



**GROUNDWATER MONITORING REPORT
FOR THE JANUARY 2004 SAMPLING EVENT
ZILKER PARK LANDFILL PROJECT
AUSTIN, TEXAS**

Prepared for:
City of Austin
Department of Public Works
P.O. Box 1088
Austin, Texas 78767

Prepared by:
Shaw Environmental, Inc.
8501 N. Mopac,
Suite 320
Austin, Texas 78759

April 2004

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Prepared by:
Shaw Environmental, Inc.
8501 N. Mopac,
Suite 320
Austin, Texas 78759

April 2004

Prepared by:

Martin Romanak, P.G.

Reviewed by:

John Moody, P.E.

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1.0 INTRODUCTION

This report presents the results of groundwater sampling and analysis performed by Shaw Environmental, Inc, (Shaw) on January 29-30, 2004 at the Zilker Park Landfill site. The groundwater monitoring was conducted under Supplemental Amendment #3 to the original professional service agreement between the City of Austin (COA) and EMCON, a subsidiary of the Shaw Group. Activities consisted of the collection and analysis of groundwater samples from on-site monitoring wells installed as part of Phase I of the Zilker Park Landfill Remediation Project (C.I.P. Project No. 480-497-0604).

1.1 PROJECT BACKGROUND

The Zilker Park Landfill site is the location of the former Butler Landfill. The landfill is located on the south shore of Town Lake and extends west of Mopac highway from Dry Creek eastward about 2,500 feet into Zilker Park. The Butler Landfill was operated by the COA from 1948 to 1967. Municipal waste disposed at the landfill was used to fill an old gravel pit that had been mined for sand and gravel from low terrace deposits of the Colorado River. The Edwards Limestone underlies the terrace deposits in all areas of the landfill.

The COA installed a monitoring well (MW-1) in the fill area of the landfill in 1984. During Phase I of the Zilker Park Landfill Remediation Project, an additional six (6) monitoring wells were installed at the landfill site in March 1998. Figure 1 (Appendix B) presents a monitoring well location map. In early 2003, additional fill material (i.e., soil) was added to the top of the landfill to improve surface drainage at the site. Due to additional fill, several monitoring wells were extended to match the new ground surface elevation at each location in early October 2003. The January 2004 monitoring event represents the 3rd sampling event performed at the landfill site since the installation of the six (6) monitoring wells (MW-2 through MW-7).

2.0 SAMPLING AND ANALYSIS PROCEDURES

On January 29-30, 2004, Shaw sampling personnel collected groundwater samples from six (6) on-site monitoring wells (MW-1, MW-2, MW-3, MW-5, MW-6, and MW-7). Monitoring well MW-4 was not sampled due to the lack of groundwater in the well. The following presents the sampling methodologies and analytical methods utilized to collect and analyze the groundwater samples.

2.1 LOW-FLOW GROUNDWATER SAMPLING

Prior to groundwater sampling, water levels were measured in monitoring well using a tape equipped with an electric water level sensor. Water levels were measured to the nearest 0.01 ft from the top of PVC well casing. Monitoring well water level data presented on Table 1 (Appendix A) indicate that water elevations measured in wells MW-2 through MW-7 during the January 2004 monitoring event were similar to those measured during previous sampling conducted in October 2003. The water level measured in MW-1 was approximately 2.5 ft higher than the level measured in October 2003.

Low-flow sampling techniques were utilized to collect groundwater samples following applicable procedures outlined in USEPA (1996) and TCEQ (1999) guidance. The objective of low-flow sampling was to purge and sample the wells in a manner that minimizes stress (drawdown) to the groundwater system and, thereby, limit the introduction of suspended solids and better ensure the collection of representative groundwater samples. The method involves sampling groundwater without disturbing the stagnant water above the pump intake by pumping a well at low flow rates while maintaining minimal drawdown of the water column within the well. A gas-driven bladder pump with dedicated bladder and tubing was placed within the screened interval of each well and the wells were purged at low flow rates of less than 1 liter per minute (L/min).

During low-flow purging, the water quality indicator parameters pH, specific conductance, dissolved oxygen, oxidation-reduction potential, and temperature were measured using an in-line flow-through cell and standardized equipment. Table 2 (Appendix A) presents a summary of the field parameter measurements. Stabilization of these parameters was used to determine when formation water was accessed during purging and when sample collection was appropriate. Minimum purge volume was equivalent to at least twice the combined volumes of the pump and tubing.

Groundwater samples were placed directly into laboratory provided bottles containing appropriate preservatives, then sealed and labeled. Container and container closure material used were appropriate (i.e., polyethylene, glass) for the analyses to be performed on the

samples. The containers were labeled with the sample number, date and time of collection, and preservative used.

Sample containers were placed securely on ice in insulated coolers as the samples were collected. The samples remained in the possession of Shaw sampling personnel and were shipped directly to Certes Environmental Laboratory in Dallas, Texas at the completion of the sampling event. Chain-of-custody forms were prepared for the samples and copies of the forms are included in Appendix C.

2.2 SAMPLE ANALYSIS

In accordance with Supplemental Amendment #3, samples collected from the Zilker Park Landfill monitoring wells were analyzed for the suite of parameters included on the analytical laboratory reports presented in Appendix C. These included the following metallic and organic constituents.

- Volatile Organic Compounds (VOCs) using EPA Method 8260B
- Polynuclear Aromatic Hydrocarbons (PAHs) using EPA Method 827C
- Chlorinated Herbicides using EPA Method 8151
- Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) using EPA Methods 6010B and 7470A

Organochlorine Pesticides (OCPs) analytical results were not reported for the groundwater samples collected during the January 2004 monitoring event. Samples for OPC analysis were collected and submitted to the analytical laboratory, however, due to unacceptable QA/QC results and prior volume reduction of samples during analytical extractions, the initial analytical data was not valid and additional sample volumes were not available to re-run the samples. Because the QA/QC data were outside acceptable limits, the analytical results were not valid and, therefore, were not reported on the analytical laboratory report presented in Appendix C.

