1	<1	<1	ND	<1	<1	ND
		7/17/2003	<1	<1	<1	ND	<1	<1	ND
		10/9/2003	<1	<1	<1	ND	<1	<1	ND
M40S	4-14	10/9/2002	0.6J	<1	<1	ND	<1	<1	ND
		4/8/2003	<1	<1	<1	ND	<1	<1	ND
		7/17/2003	<1	<1	<1	ND	<1	<1	ND
		10/10/2003	<1	<1	<1	ND	<1	<1	ND
M41D	16-26	10/9/2002	<1	<1	<1	ND	<1	<1	ND
		4/9/2003	<1	<1	<1	ND	<1	<1	ND
		7/18/2003	<1	<1	<1	ND	<1	<1	ND
		10/9/2003	<1	<1	<1	ND	<1	<1	ND
MWL1	21-26	1/8/2003	0.26J	1.5	<1	1.5	4.4	7	12.9
		4/8/2003	<1	0.3J	<1	0.3J	6.1	5.3	11.4
		7/17/2003	<1	<1	<1	ND	3.6	6.7	10.3
		10/9/2003	<1	<1	<1	ND	4.1	6.8	10.9
MWL2	21-26	1/8/2003	0.89J	4.6	0.57J	4.6	18	1.6	24.2
		4/8/2003	<1	0.9J	0.21J	1.11J	25	1.4	26.4
		7/17/2003	<1	2	0.8J	2	41	1.4	44.4
		10/9/2003	<1	9.5	4.2	13.7	82	2.9	98.6
MWL3	21-26	1/8/2003	2.5	11	0.4J	11	14	<1	27.5
		4/8/2003	<1	0.27J	<1	0.27J	3.8	0.15J	3.8
		7/17/2003	<10	<10	<10	ND	640	<10	640
		10/9/2003	<10	<10	<10	ND	680	<10	680
MWL4	20.8-25.8	1/8/2003	49J	5,400	<100	5,400	570	<100	5,970
		4/8/2003	240	8,200	140	8,340	1,700	<100	10,280
		7/17/2003	110	4,000	43J	4,000	870	<50	4,980
		10/9/2003	<50	2,600	13J	2,600	660	<50	3,260

Table 3 (continued). COPC Concentrations from Wells at the 4.5 Acre Site
(reported in micrograms per liter)

Location	Screen Depth (ft)	Date Sampled	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE ^a	Vinyl chloride	Benzene	Total COPC ^b
FDEP MCL			3	70	100	63	1	1	
MWL5	20.8–25.8	1/8/2003	<1	<1	<1	ND	<1	<1	ND
		4/8/2003	<1	1.3	<1	1.3	<1	0.19J	1.3
		7/17/2003	<1	<1	<1	ND	<1	<1	ND
		10/8/2003	<1	<1	<1	ND	<1	<1	ND
MWL6	21.5–26.5	1/8/2003	<1	<1	<1	ND	<1	<1	ND
		4/8/2003	<1	0.25J	<1	0.25J	<1	0.2J	ND
		7/17/2003	<1	<1	<1	ND	<1	<1	ND
		10/10/2003	<1	<1	<1	ND	<1	<1	ND

^aTotal 1,2-DCE is the sum of cis-1,2-DCE and trans-1,2-DCE.

^bTotal COPC is the sum of the individual COPC concentrations. The cis-1,2-DCE and trans-1,2-DCE values are not part of the total COPC value because these values are included in the total 1,2-DCE value. "J" values are not included in the total COPC value.

ND = Not detected.

J = Estimated value, result is between the reporting limit and the method detection limit.

*Table 4. Arsenic and Lead in Samples Collected at the 4.5 Acre Site
(reported in milligrams per liter)*

Location	Screen Depth (ft bls)	Date Sampled	Arsenic	Lead
PIN20		4.5 Acre Site		
0502	21.2–31.2	10/7/2003	0.024	<0.005
0503	13.2–23.2	10/7/2003	0.022	0.0025J
M001	20–25	10/8/2003	<0.01	<0.005
M007	25.3–30.3	10/8/2003	<0.01	0.0033J
M011	23.7–28.7	10/9/2003	<0.01	<0.005
M012	8.6–13.6	10/9/2003	0.0041J	<0.005
M015	20.8–25.8	10/9/2003	<0.01	<0.005
M019	22–27	10/8/2003	<0.01	<0.005
M023	19.8–24.8	10/7/2003	0.0035J	<0.005
M024	8.7–13.7	10/7/2003	0.0058J	<0.005
M025	8.6–13.6	10/7/2003	0.0054J	<0.005
M035	9–14	10/10/2003	0.0042J	<0.005
M036	25–30	10/10/2003	<0.01	<0.005
M049	20–30	10/8/2003	0.0052J	0.0021J
M053	20–30	10/8/2003	<0.01	<0.005
M054	20–30	10/8/2003	<0.01	0.0022J
M18D	20–30	10/8/2003	<0.01	<0.005
M22D	20–30	10/8/2003	<0.01	<0.005
M38D	20–30	10/9/2003	<0.01	<0.005
M40D	18–28	10/9/2003	<0.01	<0.005
M40S	4–14	10/10/2003	0.0041J	<0.005
M41D	16–26	10/9/2003	0.0034J	<0.005
MWL1	21–26	10/9/2003	<0.01	<0.005
MWL2	21–26	10/9/2003	<0.01	<0.005
MWL3	21–26	10/9/2003	0.0045J	<0.005
MWL4	20.8–25.8	10/9/2003	<0.01	<0.005
MWL5	20.8–25.8	10/8/2003	<0.01	<0.005
MWL6	21.5–26.5	10/10/2003	0.0033J	<0.005

J = Estimated value, result is between the reporting limit and the method detection limit.

Table 5. RPD for Duplicate Samples, 4.5 Acre Site

Sample ID	Duplicate ID	Case Number	Constituent	S ^a	D ^b	RPD Value	5 times DL ^c	Fail ^d
PIN20-M035	PIN20-0550	B353945	Arsenic	0.0042	0.0047	11.2	0.05	
PIN20-MWL4	PIN20-0551	B353945	cis-1,2-Dichloroethene	2,600	2,000	26.1	125	
			Propane, 2-methoxy-2-methyl-	250	250	0.0	1250	
			trans-1,2-Dichloroethene	13	18	32.3	125	
			Vinyl chloride	660	440	40.0	125	Fail

^aS = Original sample (N001), VOC concentration in µg/L.

^bD = Duplicate sample (N002), VOC concentration in µg/L.

^cDL = Detection limit.

^dFail is an RPD greater than 30% and an original or duplicate sample more than 5 times the detection limit.

Appendix A

Laboratory Reports—October 2003 Quarterly Results

Case Narrative: STL Project B353909

Date: October 22, 2003

Client: S. M. Stoller Corporation

Project: Pinellas Star Center

Laboratory: STL Tampa

Analysis Requested: 8021, Arsenic, Lead

Ten liquid samples were received on October 8, 2003 and logged in as STL Project B353909. The samples are identified as follows:

STL Log No.	Sample ID	Date Collected
B353909-1	PIN20-0552-N001 <i>trip blank</i>	10.07.03
B353909-2	PIN20-M024-N001	10.07.03
B353909-3	PIN20-M023-N001	10.07.03
B353909-4	PIN20-M025-N001	10.07.03
B353909-5	PIN20-0502-N001	10.07.03
B353909-6	PIN20-0503-N001	10.07.03
B353909-7	PIN20-M054-N001	10.08.03
B353909-8	PIN20-M053-N001	10.08.03
B353909-9	PIN20-M18D-N001	10.08.03
B353909-10	PIN20-M019-N001	10.08.03

No QA/QC issues were noted.


 Nancy Robertson, Project Manager

Positive Results Summary Report

For: Mr. Paul Darr
S.M. Stoller Corporation
2597 B-3/4 Road
Grand Junction, CO 81503
CC:

Order Number: B353909
SDG Number:
Client Project ID:
Project: Pinellas Star Center
Report Date: 10/22/2003
Sampled By: Client
Sample Received Date: 10/08/2003
Requisition Number:
Purchase Order: 20742



Nancy Robertson, Project Manager
nrobertson@stl-inc.com

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Sample Summary

Order: B353909
Date Received: 10/08/2003

Client: S.M. Stoller Corporation
Project: Pinellas Star Center

Client Sample ID	Lab Sample ID	Matrix	Date Sampled
PIN20-0552-N001	B353909*1	Liquid	10/07/2003 13:00
PIN20-M024-N001	B353909*2	Liquid	10/07/2003 13:08
PIN20-M023-N001	B353909*3	Liquid	10/07/2003 13:40
PIN20-M025-N001	B353909*4	Liquid	10/07/2003 14:06
PIN20-0502-N001	B353909*5	Liquid	10/07/2003 14:52
PIN20-0503-N001	B353909*6	Liquid	10/07/2003 15:50
PIN20-M054-N001	B353909*7	Liquid	10/08/2003 08:50
PIN20-M053-N001	B353909*8	Liquid	10/08/2003 09:48
PIN20-M18D-N001	B353909*9	Liquid	10/08/2003 10:20
PIN20-M019-N001	B353909*10	Liquid	10/08/2003 11:02

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53909-1	PIN20-0552-N001	Liquid	10/08/03	10/07/03 13:00	

Lab Sample IDs

Parameter	Units	53909-1
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Halogenated and Aromatic Volatiles (8021)

Tetrachloroethene	ug/l	1.6
o-Xylene	ug/l	0.82J
Total Volatile Organic Aromatics	ug/l	0.82J

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53909-2	PIN20-M024-N001	Liquid	10/08/03	10/07/03 13:08	
53909-3	PIN20-M023-N001	Liquid	10/08/03	10/07/03 13:40	
53909-4	PIN20-M025-N001	Liquid	10/08/03	10/07/03 14:06	
53909-5	PIN20-0502-N001	Liquid	10/08/03	10/07/03 14:52	
53909-6	PIN20-0503-N001	Liquid	10/08/03	10/07/03 15:50	

Parameter	Units	Lab Sample IDs				
		53909-2	53909-3	53909-4	53909-5	53909-6

Halogenated and Aromatic Volatiles (8021)

cis-1,2-Dichloroethene	ug/l			73		
Vinyl chloride	ug/l			110		
Tetrachloroethene	ug/l					1.5

Arsenic (6010)

Arsenic	mg/l	0.0058J	0.0035J	0.0054J	0.024	0.022
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Lead (6010)

Lead	mg/l					0.0025J
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Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53909-7	PIN20-M054-N001	Liquid	10/08/03	10/08/03 08:50	
53909-8	PIN20-M053-N001	Liquid	10/08/03	10/08/03 09:48	
53909-9	PIN20-M18D-N001	Liquid	10/08/03	10/08/03 10:20	
53909-10	PIN20-M019-N001	Liquid	10/08/03	10/08/03 11:02	

Parameter	Units	Lab Sample IDs			
		53909-7	53909-8	53909-9	53909-10

Halogenated and Aromatic Volatiles (8021)					
Vinyl chloride	ug/l		2.7	3.8	1.6
cis-1,2-Dichloroethene	ug/l			5.2	
o-Xylene	ug/l				0.80J
Total Volatile Organic Aromatics	ug/l				0.80J
Lead (6010)					
Lead	mg/l	0.0022J			

Method: EPA SW-846

DOH Certification #E84282

U = Indicates that the compound was analyzed for but not detected.