Samples collected for metal analysis were submitted for both total and dissolved metals. Samples collected for dissolved metal analysis were filtered in the laboratory using a 10-micrometer pore size filter prior to analysis.

3.0 ANALYTICAL RESULTS

A summary of the analytical results for the January 2004 sampling event is presented on Table 3 (Appendix A). Included on Table 3 is a summary of the analytical results for previous sampling events performed in October 1997 (MW-1 only), March 1998 (MW-2 through MW-7), and October 2003 (MW-1 through MW-3 and MW-5 through MW-7). The analytical report prepared by Certes for the January 2004 sampling event is included in Appendix C.

Analytical results for the samples collected in October 2003 and January 2004 were reported based on the analytical laboratory's method detection limits (MDLs) adjusted for sample-specific factors. This adjusted MDL is reported on the laboratory reports as the sample quantitation limit (SQL), as per TCEQ guidance (TRRP-13). Concentrations detected between the SQL and the reporting limit (RL) (i.e., adjusted method quantitation limit) are flagged with a "J" on the analytical report. The presence of constituents flagged with a J is certain but the concentration of such constituents is uncertain and estimated by the laboratory. Detected concentrations above the RL are quantifiable and are not flagged with a qualifier. Samples collected in October 1997 and March 1998 were reported based on the laboratory's RLs, which are higher than the SQLs, and therefore no concentrations were flagged with the J qualifier.

To evaluate the groundwater analytical data, detected concentrations were compared to the Texas Risk Reduction Program (TRRP) Tier 1 residential groundwater protective concentration levels (PCLs). The groundwater PCLs (^{GW}GW) are based on federal primary maximum contaminant levels (MCLs) promulgated under the Safe Drinking Water Act or, if MCLs are not available for a constituent, risk-based levels based on groundwater ingestion. TRRP Tier 1 PCLs are included on Table 3 and concentrations that exceed the PCLs are highlighted on the table.

The analytical results for groundwater samples collected in January 2004 do not reflect any major abnormalities from the analytical data for samples collected during the previous sampling event in October 2003. The volatile organic constituents acetone, 2-butanone, chlorobenzene, 1,4-dichlorobenzene, methylene chloride and vinyl chloride were detected at least once in the groundwater samples collected in January 2004. All detected values were well below the ^{GW}GW PCLs. Acetone and methylene chloride are commonly used by analytical laboratories and are common laboratory contaminants. These constituents were detected below the RL (i.e., J-flagged) and their presence was likely due to laboratory cross-contamination.

Estimated J-flagged concentrations were detected for 2-butanone in well MW-3, 1,4-dichlorobenzene in wells MW-6 and MW-7, and vinyl chloride in well MW-5. Chlorobenzene was detected in wells MW-1 and MW-6.

PAHs and chlorinated herbicides were not detected in any ground water sample collected from the on-site monitoring wells during the January 2004 monitoring event.

The metals arsenic, barium, cadmium, chromium, lead, selenium, and silver were detected at least once in samples collected during the January 2004 sampling event. In general, total concentrations were slightly higher than dissolved concentrations, although they were relatively close to one another.

Total and dissolved arsenic concentrations were detected above the PCL of 0.01 mg/l in wells MW-3, MW-5 and MW-7 during the January 2004 sampling event. All other detected total and dissolved concentrations were below the PCLs.

3.0 SUMMARY AND CONCLUSIONS

The following conclusions are based on the findings of the groundwater monitoring event conducted at the Zilker Park Landfill in January 2004.

- Water level data indicate that water elevations measured in wells MW-2 through MW-7 during the January 2004 monitoring event were similar to those measured during previous sampling conducted in October 2003. The water level measured in MW-1 was approximately 2.5 ft higher than the level measured in October 2003.
- Estimated J-flagged concentrations were detected below ^{GW}GW PCLs in groundwater samples collected in January 2004 for the volatile organic constituents 2-butanone in well MW-3, 1,4-dichlorobenzene in wells MW-6 and MW-7, and vinyl chloride in well MW-5. Chlorobenzene was detected below the ^{GW}GW PCL in wells MW-1 and MW-6.
- Low-level detection of acetone and methylene chloride was likely due to laboratory contamination and these results are not representative of natural groundwater.
- PAHs and chlorinated herbicides were not detected in any ground water sample collected from the on-site monitoring wells during the January 2004 sampling event.
- The metals arsenic, barium, cadmium, chromium, lead, selenium, and silver were detected at least once in samples collected during the January 2004 sampling event.
- Total and dissolved arsenic concentrations were detected above the PCL of 0.01 mg/l in wells MW-3, MW-5 and MW-7. All other detected total and dissolved concentrations were below the PCLs.

4.0 REFERENCES

EMCON. 1997. Zilker Park Landfill Project, Phase I, Task 1 – Preliminary Site Assessment, Austin, Texas. EMCON Project No. 62786-002.001.

_____. 1998. Zilker Park Landfill Project, Phase I, Task 5 – Site Assessment Report, Austin, Texas. EMCON Project No. 62786-002.001.

Texas Commission on Environmental Quality (TCEQ). 1999. Guidelines for Low-Flow Purging and Sampling of Groundwater Monitor Wells. TCEQ Voluntary Cleanup Program (VCP) Guidance, October 1999.

United States Environmental Protection Agency (USEPA). 1996. Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures. EPA/540/S-95/504, April 1996.