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL project manager who signed this test report.

The estimated uncertainty associated with these reported results is available upon request.

J = The flag "J" indicates the presence of a compound that meets the identification criteria, but the result is less than the sample RL and greater than the MDL.

Analytical Report

For: Mr. Paul Darr
S.M. Stoller Corporation
2597 B-3/4 Road
Grand Junction, CO 81503

CC:

Order Number: B353909

SDG Number:

Client Project ID:

Project: Pinellas Star Center

Report Date: 10/22/2003

Sampled By: Client

Sample Received Date: 10/08/2003

Requisition Number:

Purchase Order: 20742



Nancy Robertson, Project Manager
nrobertson@stl-inc.com

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Sample Summary

Order: B353909
Date Received: 10/08/2003

Client: S.M. Stoller Corporation
Project: Pinellas Star Center

Client Sample ID	Lab Sample ID	Matrix	Date Sampled
PIN20-0552-N001	B353909*1	Liquid	10/07/2003 13:00
PIN20-M024-N001	B353909*2	Liquid	10/07/2003 13:08
PIN20-M023-N001	B353909*3	Liquid	10/07/2003 13:40
PIN20-M025-N001	B353909*4	Liquid	10/07/2003 14:06
PIN20-0502-N001	B353909*5	Liquid	10/07/2003 14:52
PIN20-0503-N001	B353909*6	Liquid	10/07/2003 15:50
PIN20-M054-N001	B353909*7	Liquid	10/08/2003 08:50
PIN20-M053-N001	B353909*8	Liquid	10/08/2003 09:48
PIN20-M18D-N001	B353909*9	Liquid	10/08/2003 10:20
PIN20-M019-N001	B353909*10	Liquid	10/08/2003 11:02

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53909-1	PIN20-0552-N001	Liquid	10/08/03	10/07/03 13:00	

Lab Sample IDs

Parameter	Units	53909-1
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Halogenated and Aromatic Volatiles (8021)

Benzene	ug/l	1.0U
Bromodichloromethane	ug/l	1.0U
Bromoform	ug/l	5.0U
Bromomethane (Methyl bromide)	ug/l	1.0U
Carbon tetrachloride	ug/l	1.0U
Chlorobenzene	ug/l	1.0U
Chloroethane	ug/l	1.0U
Chloroform	ug/l	1.0U
Chloromethane	ug/l	1.0U
Dibromochloromethane	ug/l	1.0U
1,2-Dichlorobenzene	ug/l	1.0U
1,3-Dichlorobenzene	ug/l	1.0U
1,4-Dichlorobenzene	ug/l	1.0U
Dichlorodifluoromethane	ug/l	1.0U
1,1-Dichloroethane	ug/l	1.0U
1,2-Dichloroethane	ug/l	1.0U
1,1-Dichloroethene	ug/l	1.0U
cis-1,2-Dichloroethene	ug/l	1.0U
trans-1,2-Dichloroethene	ug/l	1.0U
1,2-Dichloropropane	ug/l	1.0U
cis-1,3-Dichloropropene	ug/l	1.0U
trans-1,3-Dichloropropene	ug/l	1.0U
Ethylbenzene	ug/l	1.0U
Methylene chloride (Dichloromethane)	ug/l	5.0U
1,1,2,2-Tetrachloroethane	ug/l	1.0U
Tetrachloroethene	ug/l	1.6
Toluene	ug/l	1.0U
1,1,1-Trichloroethane	ug/l	1.0U
1,1,2-Trichloroethane	ug/l	1.0U
Trichloroethene	ug/l	1.0U
Trichlorofluoromethane	ug/l	1.0U
Vinyl chloride	ug/l	1.0U
o-Xylene	ug/l	0.82U
m&p-Xylene	ug/l	1.0U
2-Chloroethylvinyl ether	ug/l	10U

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53909-1	PIN20-0552-N001	Liquid	10/08/03	10/07/03 13:00	

Lab Sample IDs

Parameter	Units	53909-1
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Halogenated and Aromatic Volatiles (8021)

Methyl Tert Butyl Ether (MTBE)	ug/l	10U
Total Volatile Organic		
Aromatics	ug/l	0.82J
Dilution Factor		1
Analysis Date		10/14/03
Analysis Time		15:54
Batch ID		1014B
Quantitation Factor		1.000

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53909-2	PIN20-M024-N001	Liquid	10/08/03	10/07/03 13:08	
53909-3	PIN20-M023-N001	Liquid	10/08/03	10/07/03 13:40	
53909-4	PIN20-M025-N001	Liquid	10/08/03	10/07/03 14:06	
53909-5	PIN20-0502-N001	Liquid	10/08/03	10/07/03 14:52	
53909-6	PIN20-0503-N001	Liquid	10/08/03	10/07/03 15:50	

Parameter	Units	Lab Sample IDs				
		53909-2	53909-3	53909-4	53909-5	53909-6

Halogenated and Aromatic Volatiles (8021)

Benzene	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
Bromodichloromethane	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
Bromoform	ug/l	5.0U	5.0U	5.0U	12U	5.0U
Bromomethane (Methyl bromide)	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
Carbon tetrachloride	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
Chlorobenzene	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
Chloroethane	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
Chloroform	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
Chloromethane	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
Dibromochloromethane	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
1,2-Dichlorobenzene	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
1,3-Dichlorobenzene	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
1,4-Dichlorobenzene	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
Dichlorodifluoromethane	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
1,1-Dichloroethane	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
1,2-Dichloroethane	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
1,1-Dichloroethene	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
cis-1,2-Dichloroethene	ug/l	1.0U	1.0U	1.0U	73	1.0U
trans-1,2-Dichloroethene	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
1,2-Dichloropropane	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
cis-1,3-Dichloropropene	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
trans-1,3-Dichloropropene	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
Ethylbenzene	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
Methylene chloride (Dichloromethane)	ug/l	5.0U	5.0U	5.0U	12U	5.0U
1,1,2,2-Tetrachloroethane	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
Tetrachloroethene	ug/l	1.0U	1.0U	1.0U	2.5U	1.5
Toluene	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
1,1,1-Trichloroethane	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
1,1,2-Trichloroethane	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
Trichloroethene	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
Trichlorofluoromethane	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53909-2	PIN20-M024-N001	Liquid	10/08/03	10/07/03 13:08	
53909-3	PIN20-M023-N001	Liquid	10/08/03	10/07/03 13:40	
53909-4	PIN20-M025-N001	Liquid	10/08/03	10/07/03 14:06	
53909-5	PIN20-0502-N001	Liquid	10/08/03	10/07/03 14:52	
53909-6	PIN20-0503-N001	Liquid	10/08/03	10/07/03 15:50	

Parameter	Units	Lab Sample IDs				
		53909-2	53909-3	53909-4	53909-5	53909-6

Halogenated and Aromatic Volatiles (8021)

Vinyl chloride	ug/l	1.0U	1.0U	1.0U	110	1.0U
o-Xylene	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
m&p-Xylene	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
2-Chloroethylvinyl ether	ug/l	10U	10U	10U	25U	10U
Methyl Tert Butyl Ether (MTBE)	ug/l	10U	10U	10U	25U	10U
Total Volatile Organic						
Aromatics	ug/l	1.0U	1.0U	1.0U	2.5U	1.0U
Dilution Factor		1	1	1	2.5	1
Analysis Date		10/14/03	10/14/03	10/14/03	10/14/03	10/14/03
Analysis Time		16:33	17:12	17:51	18:31	19:10
Batch ID		1014B	1014B	1014B	1014B	1014B
Quantitation Factor		1.000	1.000	1.000	2.500	1.000

Arsenic (6010)

Arsenic	mg/l	0.0058J	0.0035J	0.0054J	0.024	0.022
Dilution Factor		1	1	1	1	1
Prep Date		10/10/03	10/10/03	10/10/03	10/10/03	10/10/03
Prep Time		20:24	20:24	20:24	20:24	20:24
Analysis Date		10/20/03	10/20/03	10/20/03	10/20/03	10/21/03
Analysis Time		09:49	10:08	10:15	10:21	12:20
Batch ID		1010K	1010K	1010K	1010K	1010K
Quantitation Factor		1.000	1.000	1.000	1.000	1.000

Lead (6010)

Lead	mg/l	0.0050U	0.0050U	0.0050U	0.0050U	0.0025J
Dilution Factor		1	1	1	1	1
Prep Date		10/10/03	10/10/03	10/10/03	10/10/03	10/10/03
Prep Time		20:24	20:24	20:24	20:24	20:24
Analysis Date		10/20/03	10/20/03	10/20/03	10/20/03	10/21/03
Analysis Time		09:49	10:08	10:15	10:21	12:20
Batch ID		1010K	1010K	1010K	1010K	1010K
Quantitation Factor		1.000	1.000	1.000	1.000	1.000

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53909-7	PIN20-M054-N001	Liquid	10/08/03	10/08/03 08:50	
53909-8	PIN20-M053-N001	Liquid	10/08/03	10/08/03 09:48	
53909-9	PIN20-M18D-N001	Liquid	10/08/03	10/08/03 10:20	
53909-10	PIN20-M019-N001	Liquid	10/08/03	10/08/03 11:02	

Parameter	Units	Lab Sample IDs			
		53909-7	53909-8	53909-9	53909-10
Halogenated and Aromatic Volatiles (8021)					
Benzene	ug/l	1.0U	1.0U	1.0U	1.0U
Bromodichloromethane	ug/l	1.0U	1.0U	1.0U	1.0U
Bromoform	ug/l	5.0U	5.0U	5.0U	5.0U
Bromomethane (Methyl bromide)	ug/l	1.0U	1.0U	1.0U	1.0U
Carbon tetrachloride	ug/l	1.0U	1.0U	1.0U	1.0U
Chlorobenzene	ug/l	1.0U	1.0U	1.0U	1.0U
Chloroethane	ug/l	1.0U	1.0U	1.0U	1.0U
Chloroform	ug/l	1.0U	1.0U	1.0U	1.0U
Chloromethane	ug/l	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	ug/l	1.0U	1.0U	1.0U	1.0U
1,2-Dichlorobenzene	ug/l	1.0U	1.0U	1.0U	1.0U
1,3-Dichlorobenzene	ug/l	1.0U	1.0U	1.0U	1.0U
1,4-Dichlorobenzene	ug/l	1.0U	1.0U	1.0U	1.0U
Dichlorodifluoromethane	ug/l	1.0U	1.0U	1.0U	1.0U
1,1-Dichloroethane	ug/l	1.0U	1.0U	1.0U	1.0U
1,2-Dichloroethane	ug/l	1.0U	1.0U	1.0U	1.0U
1,1-Dichloroethene	ug/l	1.0U	1.0U	1.0U	1.0U
cis-1,2-Dichloroethene	ug/l	1.0U	1.0U	5.2	1.0U
trans-1,2-Dichloroethene	ug/l	1.0U	1.0U	1.0U	1.0U
1,2-Dichloropropane	ug/l	1.0U	1.0U	1.0U	1.0U
cis-1,3-Dichloropropene	ug/l	1.0U	1.0U	1.0U	1.0U
trans-1,3-Dichloropropene	ug/l	1.0U	1.0U	1.0U	1.0U
Ethylbenzene	ug/l	1.0U	1.0U	1.0U	1.0U
Methylene chloride					
(Dichloromethane)	ug/l	5.0U	5.0U	5.0U	5.0U
1,1,2,2-Tetrachloroethane	ug/l	1.0U	1.0U	1.0U	1.0U
Tetrachloroethene	ug/l	1.0U	1.0U	1.0U	1.0U
Toluene	ug/l	1.0U	1.0U	1.0U	1.0U
1,1,1-Trichloroethane	ug/l	1.0U	1.0U	1.0U	1.0U
1,1,2-Trichloroethane	ug/l	1.0U	1.0U	1.0U	1.0U
Trichloroethene	ug/l	1.0U	1.0U	1.0U	1.0U
Trichlorofluoromethane	ug/l	1.0U	1.0U	1.0U	1.0U
Vinyl chloride	ug/l	1.0U	2.7	3.8	1.6

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53909-7	PIN20-M054-N001	Liquid	10/08/03	10/08/03 08:50	
53909-8	PIN20-M053-N001	Liquid	10/08/03	10/08/03 09:48	
53909-9	PIN20-M18D-N001	Liquid	10/08/03	10/08/03 10:20	
53909-10	PIN20-M019-N001	Liquid	10/08/03	10/08/03 11:02	

Parameter	Units	Lab Sample IDs			
		53909-7	53909-8	53909-9	53909-10

Halogenated and Aromatic Volatiles (8021)

o-Xylene	ug/l	1.0U	1.0U	1.0U	0.80J
m&p-Xylene	ug/l	1.0U	1.0U	1.0U	1.0U
2-Chloroethylvinyl ether	ug/l	10U	10U	10U	10U
Methyl Tert Butyl Ether (MTBE)	ug/l	10U	10U	10U	10U
Total Volatile Organic					
Aromatics	ug/l	1.0U	1.0U	1.0U	0.80J
Dilution Factor		1	1	1	1
Analysis Date		10/14/03	10/14/03	10/14/03	10/15/03
Analysis Time		19:49	20:28	23:44	00:23
Batch ID		1014B	1014B	1014B	1014B
Quantitation Factor		1.000	1.000	1.000	1.000

Arsenic (6010)

Arsenic	mg/l	0.010U	0.010U	0.010U	0.010U
Dilution Factor		1	1	1	1
Prep Date		10/10/03	10/10/03	10/10/03	10/10/03
Prep Time		20:24	20:24	20:24	20:24
Analysis Date		10/21/03	10/21/03	10/21/03	10/21/03
Analysis Time		12:27	12:33	12:39	12:46
Batch ID		1010K	1010K	1010K	1010K
Quantitation Factor		1.000	1.000	1.000	1.000

Lead (6010)

Lead	mg/l	0.0022J	0.0050U	0.0050U	0.0050U
Dilution Factor		1	1	1	1
Prep Date		10/10/03	10/10/03	10/10/03	10/10/03
Prep Time		20:24	20:24	20:24	20:24
Analysis Date		10/21/03	10/21/03	10/21/03	10/21/03
Analysis Time		12:27	12:33	12:39	12:46
Batch ID		1010K	1010K	1010K	1010K
Quantitation Factor		1.000	1.000	1.000	1.000

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53909-11	Method Blank	Liquid	10/08/03		
53909-12	LCS % Recovery	Liquid	10/08/03		
53909-13	LCSD % Recovery	Liquid	10/08/03		
53909-14	PIN20-M024-N001-MS % Recovery	Liquid	10/08/03	10/07/03	
53909-15	PIN20-M024-N001-MSD % Recovery	Liquid	10/08/03	10/07/03	

Parameter	Units	Lab Sample IDs				
		53909-11	53909-12	53909-13	53909-14	53909-15
Halogenated and Aromatic Volatiles (8021)						
Benzene	ug/l	1.0U	91 %	83 %	88 %	91 %
Bromodichloromethane	ug/l	1.0U				
Bromoform	ug/l	5.0U				
Bromomethane (Methyl bromide)	ug/l	1.0U				
Carbon tetrachloride	ug/l	1.0U				
Chlorobenzene	ug/l	1.0U	79 %	81 %	84 %	88 %
Chloroethane	ug/l	1.0U				
Chloroform	ug/l	1.0U				
Chloromethane	ug/l	1.0U				
Dibromochloromethane	ug/l	1.0U				
1,2-Dichlorobenzene	ug/l	1.0U				
1,3-Dichlorobenzene	ug/l	1.0U				
1,4-Dichlorobenzene	ug/l	1.0U				
Dichlorodifluoromethane	ug/l	1.0U				
1,1-Dichloroethane	ug/l	1.0U				
1,2-Dichloroethane	ug/l	1.0U				
1,1-Dichloroethene	ug/l	1.0U	92 %	88 %	98 %	100 %
cis-1,2-Dichloroethene	ug/l	1.0U				
trans-1,2-Dichloroethene	ug/l	1.0U				
1,2-Dichloropropane	ug/l	1.0U				
cis-1,3-Dichloropropene	ug/l	1.0U				
trans-1,3-Dichloropropene	ug/l	1.0U				
Ethylbenzene	ug/l	1.0U				
Methylene chloride (Dichloromethane)	ug/l	5.0U				
1,1,2,2-Tetrachloroethane	ug/l	1.0U				
Tetrachloroethene	ug/l	1.0U				
Toluene	ug/l	1.0U	80 %	80 %	88 %	94 %
1,1,1-Trichloroethane	ug/l	1.0U				
1,1,2-Trichloroethane	ug/l	1.0U				
Trichloroethene	ug/l	1.0U	78 %	79 %	82 %	86 %
Trichlorofluoromethane	ug/l	1.0U				

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53909-11	Method Blank	Liquid	10/08/03		
53909-12	LCS % Recovery	Liquid	10/08/03		
53909-13	LCSD % Recovery	Liquid	10/08/03		
53909-14	PIN20-M024-N001-MS % Recovery	Liquid	10/08/03	10/07/03	
53909-15	PIN20-M024-N001-MSD % Recovery	Liquid	10/08/03	10/07/03	

Parameter	Units	Lab Sample IDs				
		53909-11	53909-12	53909-13	53909-14	53909-15

Halogenated and Aromatic Volatiles (8021)

Vinyl chloride	ug/l	1.0U				
o-Xylene	ug/l	1.0U				
m&p-Xylene	ug/l	1.0U				
2-Chloroethylvinyl ether	ug/l	10U				
Methyl Tert Butyl Ether (MTBE)	ug/l	10U				
Total Volatile Organic						
Aromatics	ug/l	1.0U				
Dilution Factor		1	1	1	1	1
Analysis Date		10/14/03	10/14/03	10/14/03	10/15/03	10/15/03
Analysis Time		12:38	11:19	21:46	13:24	14:03
Batch ID		1014B	1014B	1014B	1014B	1014B
Quantitation Factor		1.000				

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53909-16	Method Blank	Liquid	10/08/03		
53909-17	LCS % Recovery	Liquid	10/08/03		
53909-18	LCSD % Recovery	Liquid	10/08/03		
53909-19	PIN20-M024-N001-MS % Recovery	Liquid	10/08/03	10/07/03	
53909-20	PIN20-M024-N001-MSD % Recovery	Liquid	10/08/03	10/07/03	

Parameter	Units	Lab Sample IDs				
		53909-16	53909-17	53909-18	53909-19	53909-20
Arsenic (6010)						
Arsenic	mg/l	0.010U	104 %	103 %	104 %	103 %
Dilution Factor		1	1	1	1	1
Prep Date		10/10/03	10/10/03	10/10/03	10/10/03	10/10/03
Prep Time		20:24	20:24	20:24	20:24	20:24
Analysis Date		10/20/03	10/20/03	10/20/03	10/20/03	10/20/03
Analysis Time		09:24	09:30	09:36	09:55	10:02
Batch ID		1010K	1010K	1010K	1010K	1010K
Quantitation Factor		1.000				

Lead (6010)						
Lead	mg/l	0.0026J	106 %	105 %	104 %	104 %
Dilution Factor		1	1	1	1	1
Prep Date		10/10/03	10/10/03	10/10/03	10/10/03	10/10/03
Prep Time		20:24	20:24	20:24	20:24	20:24
Analysis Date		10/20/03	10/20/03	10/20/03	10/20/03	10/20/03
Analysis Time		09:24	09:30	09:36	09:55	10:02
Batch ID		1010K	1010K	1010K	1010K	1010K
Quantitation Factor		1.000				

Method: EPA SW-846
DOH Certification #E84282

U = Indicates that the compound was analyzed for but not detected.

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL project manager who signed this test report.

The estimated uncertainty associated with these reported results is available upon request.

J = The flag "J" indicates the presence of a compound that meets the identification criteria, but the result is less than the sample RL and greater than the MDL.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

STL Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.stl.com
Phone: (813) 885-7427
Fax: (813) 885-7049

RECEIVED

OCT 27 2003

Alternate Laboratory Name/Location

Phone:
Fax:

**SEVERN
TRENT**

STL

Dave Traub call
970 260-6016
35-3909

PROJECT REFERENCE <i>Stoller Quarterly</i>	PROJECT NO.	PROJECT LOCATION (STATE) <i>FL</i>	MATRIX TYPE	REQUIRED ANALYSIS										PAGE	OF				
SAMPLER'S SIGNATURE <i>David Traub</i>	P.O. NUMBER	CONTRACT NO.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT,...)	BCL COI HMB	8021	AS ₂ Pb	PRESERVATIVE											STANDARD REPORT DELIVERY	<input type="checkbox"/>
CLIENT (SITE) PM <i>Julian Caballero</i>	CLIENT PHONE <i>813 376 1498</i>	CLIENT FAX																DATE DUE	_____
CLIENT NAME <i>S.M. Stoller</i>	CLIENT E-MAIL																	EXPEDITED REPORT DELIVERY (SURCHARGE)	<input type="checkbox"/>
CLIENT ADDRESS <i>7887 Bryan Dairy Rd. Suite 200, Largo 33777</i>	COMPANY CONTRACTING THIS WORK (if applicable)																	DATE DUE	_____

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS		
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12
<i>10-7-03</i>	<i>1308</i>	<i>20-M024</i>	<i>G</i>					<i>3</i>	<i>1</i>											
	<i>1300</i>	<i>20-0552</i>						<i>3</i>	<i>1</i>											
	<i>1340</i>	<i>20-M023</i>						<i>3</i>	<i>1</i>											
	<i>1406</i>	<i>20-M025</i>																		
	<i>1452</i>	<i>20-0502</i>																		
	<i>1550</i>	<i>20-0503</i>																		
<i>10-8-03</i>	<i>0850</i>	<i>20-M054</i>																		
	<i>0948</i>	<i>20-M053</i>																		
	<i>1020</i>	<i>20-M180</i>																		
	<i>1102</i>	<i>20-M019</i>																		