APPENDIX A
TABLES

TABLE 1

Well Gauging Data for Zilker Park Landfill Monitoring Wells

Well ID No.	TOC Elevation (ft msl)	New TOC Elevation (ft msl) ⁽¹⁾	Depth to Groundwater (ft) ⁽²⁾			Groundwater Elevation (ft msl)		
			May 98	Oct 03	Jan 04	May 98	Oct 03	Jan 04
MW-1	451.0	---	10.60	17.79	15.16	440.40	433.21	435.84
MW-2	465.7	---	34.71	35.71	35.72	430.99	429.99	429.98
MW-3	457.6	460.4	26.73	32.62	32.67	430.87	424.98	427.73
MW-4	464.0	466.4	31.85	Dry	Dry	432.15	---	---
MW-5	457.0	---	26.20	28.72	28.83	430.80	428.28	428.17
MW-6	454.2	---	25.15	26.00	26.10	429.05	428.20	428.10
MW-7	455.1	457.8	26.63	30.89	30.81	428.47	424.21	426.99

TOC = Top of PVC well casing

⁽¹⁾ Monitoring wells extended and constructed with new above-ground (stickup) completion.

⁽²⁾ Measured from TOC.

TABLE 2
Summary of Field Water Quality Indicator Parameters
Recorded for Zilker Park Landfill Monitoring Wells

Well ID No.	Date	Temperature (degree C)	Specific Conductance (uS/cm)	pH	ORP (mV)	DO (mg/l)
MW-1	10/30/03	23.56	2.503	6.29	-112.1	0.38
	01/30/04	19.7	1.211	6.39	-135.0	1.56
MW-2	10/29/03	22.83	1.191	6.53	135.0	2.36
	01/29/04	21.17	1.002	6.7	272.9	3.71
MW-3	10/28/03	22.29	0.953	6.72	-82.0	0.95
	01/29/04	18.17	0.978	6.79	-76.6	1.67
MW-4	10/28/03	na	na	na	na	na
	01/30/04	na	na	na	na	na
MW-5	10/29/03	23.42	1.533	6.38	-122.1	0.34
	01/30/04	21.73	1.423	6.63	-118.6	1.9
MW-6	10/30/03	23.56	1.366	6.54	-103.2	0.37
	01/30/04	21.41	1.106	6.7	-94.2	1.51
MW-7	10/28/03	25.77	1.523	6.58	-118.7	0.42
	01/30/04	19.71	1.195	6.78	-73.1	0.78

na = Not measured

TABLE 3
Summary of Analytical Results for Zilker Park Landfill Groundwater Samples

Chemical Constituents (mg/l)	TRRP ^{GW} PCL	MW-1			MW-2			MW-3			MW-4		
		Oct 1997	Oct 2003	Jan 2004	Mar 1998	Oct 2003	Jan 2004	Mar 1998	Oct 2003	Jan 2004	Mar 1998	Oct 2003	Jan 2004
<u>VOCs</u>													
Acetone	2.4	<0.100	0.00735JB	<0.00371	<0.100	<0.00371	0.00781J	<0.100	<0.00371	0.0319J	<0.100	na	na
2-Butanone (MEK)	15	<0.050	<0.00226	<0.00226	<0.050	<0.00226	<0.00226	<0.050	<0.00226	0.00381J	<0.050	na	na
Chlorobenzene	0.1	0.010	0.00568	0.00185J	<0.005	<0.00059	<0.00059	<0.005	<0.00059	<0.00059	<0.005	na	na
1,3-Dichlorobenzene	0.73	<0.005	0.00118J	<0.00166	<0.005	<0.00166	<0.00166	<0.005	<0.00166	<0.00166	<0.005	na	na
1,4-Dichlorobenzene	0.075	na	0.00115J	<0.00067	<0.005	<0.00067	<0.00067	<0.005	<0.00067	<0.00067	<0.005	na	na
Dichlorodifluoromethane	4.9	na	<0.00122	<0.00122	na	<0.00122	<0.00122	na	<0.00122	<0.00122	na	na	na
Methylene Chloride	0.005	<0.005	0.00146J	<0.00082	<0.005	0.00160J	0.00105J	<0.005	0.00156J	0.00102J	<0.005	na	na
Vinyl Chloride	0.002	<0.002	<0.00086	<0.00086	<0.002	<0.00086	<0.00086	<0.002	<0.00086	<0.00086	<0.002	na	na
<u>PAHs</u>													
	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
<u>Pesticides</u>													
	---	ND	na	na	ND	ND	na	ND	ND	na	ND	na	na
<u>Herbicides</u>													
	---	ND	na	ND	ND	ND	ND	ND	ND	ND	ND	na	na
<u>Metals</u>													
Aluminum, total dissolved	240	0.037	na	na	219	5.20	na	34.7	0.952	na	4.12	na	na
		na	na	na	na	4.53	na	na	0.788	na	na	na	na
Arsenic, total dissolved	0.01	<0.030	na	0.0041J	0.078	<0.0024	<0.0024	0.088	0.0114	0.0214	<0.030	na	na
		na	na	<0.0024	na	<0.0024	0.0028J	na	0.0090J	0.0139J	na	na	na
Barium, total dissolved	2.0	0.69	na	0.348	2.59	0.122	0.110	0.650	0.133	0.194	0.200	na	na
		na	na	0.372	na	0.116	0.107	na	0.138	0.169	na	na	na
Cadmium, total dissolved	0.005	<0.005	na	<0.0004	0.006	<0.0004	<0.0004	<0.005	<0.0004	<0.0004	<0.005	na	na
		na	na	<0.0004	na	<0.0004	<0.0004	na	<0.0004	<0.0004	na	na	na
Chromium, total dissolved	0.1	<0.005	na	0.0005J	0.210	0.0062	0.0024J	0.037	0.0012J	0.0012J	0.008	na	na
		na	na	<0.0005	na	0.0051J	0.0012J	na	0.0014J	<0.0005	na	na	na
Iron, total dissolved	---	14.2	na	na	273	5.15	na	62.6	4.85	na	5.98	na	na
		na	na	na	na	3.50	na	na	3.48	na	na	na	na
Lead, total dissolved	0.015	<0.015	na	0.0084J	0.270	<0.00271	<0.00271	<0.015	<0.00271	<0.00271	<0.015	na	na
		na	na	<0.00271	na	0.0034J	<0.00271	na	<0.00271	<0.00271	na	na	na
Manganese, total dissolved	1.1	0.39	na	na	8.04	0.0605	na	3.96	0.297	na	0.460	na	na
		na	na	na	na	0.0415	na	na	0.297	na	na	na	na
Mercury, total dissolved	0.002	<0.0005	na	<0.000028	0.0013	<0.000028	<0.000028	<0.0005	<0.000028	<0.000028	<0.0005	na	na
		na	na	<0.000028	na	<0.000028	<0.000028	na	<0.000028	<0.000028	na	na	na
Selenium, total dissolved	0.05	<0.040	na	0.0056J	<0.040	<0.0047	<0.0047	<0.040	<0.0047	<0.0047	<0.040	na	na
		na	na	<0.0047	na	<0.0047	<0.0047	na	<0.0047	<0.0047	na	na	na
Silver, total dissolved	0.12	<0.010	na	<0.00083	<0.010	<0.00083	<0.00083	<0.010	0.0015J	<0.00083	<0.010	na	na
		na	na	0.0040J	na	0.0014J	<0.00083	na	0.0012J	<0.00083	na	na	na
Zinc, total dissolved	7.3	0.099	na	na	0.950	<0.0004	na	0.140	0.0058J	na	<0.050	na	na
		na	na	na	na	<0.0004	na	na	0.0006J	na	na	na	na

Notes:

na = Not analyzed

ND - Not detected

 = Detected concentration is above TRRP^{GW} PCL

TABLE 3
Summary of Analytical Results for Zilker Park Landfill Groundwater Samples

Chemical Constituents (mg/l)	TRRP ^{GW} PCL	MW-5			MW-6			MW-7		
		Mar 1998	Oct 2003	Jan 2004	Mar 1998	Oct 2003	Jan 2004	Mar 1998	Oct 2003	Jan 2004
<u>VOCs</u>										
Acetone	2.4	<0.100	<0.00371	0.00988J	<0.100	0.00383JB	0.0130J	<0.100	0.00669JB	0.0101J
2-Butanone (MEK)	15	<0.050	<0.00226	<0.00226	<0.050	<0.00226	<0.00226	<0.050	<0.00226	<0.00226
Chlorobenzene	0.1	<0.005	<0.00059	<0.00059	<0.005	0.0152	0.00863	<0.005	<0.00059	<0.00059
1,3-Dichlorobenzene	0.73	<0.005	<0.00166	<0.00166	<0.005	<0.00166	<0.00166	<0.005	<0.00166	<0.00166
1,4-Dichlorobenzene	0.075	<0.005	<0.00067	<0.00067	<0.005	0.00286J	0.00171J	<0.005	0.00123J	0.00079J
Dichlorodifluoromethane	4.9	na	0.00149J	<0.00122	na	<0.00122	<0.00122	na	<0.00122	<0.00122
Methylene Chloride	0.005	<0.005	0.00177J	<0.00082	<0.005	0.00131J	0.00144J	<0.005	0.00171J	<0.00082
Vinyl Chloride	0.002	<0.002	<0.00086	0.00089J	<0.002	<0.00086	<0.00086	<0.002	<0.00086	<0.00086
<u>PAHs</u>										
	---	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Pesticides</u>										
	---	ND	ND	na	ND	ND	na	ND	ND	na
<u>Herbicides</u>										
	---	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u>Metals</u>										
Aluminum, total	240	145	0.277	na	98.6	0.331	na	186	1.60	na
dissolved		na	0.186	na	na	0.323	na	na	0.691	na
Arsenic, total	0.01	0.150	0.0401	0.0506	0.031	0.00620J	0.0054J	0.073	0.0246	0.0131
dissolved		na	0.0281J	0.0396J	na	0.0052J	0.0044J	na	0.0139	0.0106J
Barium, total	2.0	2.25	0.399	0.469	1.27	0.400	0.356	1.39	0.316	0.211
dissolved		na	0.343	0.379	na	0.366	0.344	na	0.25	0.187
Cadmium, total	0.005	0.006	<0.0004	<0.0004	<0.005	<0.0004	<0.0004	<0.005	<0.0004	<0.0004
dissolved		na	<0.0004	<0.0004	na	<0.0004	<0.0004	na	<0.0004	<0.0004
Chromium, total	0.1	0.220	0.00070J	0.0010J	0.130	0.0012J	<0.0005	0.160	0.0025J	0.0010J
dissolved		na	<0.0005	0.0009J	na	0.0012J	0.0011J	na	0.0433	<0.0005
Iron, total	---	281	16.3	na	112	4.73	na	220	9.87	na
dissolved		na	10.9	na	na	3.61	na	na	3.62	na
Lead, total	0.015	0.200	<0.00271	<0.00271	0.120	<0.00271	<0.00271	0.150	<0.00271	<0.00271
dissolved		na	<0.00271	<0.00271	na	<0.00271	<0.00271	na	<0.00271	<0.00271
Manganese, total	1.1	7.75	1.64	na	2.06	0.288	na	5.23	0.968	na
dissolved		na	0.288	na	na	0.288	na	na	0.906	na
Mercury, total	0.002	<0.0005	<0.000028	<0.000028	<0.0005	<0.000028	<0.000028	<0.0005	<0.000028	<0.000028
dissolved		na	<0.000028	<0.000028	na	<0.000028	<0.000028	na	<0.000028	<0.000028
Selenium, total	0.05	<0.040	<0.0047	<0.0047	<0.040	<0.0047	<0.0047	<0.040	0.0048J	<0.0047
dissolved		na	<0.0047	<0.0047	na	<0.0047	<0.0047	na	<0.0047	<0.0047
Silver, total	0.12	<0.010	0.00090J	<0.00083	<0.010	0.0014J	<0.00083	<0.010	0.0012J	<0.00083
dissolved		na	0.0015J	<0.00083	na	0.00150J	<0.00083	na	0.00090J	<0.00083
Zinc, total	7.3	0.560	<0.0004	na	0.340	<0.0004	na	0.550	<0.0004	na
dissolved		na	<0.0004	na	na	<0.0004	na	na	<0.0004	na