RELINQUISHED BY: (SIGNATURE) <i>David Traub</i>	DATE <i>9-30-03</i>	TIME <i>1500</i>	RELINQUISHED BY: (SIGNATURE) <i>David Traub</i>	DATE <i>10-8-03</i>	TIME <i>1615</i>	RELINQUISHED BY: (SIGNATURE) <i>Philip L. Blouin</i>	DATE <i>10-8-03</i>	TIME <i>1725</i>
RECEIVED BY: (SIGNATURE) <i>David Traub</i>	DATE <i>10-7-03</i>	TIME <i>0800</i>	RECEIVED BY: (SIGNATURE) <i>Philip L. Blouin</i>	DATE <i>10-8-03</i>	TIME <i>1615</i>	RECEIVED BY: (SIGNATURE) <i>Philip L. Blouin</i>	DATE <i>10-9-03</i>	TIME <i>1725</i>

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Philip L. Blouin</i>	DATE <i>10-9-03</i>	TIME <i>0855</i>	CUSTODY INTACT YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO. <i>N/E</i>	STL TAMPA LOG NO. <i>B353909</i>	LABORATORY REMARKS
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Case Narrative: STL Project B353922

Date: October 20, 2003

Client: S. M. Stoller Corporation

Project: Pinellas Star Center/Quarterly

Laboratory: STL Tampa

Analysis Requested: 8021, Arsenic, Lead

Eleven liquid samples were received on October 9, 2003 and logged in as STL Project B353922. The samples are identified as follows:

STL Log No.	Sample ID	Date Collected
B353922-1	PIN20-M001-N001	10.08.03
B353922-2	PIN20-M22D-N001	10.08.03
B353922-3	PIN20-M049-N001	10.08.03
B353922-4	PIN20-MWL5-N001	10.08.03
B353922-5	PIN20-M38D-N001	10.09.03
B353922-6	PIN20-M41D-N001	10.09.03
B353922-7	PIN20-M40D-N001	10.09.03
B353922-8	PIN20-M015-N001	10.09.03
B353922-9	PIN20-MWL1-N001	10.09.03
B353922-10	PIN20-0553-N001 <i>trip blank</i>	10.08.03
B353922-11	PIN20-M007-N001	10.08.03

No QA/QC issues were noted.



Nancy Robertson, Project Manager

Positive Results Summary Report

For: Mr. Paul Darr
S.M. Stoller Corporation
2597 B-3/4 Road
Grand Junction, CO 81503
CC:

Order Number: B353922
SDG Number:
Client Project ID:
Project: Pinellas Star Center/Quarterly
Report Date: 10/20/2003
Sampled By: Client
Sample Received Date: 10/09/2003
Requisition Number:
Purchase Order: 20742



Nancy Robertson, Project Manager
nrobertson@stl-inc.com

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Sample Summary

Order: B353922
Date Received: 10/09/2003

Client: S.M. Stoller Corporation
Project: Pinellas Star Center/Quarterly

Client Sample ID	Lab Sample ID	Matrix	Date Sampled
PIN20-M001-N001	B353922*1	Liquid	10/08/2003 13:25
PIN20-M22D-N001	B353922*2	Liquid	10/08/2003 14:15
PIN20-M049-N001	B353922*3	Liquid	10/08/2003 15:30
PIN20-MWL5-N001	B353922*4	Liquid	10/08/2003 16:05
PIN20-M38D-N001	B353922*5	Liquid	10/09/2003 07:55
PIN20-M41D-N001	B353922*6	Liquid	10/09/2003 08:20
PIN20-M40D-N001	B353922*7	Liquid	10/09/2003 09:05
PIN20-M015-N001	B353922*8	Liquid	10/09/2003 09:50
PIN20-MWL1-N001	B353922*9	Liquid	10/09/2003 10:50
PIN20-O553-N001	B353922*10	Liquid	10/08/2003 13:30
PIN20-M007-N001	B353922*11	Liquid	10/08/2003 15:05

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53922-1	PIN20-M001-N001	Liquid	10/09/03	10/08/03 13:25	
53922-2	PIN20-M22D-N001	Liquid	10/09/03	10/08/03 14:15	
53922-3	PIN20-M049-N001	Liquid	10/09/03	10/08/03 15:30	
53922-4	PIN20-MWL5-N001	Liquid	10/09/03	10/08/03 16:05	
53922-5	PIN20-M38D-N001	Liquid	10/09/03	10/09/03 07:55	

Parameter	Units	Lab Sample IDs				
		53922-1	53922-2	53922-3	53922-4	53922-5

Halogenated and Aromatic Volatiles (8021)					
cis-1,2-Dichloroethene	ug/l	320		24	
trans-1,2-Dichloroethene	ug/l	6.6			
Vinyl chloride	ug/l	490	7.3	7.9	
Arsenic (6010)					
Arsenic	mg/l			0.00521	
Lead (6010)					
Lead	mg/l			0.00211	

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53922-6	PIN20-M41D-N001	Liquid	10/09/03	10/09/03 08:20	
53922-7	PIN20-M40D-N001	Liquid	10/09/03	10/09/03 09:05	
53922-8	PIN20-M01S-N001	Liquid	10/09/03	10/09/03 09:50	
53922-9	PIN20-MWL1-N001	Liquid	10/09/03	10/09/03 10:50	

Parameter	Units	Lab Sample IDs			
		53922-6	53922-7	53922-8	53922-9

Halogenated and Aromatic Volatiles (8021)

Methylene chloride (Dichloromethane)	ug/l	0.31J	0.30J		
Vinyl chloride	ug/l		0.47J	4.1	
Benzene	ug/l			6.8	
Total Volatile Organic Aromatics	ug/l			6.8	

Arsenic (6010)

Arsenic	mg/l	0.0034J			
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Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53922-10	PIN20-0553-N001	Liquid	10/09/03	10/08/03 13:30	

Parameter	Units	53922-10	Lab Sample IDs
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Halogenated and Aromatic Volatiles (8021)			
Methylene chloride (Dichloromethane)	ug/l	1.11	

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53922-11	PIN20-M007-N001	Liquid	10/09/03	10/08/03 15:05	

Parameter	Units	Lab Sample IDs
Lead (6010)	mg/l	53922-11
Lead		0.0033J

Method: EPA SW-846

DOH Certification #E84282

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL project manager who signed this test report.

The estimated uncertainty associated with these reported results is available upon request.

U = Indicates compound was analyzed for but not detected.

J = The flag "J" indicates the presence of a compound that meets the identification criteria, but the result is less than the sample RL and greater than the MDL.

Analytical Report

For: Mr. Paul Darr
S.M. Stoller Corporation
2597 B-3/4 Road
Grand Junction, CO 81503
CC:

Order Number: B353922
SDG Number:
Client Project ID:
Project: Pinellas Star Center/Quarterly
Report Date: 10/20/2003
Sampled By: Client
Sample Received Date: 10/09/2003
Requisition Number:
Purchase Order: 20742



Nancy Robertson, Project Manager
nrobertson@stl-inc.com

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Sample Summary

Order: B353922
Date Received: 10/09/2003

Client: S.M. Stoller Corporation
Project: Pinellas Star Center/Quarterly

Client Sample ID	Lab Sample ID	Matrix	Date Sampled
PIN20-M001-N001	B353922*1	Liquid	10/08/2003 13:25
PIN20-M22D-N001	B353922*2	Liquid	10/08/2003 14:15
PIN20-M049-N001	B353922*3	Liquid	10/08/2003 15:30
PIN20-MWL5-N001	B353922*4	Liquid	10/08/2003 16:05
PIN20-M38D-N001	B353922*5	Liquid	10/09/2003 07:55
PIN20-M41D-N001	B353922*6	Liquid	10/09/2003 08:20
PIN20-M40D-N001	B353922*7	Liquid	10/09/2003 09:05
PIN20-M015-N001	B353922*8	Liquid	10/09/2003 09:50
PIN20-MWL1-N001	B353922*9	Liquid	10/09/2003 10:50
PIN20-O553-N001	B353922*10	Liquid	10/08/2003 13:30
PIN20-M007-N001	B353922*11	Liquid	10/08/2003 15:05

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53922-1	PIN20-M001-N001	Liquid	10/09/03	10/08/03 13:25	
53922-2	PIN20-M22D-N001	Liquid	10/09/03	10/08/03 14:15	
53922-3	PIN20-M049-N001	Liquid	10/09/03	10/08/03 15:30	
53922-4	PIN20-MWL5-N001	Liquid	10/09/03	10/08/03 16:05	
53922-5	PIN20-M38D-N001	Liquid	10/09/03	10/09/03 07:55	

Parameter	Units	Lab Sample IDs				
		53922-1	53922-2	53922-3	53922-4	53922-5

Halogenated and Aromatic Volatiles (8021)

Benzene	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Bromodichloromethane	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Bromoform	ug/l	25U	5.0U	5.0U	5.0U	5.0U
Bromomethane (Methyl bromide)	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Carbon tetrachloride	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Chlorobenzene	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Chloroethane	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Chloroform	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Chloromethane	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
1,2-Dichlorobenzene	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
1,3-Dichlorobenzene	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
1,4-Dichlorobenzene	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Dichlorodifluoromethane	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
1,1-Dichloroethane	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
1,2-Dichloroethane	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
1,1-Dichloroethene	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
cis-1,2-Dichloroethene	ug/l	320	1.0U	24	1.0U	1.0U
trans-1,2-Dichloroethene	ug/l	6.6	1.0U	1.0U	1.0U	1.0U
1,2-Dichloropropane	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
cis-1,3-Dichloropropene	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
trans-1,3-Dichloropropene	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Ethylbenzene	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Methylene chloride (Dichloromethane)	ug/l	25U	5.0U	5.0U	5.0U	5.0U
1,1,2,2-Tetrachloroethane	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Tetrachloroethene	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Toluene	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
1,1,1-Trichloroethane	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-Trichloroethane	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Trichloroethene	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Trichlorofluoromethane	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53922-1	PIN20-M001-N001	Liquid	10/09/03	10/08/03 13:25	
53922-2	PIN20-M22D-N001	Liquid	10/09/03	10/08/03 14:15	
53922-3	PIN20-M049-N001	Liquid	10/09/03	10/08/03 15:30	
53922-4	PIN20-MWL5-N001	Liquid	10/09/03	10/08/03 16:05	
53922-5	PIN20-M38D-N001	Liquid	10/09/03	10/09/03 07:55	

Parameter	Units	Lab Sample IDs				
		53922-1	53922-2	53922-3	53922-4	53922-5

Halogenated and Aromatic Volatiles (8021)

Vinyl chloride	ug/l	490	7.3	7.9	1.0U	1.0U
o-Xylene	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
m&p-Xylene	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
2-Chloroethylvinyl ether	ug/l	50U	10U	10U	10U	10U
Methyl Tert Butyl Ether (MTBE)	ug/l	50U	10U	10U	10U	10U
Total Volatile Organic						
Aromatics	ug/l	5.0U	1.0U	1.0U	1.0U	1.0U
Dilution Factor		5	1	1	1	1
Analysis Date		10/13/03	10/13/03	10/13/03	10/13/03	10/13/03
Analysis Time		17:32	18:11	18:51	19:29	20:09
Batch ID		1013B	1013B	1013B	1013B	1013B
Quantitation Factor		5.000	1.000	1.000	1.000	1.000

Arsenic (6010)