Notes:

na = Not analyzed

ND - Not detected

= Detected concentration is above T

APPENDIX B
FIGURES

APPENDIX C
ANALYICAL LABORATORY REPORTS

Certes

Environmental Laboratories, L.L.C. Analytical Service Report

Prepared for:

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin, TX 78759

RE Project ID:

Zilker Park
803957

Attention:

Martin Romanak
07 April 2004

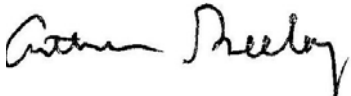
Certes Sample Number

0400367

Included are the results of chemical analyses for the samples submitted to Certes Environmental Laboratories, L.L.C. received by the laboratory on 02/02/04 10:40. I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements used, except where noted by the laboratory in the attached exception reports. I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

This report must be reproduced in its entirety.

Sincerely,



Arthur Greeley, Ph.D. Technical Director

Gale Denman
Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

ANALYTICAL REPORT FOR SAMPLES FROM CERTES ENVIRONMENTAL LABORATORIES, LLC

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	0400367-01	Liquid	01/30/04 10:15	02/02/04 10:40
MW-2	0400367-02	Liquid	01/29/04 15:00	02/02/04 10:40
MW-3	0400367-03	Liquid	01/29/04 16:55	02/02/04 10:40
MW-5	0400367-04	Liquid	01/30/04 15:15	02/02/04 10:40
MW-6	0400367-05	Liquid	01/30/04 13:50	02/02/04 10:40
MW-7	0400367-06	Liquid	01/30/04 11:30	02/02/04 10:40

Certes Environmental Laboratories, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

**Metals by EPA 6000/7000 Series Methods
Certes Environmental Laboratories, LLC**

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-1 (0400367-01) Liquid Sampled: 01/30/04 10:15 Received: 02/02/04 10:40 Analyzed by: DWT

Mercury	< 0.000028	0.0000280	0.000028	0.0001	mg/L	1	02/07/04	02/07/04	EPA 7470A	
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MW-2 (0400367-02) Liquid Sampled: 01/29/04 15:00 Received: 02/02/04 10:40 Analyzed by: DWT

Mercury	< 0.000028	0.0000280	0.000028	0.0001	mg/L	1	02/07/04	02/07/04	EPA 7470A	
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MW-3 (0400367-03) Liquid Sampled: 01/29/04 16:55 Received: 02/02/04 10:40 Analyzed by: DWT

Mercury	< 0.000028	0.0000280	0.000028	0.0001	mg/L	1	02/07/04	02/07/04	EPA 7470A	
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MW-5 (0400367-04) Liquid Sampled: 01/30/04 15:15 Received: 02/02/04 10:40 Analyzed by: DWT

Mercury	< 0.000028	0.0000280	0.000028	0.0001	mg/L	1	02/07/04	02/07/04	EPA 7470A	
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MW-6 (0400367-05) Liquid Sampled: 01/30/04 13:50 Received: 02/02/04 10:40 Analyzed by: DWT

Mercury	< 0.000028	0.0000280	0.000028	0.0001	mg/L	1	02/07/04	02/07/04	EPA 7470A	
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MW-7 (0400367-06) Liquid Sampled: 01/30/04 11:30 Received: 02/02/04 10:40 Analyzed by: DWT

Mercury	< 0.000028	0.0000280	0.000028	0.0001	mg/L	1	02/07/04	02/07/04	EPA 7470A	
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Certes Environmental Laboratories, LLC

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Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Metals (Dissolved) by EPA 6000/7000 Series Methods
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-1 (0400367-01) Liquid Sampled: 01/30/04 10:15 Received: 02/02/04 10:40 Analyzed by: DWT

Mercury < 0.000028 0.0000280 0.000028 0.0001 mg/L 1 02/04/04 02/04/04 EPA 7470A

MW-2 (0400367-02) Liquid Sampled: 01/29/04 15:00 Received: 02/02/04 10:40 Analyzed by: DWT

Mercury < 0.000028 0.0000280 0.000028 0.0001 mg/L 1 02/04/04 02/04/04 EPA 7470A

MW-3 (0400367-03) Liquid Sampled: 01/29/04 16:55 Received: 02/02/04 10:40 Analyzed by: DWT

Mercury **0.000100** 0.0000280 0.000028 0.0001 mg/L 1 02/04/04 02/04/04 EPA 7470A

MW-5 (0400367-04) Liquid Sampled: 01/30/04 15:15 Received: 02/02/04 10:40 Analyzed by: DWT