Arsenic	mg/l	0.010U	0.010U	0.0052J	0.010U	0.010U
Dilution Factor		1	1	1	1	1
Prep Date		10/10/03	10/10/03	10/10/03	10/10/03	10/10/03
Prep Time		16:20	16:20	16:20	16:20	16:20
Analysis Date		10/16/03	10/16/03	10/16/03	10/16/03	10/16/03
Analysis Time		14:50	15:09	15:15	15:22	15:41
Batch ID		1010I	1010I	1010I	1010I	1010I
Quantitation Factor		1.000	1.000	1.000	1.000	1.000

Lead (6010)

Lead	mg/l	0.0050U	0.0050U	0.0021J	0.0050U	0.0050U
Dilution Factor		1	1	1	1	1
Prep Date		10/10/03	10/10/03	10/10/03	10/10/03	10/10/03
Prep Time		16:20	16:20	16:20	16:20	16:20
Analysis Date		10/16/03	10/16/03	10/16/03	10/16/03	10/16/03
Analysis Time		14:50	15:09	15:15	15:22	15:41
Batch ID		1010I	1010I	1010I	1010I	1010I
Quantitation Factor		1.000	1.000	1.000	1.000	1.000

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53922-6	PIN20-M41D-N001	Liquid	10/09/03	10/09/03 08:20	
53922-7	PIN20-M40D-N001	Liquid	10/09/03	10/09/03 09:05	
53922-8	PIN20-M015-N001	Liquid	10/09/03	10/09/03 09:50	
53922-9	PIN20-MWL1-N001	Liquid	10/09/03	10/09/03 10:50	

Parameter	Units	Lab Sample IDs			
		53922-6	53922-7	53922-8	53922-9

Halogenated and Aromatic Volatiles (8021)

Benzene	ug/l	1.0U	1.0U	1.0U	6.8
Bromodichloromethane	ug/l	1.0U	1.0U	1.0U	1.0U
Bromoform	ug/l	5.0U	5.0U	5.0U	5.0U
Bromomethane (Methyl bromide)	ug/l	1.0U	1.0U	1.0U	1.0U
Carbon tetrachloride	ug/l	1.0U	1.0U	1.0U	1.0U
Chlorobenzene	ug/l	1.0U	1.0U	1.0U	1.0U
Chloroethane	ug/l	1.0U	1.0U	1.0U	1.0U
Chloroform	ug/l	1.0U	1.0U	1.0U	1.0U
Chloromethane	ug/l	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	ug/l	1.0U	1.0U	1.0U	1.0U
1,2-Dichlorobenzene	ug/l	1.0U	1.0U	1.0U	1.0U
1,3-Dichlorobenzene	ug/l	1.0U	1.0U	1.0U	1.0U
1,4-Dichlorobenzene	ug/l	1.0U	1.0U	1.0U	1.0U
Dichlorodifluoromethane	ug/l	1.0U	1.0U	1.0U	1.0U
1,1-Dichloroethane	ug/l	1.0U	1.0U	1.0U	1.0U
1,2-Dichloroethane	ug/l	1.0U	1.0U	1.0U	1.0U
1,1-Dichloroethene	ug/l	1.0U	1.0U	1.0U	1.0U
cis-1,2-Dichloroethene	ug/l	1.0U	1.0U	1.0U	1.0U
trans-1,2-Dichloroethene	ug/l	1.0U	1.0U	1.0U	1.0U
1,2-Dichloropropane	ug/l	1.0U	1.0U	1.0U	1.0U
cis-1,3-Dichloropropene	ug/l	1.0U	1.0U	1.0U	1.0U
trans-1,3-Dichloropropene	ug/l	1.0U	1.0U	1.0U	1.0U
Ethylbenzene	ug/l	1.0U	1.0U	1.0U	1.0U
Methylene chloride (Dichloromethane)	ug/l	0.31J	5.0U	0.30J	5.0U
1,1,2,2-Tetrachloroethane	ug/l	1.0U	1.0U	1.0U	1.0U
Tetrachloroethene	ug/l	1.0U	1.0U	1.0U	1.0U
Toluene	ug/l	1.0U	1.0U	1.0U	1.0U
1,1,1-Trichloroethane	ug/l	1.0U	1.0U	1.0U	1.0U
1,1,2-Trichloroethane	ug/l	1.0U	1.0U	1.0U	1.0U
Trichloroethene	ug/l	1.0U	1.0U	1.0U	1.0U
Trichlorofluoromethane	ug/l	1.0U	1.0U	1.0U	1.0U
Vinyl chloride	ug/l	1.0U	1.0U	0.47J	4.1

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53922-6	PIN20-M41D-N001	Liquid	10/09/03	10/09/03 08:20	
53922-7	PIN20-M40D-N001	Liquid	10/09/03	10/09/03 09:05	
53922-8	PIN20-M015-N001	Liquid	10/09/03	10/09/03 09:50	
53922-9	PIN20-MML1-N001	Liquid	10/09/03	10/09/03 10:50	

Parameter	Units	Lab Sample IDs			
		53922-6	53922-7	53922-8	53922-9

Halogenated and Aromatic Volatiles (8021)

	ug/l	53922-6	53922-7	53922-8	53922-9
o-Xylene	ug/l	1.0U	1.0U	1.0U	1.0U
m&p-Xylene	ug/l	1.0U	1.0U	1.0U	1.0U
2-Chloroethylvinyl ether	ug/l	10U	10U	10U	10U
Methyl Tert Butyl Ether (MTBE)	ug/l	10U	10U	10U	10U
Total Volatile Organic Aromatics	ug/l	1.0U	1.0U	1.0U	6.8
Dilution Factor		1	1	1	1
Analysis Date		10/13/03	10/14/03	10/13/03	10/14/03
Analysis Time		20:48	13:56	22:06	01:22
Batch ID		1013B	1013B	1013B	1013B
Quantitation Factor		1.000	1.000	1.000	1.000

Arsenic (6010)

	mg/l	53922-6	53922-7	53922-8	53922-9
Arsenic	mg/l	0.0034J	0.010U	0.010U	0.010U
Dilution Factor		1	1	1	1
Prep Date		10/10/03	10/10/03	10/10/03	10/10/03
Prep Time		16:20	16:20	16:20	16:20
Analysis Date		10/16/03	10/16/03	10/16/03	10/16/03
Analysis Time		15:47	15:54	16:00	16:06
Batch ID		1010I	1010I	1010I	1010I
Quantitation Factor		1.000	1.000	1.000	1.000

Lead (6010)

	mg/l	53922-6	53922-7	53922-8	53922-9
Lead	mg/l	0.0050U	0.0050U	0.0050U	0.0050U
Dilution Factor		1	1	1	1
Prep Date		10/10/03	10/10/03	10/10/03	10/10/03
Prep Time		16:20	16:20	16:20	16:20
Analysis Date		10/16/03	10/16/03	10/16/03	10/16/03
Analysis Time		15:47	15:54	16:00	16:06
Batch ID		1010I	1010I	1010I	1010I
Quantitation Factor		1.000	1.000	1.000	1.000

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53922-10	PIN20-0553-N001	Liquid	10/09/03	10/08/03 13:30	

Parameter	Units	Lab Sample IDs
		53922-10

Halogenated and Aromatic Volatiles (8021)

Benzene	ug/l	1.00
Bromodichloromethane	ug/l	1.00
Bromoform	ug/l	5.00
Bromomethane (Methyl bromide)	ug/l	1.00
Carbon tetrachloride	ug/l	1.00
Chlorobenzene	ug/l	1.00
Chloroethane	ug/l	1.00
Chloroform	ug/l	1.00
Chloromethane	ug/l	1.00
Dibromochloromethane	ug/l	1.00
1,2-Dichlorobenzene	ug/l	1.00
1,3-Dichlorobenzene	ug/l	1.00
1,4-Dichlorobenzene	ug/l	1.00
Dichlorodifluoromethane	ug/l	1.00
1,1-Dichloroethane	ug/l	1.00
1,2-Dichloroethane	ug/l	1.00
1,1-Dichloroethene	ug/l	1.00
cis-1,2-Dichloroethene	ug/l	1.00
trans-1,2-Dichloroethene	ug/l	1.00
1,2-Dichloropropane	ug/l	1.00
cis-1,3-Dichloropropene	ug/l	1.00
trans-1,3-Dichloropropene	ug/l	1.00
Ethylbenzene	ug/l	1.00
Methylene chloride (Dichloromethane)	ug/l	1.13
1,1,2,2-Tetrachloroethane	ug/l	1.00
Tetrachloroethene	ug/l	1.00
Toluene	ug/l	1.00
1,1,1-Trichloroethane	ug/l	1.00
1,1,2-Trichloroethane	ug/l	1.00
Trichloroethene	ug/l	1.00
Trichlorofluoromethane	ug/l	1.00
Vinyl chloride	ug/l	1.00
o-Xylene	ug/l	1.00
m&p-Xylene	ug/l	1.00
2-Chloroethylvinyl ether	ug/l	1.00

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53922-10	PIN20-0553-N001	Liquid	10/09/03	10/08/03 13:30	

Parameter	Units	Lab Sample IDs
		53922-10

Halogenated and Aromatic Volatiles (8021)

Methyl Tert Butyl Ether (MTBE)	ug/l	10U
Total Volatile Organic		
Aromatics	ug/l	1.0U
Dilution Factor		1
Analysis Date		10/14/03
Analysis Time		02:01
Batch ID		1013B
Quantitation Factor		1.000

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53922-11	PIN20-M007-N001	Liquid	10/09/03	10/08/03 15:05	

Parameter	Units	Lab Sample IDs
		53922-11

Arsenic (6010)

Arsenic	mg/l	0.010U
Dilution Factor		1
Prep Date		10/10/03
Prep Time		16:20
Analysis Date		10/16/03
Analysis Time		16:13
Batch ID		1010I
Quantitation Factor		1.000

Lead (6010)

Lead	mg/l	0.0033J
Dilution Factor		1
Prep Date		10/10/03
Prep Time		16:20
Analysis Date		10/16/03
Analysis Time		16:13
Batch ID		1010I
Quantitation Factor		1.000

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53922-12	Method Blank	Liquid	10/09/03		
53922-13	LCS % Recovery	Liquid	10/09/03		
53922-14	LCSD % Recovery	Liquid	10/09/03		
53922-15	PIN20-MWL5-N001-MS % Recovery	Liquid	10/09/03	10/08/03	
53922-16	PIN20-MWL5-N001-MSD % Recovery	Liquid	10/09/03	10/08/03	

Parameter	Units	Lab Sample IDs			
		53922-12	53922-13	53922-14	53922-15

Halogenated and Aromatic Volatiles (8021)

Benzene	ug/l	1.0U	93 %	90 %	93 %	84 %
Bromodichloromethane	ug/l	1.0U				
Bromoform	ug/l	5.0U				
Bromomethane (Methyl bromide)	ug/l	1.0U				
Carbon tetrachloride	ug/l	1.0U				
Chlorobenzene	ug/l	1.0U	89 %	81 %	77 %	81 %
Chloroethane	ug/l	1.0U				
Chloroform	ug/l	1.0U				
Chloromethane	ug/l	1.0U				
Dibromochloromethane	ug/l	1.0U				
1,2-Dichlorobenzene	ug/l	1.0U				
1,3-Dichlorobenzene	ug/l	1.0U				
1,4-Dichlorobenzene	ug/l	1.0U				
Dichlorodifluoromethane	ug/l	1.0U				
1,1-Dichloroethane	ug/l	1.0U				
1,2-Dichloroethane	ug/l	1.0U				
1,1-Dichloroethene	ug/l	1.0U	90 %	88 %	91 %	88 %
cis-1,2-Dichloroethene	ug/l	1.0U				
trans-1,2-Dichloroethene	ug/l	1.0U				
1,2-Dichloropropane	ug/l	1.0U				
cis-1,3-Dichloropropene	ug/l	1.0U				
trans-1,3-Dichloropropene	ug/l	1.0U				
Ethylbenzene	ug/l	1.0U				
Methylene chloride (Dichloromethane)	ug/l	5.0U				
1,1,2,2-Tetrachloroethane	ug/l	1.0U				
Tetrachloroethene	ug/l	1.0U				
Toluene	ug/l	1.0U	90 %	79 %	79 %	78 %
1,1,1-Trichloroethane	ug/l	1.0U				
1,1,2-Trichloroethane	ug/l	1.0U				
Trichloroethene	ug/l	1.0U	78 %	79 %	79 %	80 %
Trichlorofluoromethane	ug/l	1.0U				

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53922-12	Method Blank	Liquid	10/09/03		
53922-13	LCS % Recovery	Liquid	10/09/03		
53922-14	LCSD % Recovery	Liquid	10/09/03		
53922-15	PIN20-MWL5-N001-MS % Recovery	Liquid	10/09/03	10/08/03	
53922-16	PIN20-MWL5-N001-MSD % Recovery	Liquid	10/09/03	10/08/03	

Parameter	Units	Lab Sample IDs				
		53922-12	53922-13	53922-14	53922-15	53922-16

Halogenated and Aromatic Volatiles (8021)

Vinyl chloride	ug/l	1.0U				
o-Xylene	ug/l	1.0U				
m&p-Xylene	ug/l	1.0U				
2-Chloroethylvinyl ether	ug/l	10U				
Methyl Tert Butyl Ether (MTBE)	ug/l	10U				
Total Volatile Organic						
Aromatics	ug/l	1.0U				
Dilution Factor		1	1	1	1	1
Analysis Date		10/13/03	10/13/03	10/13/03	10/14/03	10/14/03
Analysis Time		12:56	10:58	23:24	14:35	15:14
Batch ID		1013B	1013B	1013B	1013B	1013B
Quantitation Factor		1.000				

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53922-17	Method Blank	Liquid	10/09/03		
53922-18	LCS % Recovery	Liquid	10/09/03		
53922-19	LCSD % Recovery	Liquid	10/09/03		
53922-20	PIN20-M001-N001-MS % Recovery	Liquid	10/09/03	10/08/03	
53922-21	PIN20-M001-N001-MSD % Recovery	Liquid	10/09/03	10/08/03	

Parameter	Units	Lab Sample IDs				
		53922-17	53922-18	53922-19	53922-20	53922-21

Arsenic (6010)

Arsenic	mg/l	0.010U	101 %	100 %	104 %	104 %
Dilution Factor		1	1	1	1	1
Prep Date		10/10/03	10/10/03	10/10/03	10/10/03	10/10/03
Prep Time		16:20	16:20	16:20	16:20	16:20
Analysis Date		10/16/03	10/16/03	10/16/03	10/16/03	10/16/03
Analysis Time		14:24	14:30	14:37	14:56	15:02
Batch ID		1010I	1010I	1010I	1010I	1010I
Quantitation Factor		1.000				

Lead (6010)

Lead	mg/l	0.0050U	106 %	105 %	105 %	106 %
Dilution Factor		1	1	1	1	1
Prep Date		10/10/03	10/10/03	10/10/03	10/10/03	10/10/03
Prep Time		16:20	16:20	16:20	16:20	16:20
Analysis Date		10/16/03	10/16/03	10/16/03	10/16/03	10/16/03
Analysis Time		14:24	14:30	14:37	14:56	15:02
Batch ID		1010I	1010I	1010I	1010I	1010I
Quantitation Factor		1.000				

Method: EPA SW-846

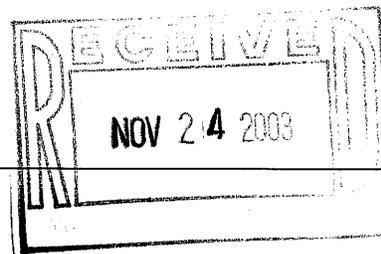
DOH Certification #E84282

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL project manager who signed this test report.

The estimated uncertainty associated with these reported results is available upon request.

U = Indicates compound was analyzed for but not detected.

J = The flag "J" indicates the presence of a compound that meets the identification criteria, but the result is less than the sample RL and greater than the MDL.



Case Narrative: STL Project B353945 Revised

Date: October 20, 2003

Client: S. M. Stoller Corporation

Project: Pinellas Star Center/Quarterly

Laboratory: STL Tampa

Analysis Requested: 8021, Arsenic, Lead

Twelve liquid samples were received on October 10, 2003 and logged in as STL Project B353945. The samples are identified as follows:

STL Log No.	Sample ID	Date Collected
B353945-1	PIN20-MWL3-N001	10.09.03
B353945-2	PIN20-MWL4-N001 <i>original ②</i>	10.09.03
B353945-3	PIN20-MWL2-N001	10.09.03
B353945-4	PIN20-M011-N001	10.09.03
B353945-5	PIN20-M012-N001	10.09.03
B353945-6	PIN20-MWL6-N001	10.10.03
B353945-7	PIN20-M40S-N001	10.10.03
B353945-8	PIN20-M036-N001	10.10.03
B353945-9	PIN20-M035-N001 <i>original ①</i>	10.10.03
B353945-10	PIN20-0550-N001 <i>dup ①</i>	10.10.03
B353945-11	PIN20-0551-N001 <i>dup ②</i>	10.09.03
B353945-12	PIN20-0554-N001 <i>trip blank</i>	10.09.03

The original report had the wrong sample date entered for PIN20-0551-N001.

No QA/QC issues were noted.

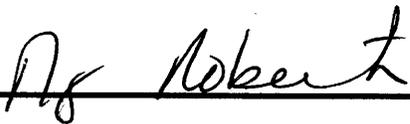

Nancy Robertson, Project Manager

Positive Results Summary Report

For: Mr. Paul Darr
S.M. Stoller Corporation
2597 B-3/4 Road
Grand Junction, CO 81503

CC:

Order Number: B353945
SDG Number:
Client Project ID:
Project: Pinellas Star Center/Quarterly
Report Date: 10/20/2003
Sampled By: Client
Sample Received Date: 10/10/2003
Requisition Number:
Purchase Order: 20742
Revised Date: 11/18/2003



Nancy Robertson, Project Manager
nrobertson@stl-inc.com

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Sample Summary

Order: B353945
Date Received: 10/10/2003

Client: S.M. Stoller Corporation
Project: Pinellas Star Center/Quarterly

Client Sample ID	Lab Sample ID	Matrix	Date Sampled
PIN20-MWL3-N001	B353945*1	Liquid	10/09/2003 13:15
PIN20-MWL4-N001	B353945*2	Liquid	10/09/2003 13:50
PIN20-MWL2-N001	B353945*3	Liquid	10/09/2003 14:30
PIN20-M011-N001	B353945*4	Liquid	10/09/2003 15:10
PIN20-M012-N001	B353945*5	Liquid	10/09/2003 15:35
PIN20-MWL6-N001	B353945*6	Liquid	10/10/2003 08:40
PIN20-M40S-N001	B353945*7	Liquid	10/10/2003 09:25
PIN20-M036-N001	B353945*8	Liquid	10/10/2003 09:50
PIN20-M035-N001	B353945*9	Liquid	10/10/2003 10:10
PIN20-0550-N001	B353945*10	Liquid	10/10/2003 08:30
PIN20-0551-N001	B353945*11	Liquid	10/09/2003 10:00
PIN20-0554-N001	B353945*12	Liquid	10/09/2003 13:30

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53945-1	PIN20-MWL3-N001	Liquid	10/10/03	10/09/03 13:15	
53945-2	PIN20-MWL4-N001	Liquid	10/10/03	10/09/03 13:50	
53945-3	PIN20-MWL2-N001	Liquid	10/10/03	10/09/03 14:30	
53945-4	PIN20-MO11-N001	Liquid	10/10/03	10/09/03 15:10	
53945-5	PIN20-MO12-N001	Liquid	10/10/03	10/09/03 15:35	

Parameter	Units	Lab Sample IDs				
		53945-1	53945-2	53945-3	53945-4	53945-5

Halogenated and Aromatic Volatiles (8021)

Parameter	Units	53945-1	53945-2	53945-3	53945-4	53945-5
Vinyl chloride	ug/l	680	660	82		
cis-1,2-Dichloroethene	ug/l		2600	9.5		
trans-1,2-Dichloroethene	ug/l		133	4.2		
Benzene	ug/l			2.9		
1,1-Dichloroethene	ug/l			0.883		
Total Volatile Organic Aromatics	ug/l			2.9		

Arsenic (6010)

Parameter	Units	53945-1	53945-2	53945-3	53945-4	53945-5
Arsenic	mg/l	0.00453				0.00413

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53945-6	PIN20-MWL6-N001	Liquid	10/10/03	10/10/03 08:40	
53945-7	PIN20-M40S-N001	Liquid	10/10/03	10/10/03 09:25	
53945-8	PIN20-M036-N001	Liquid	10/10/03	10/10/03 09:50	
53945-9	PIN20-M035-N001	Liquid	10/10/03	10/10/03 10:10	
53945-10	PIN20-0550-N001	Liquid	10/10/03	10/10/03 08:30	

Parameter	Units	Lab Sample IDs				
		53945-6	53945-7	53945-8	53945-9	53945-10
Arsenic (6010)						
Arsenic	mg/l	0.0033J	0.0041J		0.0042J	0.0047J

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53945-11	PIN20-0551-N001	Liquid	10/10/03	10/09/03 10:00	

Parameter	Units	53945-11
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Halogenated and Aromatic Volatiles (8021)		
cis-1,2-Dichloroethene	ug/l	2000
trans-1,2-Dichloroethene	ug/l	18J
Vinyl chloride	ug/l	440
Methyl Tert Butyl Ether (MTBE)	ug/l	250

Method: EPA SW-846
DOH Certification #E84282

U = Indicates that the compound was analyzed for but not detected.

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL project manager who signed this test report.

The estimated uncertainty associated with these reported results is available upon request.

J = The flag "J" indicates the presence of a compound that meets the identification criteria, but the result is less than the sample RL and greater than the MDL.