Mercury < 0.000028 0.0000280 0.000028 0.0001 mg/L 1 02/04/04 02/04/04 EPA 7470A

MW-6 (0400367-05) Liquid Sampled: 01/30/04 13:50 Received: 02/02/04 10:40 Analyzed by: DWT

Mercury < 0.000028 0.0000280 0.000028 0.0001 mg/L 1 02/04/04 02/04/04 EPA 7470A

MW-7 (0400367-06) Liquid Sampled: 01/30/04 11:30 Received: 02/02/04 10:40 Analyzed by: DWT

Mercury < 0.000028 0.0000280 0.000028 0.0001 mg/L 1 02/04/04 02/04/04 EPA 7470A

Certes Environmental Laboratories, LLC

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

**RCRA Metals by EPA 6000/7000 Series Methods
 Certes Environmental Laboratories, LLC**

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-1 (0400367-01) Liquid Sampled: 01/30/04 10:15 Received: 02/02/04 10:40 Analyzed by: DWT

Arsenic	0.00410	0.00340	0.0024	0.01	mg/L	1	02/04/04	02/04/04	EPA 6010B	J
Barium	0.348	0.00330	0.00036	0.01	"	"	"	"	"	
Cadmium	< 0.0004	0.00170	0.0004	0.005	"	"	"	"	"	
Chromium	0.000500	0.00170	0.0005	0.005	"	"	"	"	"	J
Lead	0.00840	0.00380	0.00271	0.015	"	"	"	"	"	J
Selenium	0.00560	0.0133	0.0047	0.04	"	"	"	"	"	J
Silver	< 0.00083	0.00130	0.00083	0.01	"	"	"	"	"	

MW-2 (0400367-02) Liquid Sampled: 01/29/04 15:00 Received: 02/02/04 10:40 Analyzed by: DWT

Arsenic	< 0.0024	0.00340	0.0024	0.01	mg/L	1	02/04/04	02/04/04	EPA 6010B	
Barium	0.110	0.00330	0.00036	0.01	"	"	"	"	"	
Cadmium	< 0.0004	0.00170	0.0004	0.005	"	"	"	"	"	
Chromium	0.00240	0.00170	0.0005	0.005	"	"	"	"	"	J
Lead	< 0.00271	0.00380	0.00271	0.015	"	"	"	"	"	
Selenium	< 0.0047	0.0133	0.0047	0.04	"	"	"	"	"	
Silver	< 0.00083	0.00130	0.00083	0.01	"	"	"	"	"	

MW-3 (0400367-03) Liquid Sampled: 01/29/04 16:55 Received: 02/02/04 10:40 Analyzed by: DWT

Arsenic	0.0214	0.00340	0.0024	0.01	mg/L	1	02/04/04	02/04/04	EPA 6010B	
Barium	0.194	0.00330	0.00036	0.01	"	"	"	"	"	
Cadmium	< 0.0004	0.00170	0.0004	0.005	"	"	"	"	"	
Chromium	0.00120	0.00170	0.0005	0.005	"	"	"	"	"	J
Lead	< 0.00271	0.00380	0.00271	0.015	"	"	"	"	"	
Selenium	< 0.0047	0.0133	0.0047	0.04	"	"	"	"	"	
Silver	< 0.00083	0.00130	0.00083	0.01	"	"	"	"	"	

Certes Environmental Laboratories, LLC

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Gale Denman

Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

**RCRA Metals by EPA 6000/7000 Series Methods
 Certes Environmental Laboratories, LLC**

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-5 (0400367-04) Liquid Sampled: 01/30/04 15:15 Received: 02/02/04 10:40 Analyzed by: DWT

Arsenic	0.0506	0.00340	0.0024	0.01	mg/L	1	02/04/04	02/04/04	EPA 6010B	
Barium	0.469	0.00330	0.00036	0.01	"	"	"	"	"	
Cadmium	< 0.0004	0.00170	0.0004	0.005	"	"	"	"	"	
Chromium	0.00100	0.00170	0.0005	0.005	"	"	"	"	"	J
Lead	< 0.00271	0.00380	0.00271	0.015	"	"	"	"	"	
Selenium	< 0.0047	0.0133	0.0047	0.04	"	"	"	"	"	
Silver	< 0.00083	0.00130	0.00083	0.01	"	"	"	"	"	

MW-6 (0400367-05) Liquid Sampled: 01/30/04 13:50 Received: 02/02/04 10:40 Analyzed by: DWT

Arsenic	0.00540	0.00340	0.0024	0.01	mg/L	1	02/04/04	02/04/04	EPA 6010B	J
Barium	0.356	0.00330	0.00036	0.01	"	"	"	"	"	
Cadmium	< 0.0004	0.00170	0.0004	0.005	"	"	"	"	"	
Chromium	< 0.0005	0.00170	0.0005	0.005	"	"	"	"	"	
Lead	< 0.00271	0.00380	0.00271	0.015	"	"	"	"	"	
Selenium	< 0.0047	0.0133	0.0047	0.04	"	"	"	"	"	
Silver	< 0.00083	0.00130	0.00083	0.01	"	"	"	"	"	

MW-7 (0400367-06) Liquid Sampled: 01/30/04 11:30 Received: 02/02/04 10:40 Analyzed by: DWT

Arsenic	0.0131	0.00340	0.0024	0.01	mg/L	1	02/04/04	02/04/04	EPA 6010B	
Barium	0.211	0.00330	0.00036	0.01	"	"	"	"	"	
Cadmium	< 0.0004	0.00170	0.0004	0.005	"	"	"	"	"	
Chromium	0.00100	0.00170	0.0005	0.005	"	"	"	"	"	J
Lead	< 0.00271	0.00380	0.00271	0.015	"	"	"	"	"	
Selenium	< 0.0047	0.0133	0.0047	0.04	"	"	"	"	"	
Silver	< 0.00083	0.00130	0.00083	0.01	"	"	"	"	"	

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

**RCRA Metals (Dissolved) by EPA 6000/7000 Series Methods
 Certes Environmental Laboratories, LLC**

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-1 (0400367-01) Liquid Sampled: 01/30/04 10:15 Received: 02/02/04 10:40 Analyzed by: DWT

Arsenic	< 0.0024	0.00340	0.0024	0.05	mg/L	1	02/03/04	02/04/04	EPA 6010B	
Barium	0.372	0.00330	0.00036	0.01	"	"	"	"	"	
Cadmium	< 0.0004	0.00170	0.0004	0.005	"	"	"	"	"	
Chromium	< 0.0005	0.00170	0.0005	0.005	"	"	"	"	"	
Lead	< 0.00271	0.00380	0.00271	0.015	"	"	"	"	"	
Selenium	< 0.0047	0.0133	0.0047	0.05	"	"	"	"	"	
Silver	0.00400	0.00130	0.00083	0.01	"	"	"	"	"	J

MW-2 (0400367-02) Liquid Sampled: 01/29/04 15:00 Received: 02/02/04 10:40 Analyzed by: DWT

Arsenic	0.00280	0.00340	0.0024	0.05	mg/L	1	02/03/04	02/04/04	EPA 6010B	J
Barium	0.107	0.00330	0.00036	0.01	"	"	"	"	"	
Cadmium	< 0.0004	0.00170	0.0004	0.005	"	"	"	"	"	
Chromium	0.00120	0.00170	0.0005	0.005	"	"	"	"	"	J
Lead	< 0.00271	0.00380	0.00271	0.015	"	"	"	"	"	
Selenium	< 0.0047	0.0133	0.0047	0.05	"	"	"	"	"	
Silver	< 0.00083	0.00130	0.00083	0.01	"	"	"	"	"	

MW-3 (0400367-03) Liquid Sampled: 01/29/04 16:55 Received: 02/02/04 10:40 Analyzed by: DWT

Arsenic	0.0139	0.00340	0.0024	0.05	mg/L	1	02/03/04	02/04/04	EPA 6010B	J
Barium	0.169	0.00330	0.00036	0.01	"	"	"	"	"	
Cadmium	< 0.0004	0.00170	0.0004	0.005	"	"	"	"	"	
Chromium	< 0.0005	0.00170	0.0005	0.005	"	"	"	"	"	
Lead	< 0.00271	0.00380	0.00271	0.015	"	"	"	"	"	
Selenium	< 0.0047	0.0133	0.0047	0.05	"	"	"	"	"	
Silver	< 0.00083	0.00130	0.00083	0.01	"	"	"	"	"	

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

**RCRA Metals (Dissolved) by EPA 6000/7000 Series Methods
 Certes Environmental Laboratories, LLC**

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-5 (0400367-04) Liquid Sampled: 01/30/04 15:15 Received: 02/02/04 10:40 Analyzed by: DWT

Arsenic	0.0396	0.00340	0.0024	0.05	mg/L	1	02/03/04	02/04/04	EPA 6010B	J
Barium	0.379	0.00330	0.00036	0.01	"	"	"	"	"	
Cadmium	< 0.0004	0.00170	0.0004	0.005	"	"	"	"	"	
Chromium	0.000900	0.00170	0.0005	0.005	"	"	"	"	"	J
Lead	< 0.00271	0.00380	0.00271	0.015	"	"	"	"	"	
Selenium	< 0.0047	0.0133	0.0047	0.05	"	"	"	"	"	
Silver	< 0.00083	0.00130	0.00083	0.01	"	"	"	"	"	

MW-6 (0400367-05) Liquid Sampled: 01/30/04 13:50 Received: 02/02/04 10:40 Analyzed by: DWT

Arsenic	0.00440	0.00340	0.0024	0.05	mg/L	1	02/03/04	02/04/04	EPA 6010B	J
Barium	0.344	0.00330	0.00036	0.01	"	"	"	"	"	
Cadmium	< 0.0004	0.00170	0.0004	0.005	"	"	"	"	"	
Chromium	0.00110	0.00170	0.0005	0.005	"	"	"	"	"	J
Lead	< 0.00271	0.00380	0.00271	0.015	"	"	"	"	"	
Selenium	< 0.0047	0.0133	0.0047	0.05	"	"	"	"	"	
Silver	< 0.00083	0.00130	0.00083	0.01	"	"	"	"	"	

MW-7 (0400367-06) Liquid Sampled: 01/30/04 11:30 Received: 02/02/04 10:40 Analyzed by: DWT

Arsenic	0.0106	0.00340	0.0024	0.05	mg/L	1	02/03/04	02/04/04	EPA 6010B	J
Barium	0.187	0.00330	0.00036	0.01	"	"	"	"	"	
Cadmium	< 0.0004	0.00170	0.0004	0.005	"	"	"	"	"	
Chromium	< 0.0005	0.00170	0.0005	0.005	"	"	"	"	"	
Lead	< 0.00271	0.00380	0.00271	0.015	"	"	"	"	"	
Selenium	< 0.0047	0.0133	0.0047	0.05	"	"	"	"	"	
Silver	< 0.00083	0.00130	0.00083	0.01	"	"	"	"	"	