Analytical Report

For: Mr. Paul Darr
S.M. Stoller Corporation
2597 B-3/4 Road
Grand Junction, CO 81503
CC:

Order Number: B353945
SDG Number:
Client Project ID:
Project: Pinellas Star Center/Quarterly
Report Date: 10/20/2003
Sampled By: Client
Sample Received Date: 10/10/2003
Requisition Number:
Purchase Order: 20742
Revised Date: 11/18/2003



Nancy Robertson, Project Manager
nrobertson@stl-inc.com

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Sample Summary

Order: B353945
Date Received: 10/10/2003

Client: S.M. Stoller Corporation
Project: Pinellas Star Center/Quarterly

Client Sample ID	Lab Sample ID	Matrix	Date Sampled
PIN20-MWL3-N001	B353945*1	Liquid	10/09/2003 13:15
PIN20-MWL4-N001	B353945*2	Liquid	10/09/2003 13:50
PIN20-MWL2-N001	B353945*3	Liquid	10/09/2003 14:30
PIN20-M011-N001	B353945*4	Liquid	10/09/2003 15:10
PIN20-M012-N001	B353945*5	Liquid	10/09/2003 15:35
PIN20-MWL6-N001	B353945*6	Liquid	10/10/2003 08:40
PIN20-M405-N001	B353945*7	Liquid	10/10/2003 09:25
PIN20-M036-N001	B353945*8	Liquid	10/10/2003 09:50
PIN20-M035-N001	B353945*9	Liquid	10/10/2003 10:10
PIN20-0550-N001	B353945*10	Liquid	10/10/2003 08:30
PIN20-0551-N001	B353945*11	Liquid	10/09/2003 10:00
PIN20-0554-N001	B353945*12	Liquid	10/09/2003 13:30

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDC#
53945-1	PIN20-MWL3-N001	Liquid	10/10/03	10/09/03 13:15	
53945-2	PIN20-MWL4-N001	Liquid	10/10/03	10/09/03 13:50	
53945-3	PIN20-MWL2-N001	Liquid	10/10/03	10/09/03 14:30	
53945-4	PIN20-M011-N001	Liquid	10/10/03	10/09/03 15:10	
53945-5	PIN20-M012-N001	Liquid	10/10/03	10/09/03 15:35	

Parameter	Units	Lab Sample IDs				
		53945-1	53945-2	53945-3	53945-4	53945-5

Halogenated and Aromatic Volatiles (8021)

Benzene	ug/l	10U	50U	2.9	1.0U	1.0U
Bromodichloromethane	ug/l	10U	50U	1.0U	1.0U	1.0U
Bromoform	ug/l	50U	250U	5.0U	5.0U	5.0U
Bromomethane (Methyl bromide)	ug/l	10U	50U	1.0U	1.0U	1.0U
Carbon tetrachloride	ug/l	10U	50U	1.0U	1.0U	1.0U
Chlorobenzene	ug/l	10U	50U	1.0U	1.0U	1.0U
Chloroethane	ug/l	10U	50U	1.0U	1.0U	1.0U
Chloroform	ug/l	10U	50U	1.0U	1.0U	1.0U
Chloromethane	ug/l	10U	50U	1.0U	1.0U	1.0U
Dibromochloromethane	ug/l	10U	50U	1.0U	1.0U	1.0U
1,2-Dichlorobenzene	ug/l	10U	50U	1.0U	1.0U	1.0U
1,3-Dichlorobenzene	ug/l	10U	50U	1.0U	1.0U	1.0U
1,4-Dichlorobenzene	ug/l	10U	50U	1.0U	1.0U	1.0U
1,1-Dichloroethane	ug/l	10U	50U	1.0U	1.0U	1.0U
1,2-Dichloroethane	ug/l	10U	50U	1.0U	1.0U	1.0U
1,1-Dichloroethene	ug/l	10U	50U	0.88J	1.0U	1.0U
cis-1,2-Dichloroethene	ug/l	10U	2600	9.5	1.0U	1.0U
trans-1,2-Dichloroethene	ug/l	10U	13J	4.2	1.0U	1.0U
1,2-Dichloropropane	ug/l	10U	50U	1.0U	1.0U	1.0U
cis-1,3-Dichloropropene	ug/l	10U	50U	1.0U	1.0U	1.0U
trans-1,3-Dichloropropene	ug/l	10U	50U	1.0U	1.0U	1.0U
Ethylbenzene	ug/l	10U	50U	1.0U	1.0U	1.0U
Methylene chloride						
(Dichloromethane)	ug/l	50U	250U	5.0U	5.0U	5.0U
1,1,2,2-Tetrachloroethane	ug/l	10U	50U	1.0U	1.0U	1.0U
Tetrachloroethene	ug/l	10U	50U	1.0U	1.0U	1.0U
Toluene	ug/l	10U	50U	1.0U	1.0U	1.0U
1,1,1-Trichloroethane	ug/l	10U	50U	1.0U	1.0U	1.0U
1,1,2-Trichloroethane	ug/l	10U	50U	1.0U	1.0U	1.0U
Trichloroethene	ug/l	10U	50U	1.0U	1.0U	1.0U
Trichlorofluoromethane	ug/l	10U	50U	1.0U	1.0U	1.0U
Vinyl chloride	ug/l	680	660	82	1.0U	1.0U

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53945-1	PIN20-MWL3-N001	Liquid	10/10/03	10/09/03 13:15	
53945-2	PIN20-MWL4-N001	Liquid	10/10/03	10/09/03 13:50	
53945-3	PIN20-MWL2-N001	Liquid	10/10/03	10/09/03 14:30	
53945-4	PIN20-M011-N001	Liquid	10/10/03	10/09/03 15:10	
53945-5	PIN20-M012-N001	Liquid	10/10/03	10/09/03 15:35	

Parameter	Units	Lab Sample IDs				
		53945-1	53945-2	53945-3	53945-4	53945-5

Halogenated and Aromatic Volatiles (8021)

o-Xylene	ug/l	10U	50U	1.0U	1.0U	1.0U
m&p-Xylene	ug/l	10U	50U	1.0U	1.0U	1.0U
2-Chloroethylvinyl ether	ug/l	100U	500U	10U	10U	10U
Methyl Tert Butyl Ether (MTBE)	ug/l	100U	500U	10U	10U	10U
Total Volatile Organic						
Aromatics	ug/l	10U	50U	2.9	1.0U	1.0U
Dichlorodifluoromethane	ug/l		50U	1.0U	1.0U	1.0U
Dilution Factor		10	50	1	1	1
Analysis Date		10/15/03	10/15/03	10/15/03	10/15/03	10/15/03
Analysis Time		00:28	01:04	01:41	02:17	02:53
Batch ID		1014E	1014E	1014E	1014E	1014E
Quantitation Factor		10.00	50.00	1.000	1.000	1.000

Arsenic (6010)

Arsenic	mg/l	0.0045J	0.010U	0.010U	0.010U	0.0041J
Dilution Factor		1	1	1	1	1
Prep Date		10/11/03	10/11/03	10/11/03	10/11/03	10/11/03
Prep Time		19:48	19:48	19:48	19:48	19:48
Analysis Date		10/16/03	10/16/03	10/16/03	10/16/03	10/16/03
Analysis Time		10:20	10:39	10:46	10:52	11:12
Batch ID		1011K	1011K	1011K	1011K	1011K
Quantitation Factor		1.000	1.000	1.000	1.000	1.000

Lead (6010)

Lead	mg/l	0.0050U	0.0050U	0.0050U	0.0050U	0.0050U
Dilution Factor		1	1	1	1	1
Prep Date		10/11/03	10/11/03	10/11/03	10/11/03	10/11/03
Prep Time		19:48	19:48	19:48	19:48	19:48
Analysis Date		10/16/03	10/16/03	10/16/03	10/16/03	10/16/03
Analysis Time		10:20	10:39	10:46	10:52	11:12
Batch ID		1011K	1011K	1011K	1011K	1011K
Quantitation Factor		1.000	1.000	1.000	1.000	1.000

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53945-6	PIN20-MWL6-N001	Liquid	10/10/03	10/10/03 08:40	
53945-7	PIN20-M40S-N001	Liquid	10/10/03	10/10/03 09:25	
53945-8	PIN20-M036-N001	Liquid	10/10/03	10/10/03 09:50	
53945-9	PIN20-M035-N001	Liquid	10/10/03	10/10/03 10:10	
53945-10	PIN20-0550-N001	Liquid	10/10/03	10/10/03 08:30	

Parameter	Units	Lab Sample IDs				
		53945-6	53945-7	53945-8	53945-9	53945-10

Halogenated and Aromatic Volatiles (8021)

Benzene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Bromodichloromethane	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Bromoform	ug/l	5.0U	5.0U	5.0U	5.0U	5.0U
Bromomethane (Methyl bromide)	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Carbon tetrachloride	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Chlorobenzene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Chloroethane	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Chloroform	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Chloromethane	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-Dichlorobenzene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-Dichlorobenzene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
1,4-Dichlorobenzene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Dichlorodifluoromethane	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-Dichloroethane	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-Dichloroethane	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-Dichloroethene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
cis-1,2-Dichloroethene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
trans-1,2-Dichloroethene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-Dichloropropane	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
cis-1,3-Dichloropropene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
trans-1,3-Dichloropropene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Ethylbenzene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Methylene chloride						
(Dichloromethane)	ug/l	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,2,2-Tetrachloroethane	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Tetrachloroethene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Toluene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,1-Trichloroethane	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-Trichloroethane	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Trichloroethene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Trichlorofluoromethane	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53945-6	PIN20-MWL6-N001	Liquid	10/10/03	10/10/03 08:40	
53945-7	PIN20-M40S-N001	Liquid	10/10/03	10/10/03 09:25	
53945-8	PIN20-M036-N001	Liquid	10/10/03	10/10/03 09:50	
53945-9	PIN20-M035-N001	Liquid	10/10/03	10/10/03 10:10	
53945-10	PIN20-0550-N001	Liquid	10/10/03	10/10/03 08:30	

Parameter	Units	Lab Sample IDs				
		53945-6	53945-7	53945-8	53945-9	53945-10

Halogenated and Aromatic Volatiles (8021)

Vinyl chloride	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
o-Xylene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
m&p-Xylene	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
2-Chloroethylvinyl ether	ug/l	10U	10U	10U	10U	10U
Methyl Tert Butyl Ether (MTBE)	ug/l	10U	10U	10U	10U	10U
Total Volatile Organic						
Aromatics	ug/l	1.0U	1.0U	1.0U	1.0U	1.0U
Dilution Factor		1	1	1	1	1
Analysis Date		10/15/03	10/15/03	10/15/03	10/15/03	10/15/03
Analysis Time		03:29	04:06	04:42	05:19	14:09
Batch ID		1014E	1014E	1014E	1014E	1014E
Quantitation Factor		1.000	1.000	1.000	1.000	1.000

Arsenic (6010)

Arsenic	mg/l	0.0033J	0.0041J	0.010U	0.0042J	0.0047J
Dilution Factor		1	1	1	1	1
Prep Date		10/11/03	10/11/03	10/11/03	10/11/03	10/11/03
Prep Time		19:48	19:48	19:48	19:48	19:48
Analysis Date		10/16/03	10/16/03	10/16/03	10/16/03	10/16/03
Analysis Time		11:18	11:25	11:31	11:38	11:44
Batch ID		1011K	1011K	1011K	1011K	1011K
Quantitation Factor		1.000	1.000	1.000	1.000	1.000

Lead (6010)

Lead	mg/l	0.0050U	0.0050U	0.0050U	0.0050U	0.0050U
Dilution Factor		1	1	1	1	1
Prep Date		10/11/03	10/11/03	10/11/03	10/11/03	10/11/03
Prep Time		19:48	19:48	19:48	19:48	19:48
Analysis Date		10/16/03	10/16/03	10/16/03	10/16/03	10/16/03
Analysis Time		11:18	11:25	11:31	11:38	11:44
Batch ID		1011K	1011K	1011K	1011K	1011K
Quantitation Factor		1.000	1.000	1.000	1.000	1.000

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53945-11	PIN20-0551-N001	Liquid	10/10/03	10/09/03 10:00	

Parameter	Units	Lab Sample IDs
		53945-11

Halogenated and Aromatic Volatiles (8021)

Benzene	ug/l	25U
Bromodichloromethane	ug/l	25U
Bromoform	ug/l	120U
Bromomethane (Methyl bromide)	ug/l	25U
Carbon tetrachloride	ug/l	25U
Chlorobenzene	ug/l	25U
Chloroethane	ug/l	25U
Chloroform	ug/l	25U
Chloromethane	ug/l	25U
Dibromochloromethane	ug/l	25U
1,2-Dichlorobenzene	ug/l	25U
1,3-Dichlorobenzene	ug/l	25U
1,4-Dichlorobenzene	ug/l	25U
Dichlorodifluoromethane	ug/l	25U
1,1-Dichloroethane	ug/l	25U
1,2-Dichloroethane	ug/l	25U
1,1-Dichloroethene	ug/l	25U
cis-1,2-Dichloroethene	ug/l	2000
trans-1,2-Dichloroethene	ug/l	18J
1,2-Dichloropropane	ug/l	25U
cis-1,3-Dichloropropene	ug/l	25U
trans-1,3-Dichloropropene	ug/l	25U
Ethylbenzene	ug/l	25U
Methylene chloride		
(Dichloromethane)	ug/l	120U
1,1,2,2-Tetrachloroethane	ug/l	25U
Tetrachloroethene	ug/l	25U
Toluene	ug/l	25U
1,1,1-Trichloroethane	ug/l	25U
1,1,2-Trichloroethane	ug/l	25U
Trichloroethene	ug/l	25U
Trichlorofluoromethane	ug/l	25U
Vinyl chloride	ug/l	440
o-Xylene	ug/l	25U
m&p-Xylene	ug/l	25U
2-Chloroethylvinyl ether	ug/l	250U

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53945-11	PIN20-0551-N001	Liquid	10/10/03	10/09/03 10:00	

Parameter	Units	Lab Sample IDs
		53945-11

Halogenated and Aromatic Volatiles (8021)

Methyl Tert Butyl Ether (MTBE)	ug/l	250
Total Volatile Organic		
Aromatics	ug/l	25U
Dilution Factor		25
Analysis Date		10/16/03
Analysis Time		00:54
Batch ID		1014E
Quantitation Factor		25.00

Arsenic (6010)

Arsenic	mg/l	0.010U
Dilution Factor		1
Prep Date		10/11/03
Prep Time		19:48
Analysis Date		10/16/03
Analysis Time		11:51
Batch ID		1011K
Quantitation Factor		1.000

Lead (6010)

Lead	mg/l	0.0050U
Dilution Factor		1
Prep Date		10/11/03
Prep Time		19:48
Analysis Date		10/16/03
Analysis Time		11:51
Batch ID		1011K
Quantitation Factor		1.000

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53945-12	PIN20-0554-N001	Liquid	10/10/03	10/09/03 13:30	

Parameter	Units	Lab Sample IDs
		53945-12

Halogenated and Aromatic Volatiles (8021)

Benzene	ug/l	1.0U
Bromodichloromethane	ug/l	1.0U
Bromoform	ug/l	5.0U
Bromomethane (Methyl bromide)	ug/l	1.0U
Carbon tetrachloride	ug/l	1.0U
Chlorobenzene	ug/l	1.0U
Chloroethane	ug/l	1.0U
Chloroform	ug/l	1.0U
Chloromethane	ug/l	1.0U
Dibromochloromethane	ug/l	1.0U
1,2-Dichlorobenzene	ug/l	1.0U
1,3-Dichlorobenzene	ug/l	1.0U
1,4-Dichlorobenzene	ug/l	1.0U
Dichlorodifluoromethane	ug/l	1.0U
1,1-Dichloroethane	ug/l	1.0U
1,2-Dichloroethane	ug/l	1.0U
1,1-Dichloroethene	ug/l	1.0U
cis-1,2-Dichloroethene	ug/l	1.0U
trans-1,2-Dichloroethene	ug/l	1.0U
1,2-Dichloropropane	ug/l	1.0U
cis-1,3-Dichloropropene	ug/l	1.0U
trans-1,3-Dichloropropene	ug/l	1.0U
Ethylbenzene	ug/l	1.0U
Methylene chloride		
(Dichloromethane)	ug/l	5.0U
1,1,2,2-Tetrachloroethane	ug/l	1.0U
Tetrachloroethene	ug/l	1.0U
Toluene	ug/l	1.0U
1,1,1-Trichloroethane	ug/l	1.0U
1,1,2-Trichloroethane	ug/l	1.0U
Trichloroethene	ug/l	1.0U
Trichlorofluoromethane	ug/l	1.0U
Vinyl chloride	ug/l	1.0U
o-Xylene	ug/l	1.0U
m&p-Xylene	ug/l	1.0U
2-Chloroethylvinyl ether	ug/l	10U

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53945-12	PIN20-0554-N001	Liquid	10/10/03	10/09/03 13:30	

Parameter	Units	Lab Sample IDs
		53945-12

Halogenated and Aromatic Volatiles (8021)

Methyl Tert Butyl Ether (MTBE)	ug/l	10U
Total Volatile Organic		
Aromatics	ug/l	1.0U
Dilution Factor		1
Analysis Date		10/15/03
Analysis Time		21:16
Batch ID		1014E
Quantitation Factor		1.000

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53945-13	Method Blank	Liquid	10/10/03		
53945-14	LCS % Recovery	Liquid	10/10/03		
53945-15	LCSD % Recovery	Liquid	10/10/03		
53945-16	PIN20-MWL2-N001-MS % Recovery	Liquid	10/10/03	10/09/03	
53945-17	PIN20-MWL2-N001-MSD % Recovery	Liquid	10/10/03	10/09/03	

Parameter	Units	Lab Sample IDs				
		53945-13	53945-14	53945-15	53945-16	53945-17

Halogenated and Aromatic Volatiles (8021)

Benzene	ug/l	1.0U	80 %	75 %	82 %	90 %
Bromodichloromethane	ug/l	1.0U				
Bromoform	ug/l	5.0U				
Bromomethane (Methyl bromide)	ug/l	1.0U				
Carbon tetrachloride	ug/l	1.0U				
Chlorobenzene	ug/l	1.0U	89 %	92 %	76 %	88 %
Chloroethane	ug/l	1.0U				
Chloroform	ug/l	1.0U				
Chloromethane	ug/l	1.0U				
Dibromochloromethane	ug/l	1.0U				
1,2-Dichlorobenzene	ug/l	1.0U				
1,3-Dichlorobenzene	ug/l	1.0U				
1,4-Dichlorobenzene	ug/l	1.0U				
Dichlorodifluoromethane	ug/l	1.0U				
1,1-Dichloroethane	ug/l	1.0U				
1,2-Dichloroethane	ug/l	1.0U				
1,1-Dichloroethene	ug/l	1.0U	100 %	110 %	98 %	130 %
cis-1,2-Dichloroethene	ug/l	1.0U				
trans-1,2-Dichloroethene	ug/l	1.0U				
1,2-Dichloropropane	ug/l	1.0U				
cis-1,3-Dichloropropene	ug/l	1.0U				
trans-1,3-Dichloropropene	ug/l	1.0U				
Ethylbenzene	ug/l	1.0U				
Methylene chloride (Dichloromethane)	ug/l	5.0U				
1,1,2,2-Tetrachloroethane	ug/l	1.0U				
Tetrachloroethene	ug/l	1.0U				
Toluene	ug/l	1.0U	91 %	83 %	80 %	93 %
1,1,1-Trichloroethane	ug/l	1.0U				
1,1,2-Trichloroethane	ug/l	1.0U				
Trichloroethene	ug/l	1.0U	99 %	110 %	88 %	120 %
Trichlorofluoromethane	ug/l	1.0U				

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53945-13	Method Blank	Liquid	10/10/03		
53945-14	LCS % Recovery	Liquid	10/10/03		
53945-15	LCSD % Recovery	Liquid	10/10/03		
53945-16	PIN20-MWL2-N001-MS % Recovery	Liquid	10/10/03	10/09/03	
53945-17	PIN20-MWL2-N001-MSD % Recovery	Liquid	10/10/03	10/09/03	

Parameter	Units	Lab Sample IDs				
		53945-13	53945-14	53945-15	53945-16	53945-17

Halogenated and Aromatic Volatiles (8021)

Vinyl chloride	ug/l	1.0U				
o-Xylene	ug/l	1.0U				
m&p-Xylene	ug/l	1.0U				
2-Chloroethylvinyl ether	ug/l	10U				
Methyl Tert Butyl Ether (MTBE)	ug/l	10U				
Total Volatile Organic						
Aromatics	ug/l	1.0U				
Dilution Factor		1	1	1	1	1
Analysis Date		10/14/03	10/14/03	10/14/03	10/15/03	10/15/03
Analysis Time		20:49	11:08	11:44	15:57	16:34
Batch ID		1014E	1014E	1014E	1014E	1014E
Quantitation Factor		1.000				

Analytical Data Report

Lab Sample ID	Description	Matrix	Date Received	Date Sampled	SDG#
53945-18	Method Blank	Liquid	10/10/03		
53945-19	LCS % Recovery	Liquid	10/10/03		
53945-20	LCSD % Recovery	Liquid	10/10/03		
53945-21	PIN20-MWL3-N001-MS % Recovery	Liquid	10/10/03	10/09/03	
53945-22	PIN20-MWL3-N001-MSD % Recovery	Liquid	10/10/03	10/09/03	

Parameter	Units	Lab Sample IDs				
		53945-18	53945-19	53945-20	53945-21	53945-22
Arsenic (6010)						
Arsenic	mg/l	0.010U	101 %	102 %	107 %	104 %
Dilution Factor		1	1	1	1	1
Prep Date		10/11/03	10/11/03	10/11/03	10/11/03	10/11/03
Prep Time		19:48	19:48	19:48	19:48	19:48
Analysis Date		10/16/03	10/16/03	10/16/03	10/16/03	10/16/03
Analysis Time		09:54	10:00	10:07	10:26	10:33
Batch ID		1011K	1011K	1011K	1011K	1011K
Quantitation Factor		1.000				

Lead (6010)						
Lead	mg/l	0.0050U	103 %	104 %	104 %	103 %
Dilution Factor		1	1	1	1	1
Prep Date		10/11/03	10/11/03	10/11/03	10/11/03	10/11/03
Prep Time		19:48	19:48	19:48	19:48	19:48
Analysis Date		10/16/03	10/16/03	10/16/03	10/16/03	10/16/03
Analysis Time		09:54	10:00	10:07	10:26	10:33
Batch ID		1011K	1011K	1011K	1011K	1011K
Quantitation Factor		1.000				

Method: EPA SW-846

DOH Certification #E84282

U = Indicates that the compound was analyzed for but not detected.

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL project manager who signed this test report.

The estimated uncertainty associated with these reported results is available upon request.

J = The flag "J" indicates the presence of a compound that meets the identification criteria, but the result is less than the sample RL and greater than the MDL.