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Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
MW-1 (0400367-01) Liquid Sampled: 01/30/04 10:15 Received: 02/02/04 10:40 Analyzed by: YQL										
Acetone	< 0.00371	3.71	0.00371	0.1	mg/L	1	02/10/04	02/10/04	EPA 8260B	
Acrolein	< 0.00135	1.35	0.00135	0.1	"	"	"	"	"	
Acrylonitrile	< 0.0024	2.40	0.0024	0.1	"	"	"	"	"	
Benzene	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
1-Chloro-2-methyl-benzene	< 0.00107	1.07	0.00107	0.005	"	"	"	"	"	
1-Chloro-4-methyl-benzene	< 0.00087	0.870	0.00087	0.005	"	"	"	"	"	
Bromobenzene	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
Bromochloromethane	< 0.00077	0.770	0.00077	0.005	"	"	"	"	"	
Bromodichloromethane	< 0.0005	0.500	0.0005	0.005	"	"	"	"	"	
Bromoform	< 0.00077	0.770	0.00077	0.005	"	"	"	"	"	
Bromomethane	< 0.00205	2.05	0.00205	0.01	"	"	"	"	"	
2-Butanone	< 0.00226	2.26	0.00226	0.05	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	< 0.00138	1.38	0.00138	0.005	"	"	"	"	"	
n-Butylbenzene	< 0.00087	0.870	0.00087	0.005	"	"	"	"	"	
sec-Butylbenzene	< 0.00105	1.05	0.00105	0.005	"	"	"	"	"	
tert-Butylbenzene	< 0.00071	0.710	0.00071	0.005	"	"	"	"	"	
Methyltert-butylether	< 0.001	1.00	0.001	0.005	"	"	"	"	"	
Carbon disulfide	< 0.00062	0.620	0.00062	0.1	"	"	"	"	"	
Carbon tetrachloride	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
Chlorobenzene	0.00185	0.590	0.00059	0.005	"	"	"	"	"	J
Chloroethane	< 0.00121	1.21	0.00121	0.005	"	"	"	"	"	
2-Chloroethylvinylether	< 0.0114	11.4	0.0114	0.015	"	"	"	"	"	
Chloroform	< 0.00203	2.03	0.00203	0.005	"	"	"	"	"	
Chloromethane	< 0.00068	0.680	0.00068	0.01	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	< 0.0021	2.10	0.0021	0.005	"	"	"	"	"	
Dibromochloromethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
1,2-Dibromoethane	< 0.00114	1.14	0.00114	0.01	"	"	"	"	"	
Dibromomethane	< 0.00103	1.03	0.00103	0.005	"	"	"	"	"	
1,2-Dichlorobenzene	< 0.00097	0.970	0.00097	0.005	"	"	"	"	"	
1,3-Dichlorobenzene	< 0.00166	1.66	0.00166	0.005	"	"	"	"	"	
1,4-Dichlorobenzene	< 0.00067	0.670	0.00067	0.005	"	"	"	"	"	
Dichlorodifluoromethane	< 0.00122	1.22	0.00122	0.005	"	"	"	"	"	
1,1-Dichloroethane	< 0.00085	0.850	0.00085	0.005	"	"	"	"	"	
1,2-Dichloroethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
1,1-Dichloroethene	< 0.00068	0.680	0.00068	0.005	"	"	"	"	"	

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
MW-1 (0400367-01) Liquid Sampled: 01/30/04 10:15 Received: 02/02/04 10:40 Analyzed by: YQL										
cis-1,2-Dichloroethene	< 0.00094	0.940	0.00094	0.005	"	"	"	"	"	"
trans-1,2-Dichloroethene	< 0.0008	0.800	0.0008	0.005	"	"	"	"	"	"
1,2-Dichloropropane	< 0.00146	1.46	0.00146	0.005	"	"	"	"	"	"
1,3-Dichloropropane	< 0.00085	0.850	0.00085	0.005	"	"	"	"	"	"
2,2-Dichloropropane	< 0.00064	0.640	0.00064	0.005	"	"	"	"	"	"
1,1-Dichloropropene	< 0.00118	1.18	0.00118	0.005	"	"	"	"	"	"
cis-1,3-Dichloropropene	< 0.00118	1.18	0.00118	0.005	"	"	"	"	"	"
trans-1,3-Dichloropropene	< 0.00072	0.720	0.00072	0.005	"	"	"	"	"	"
Ethylbenzene	< 0.00073	0.730	0.00073	0.005	"	"	"	"	"	"
Hexachlorobutadiene	< 0.00126	1.26	0.00126	0.005	"	"	"	"	"	"
2-Hexanone	< 0.00217	2.17	0.00217	0.05	"	"	"	"	"	"
Isopropylbenzene	< 0.00164	1.64	0.00164	0.005	"	"	"	"	"	"
p-Isopropyltoluene	< 0.00103	1.03	0.00103	0.005	"	"	"	"	"	"
Methyl iodide	< 0.00201	2.01	0.00201	0.005	"	"	"	"	"	"
Methylene chloride	< 0.00082	0.820	0.00082	0.01	"	"	"	"	"	"
Naphthalene	< 0.00184	1.84	0.00184	0.005	"	"	"	"	"	"
4-Methyl-2-pentanone	< 0.00148	1.48	0.00148	0.05	"	"	"	"	"	"
N-Propylbenzene	< 0.00107	1.07	0.00107	0.005	"	"	"	"	"	"
Styrene	< 0.00071	0.710	0.00071	0.005	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	< 0.00083	0.830	0.00083	0.005	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	< 0.00151	1.51	0.00151	0.005	"	"	"	"	"	"
Tetrachloroethene	< 0.00099	0.989	0.00099	0.005	"	"	"	"	"	"
Toluene	< 0.00144	1.44	0.00144	0.005	"	"	"	"	"	"
1,2,3-Trichlorobenzene	< 0.00148	1.48	0.00148	0.005	"	"	"	"	"	"
1,2,4-Trichlorobenzene	< 0.0014	1.40	0.0014	0.005	"	"	"	"	"	"
1,1,1-Trichloroethane	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	"
1,1,2-Trichloroethane	< 0.00133	1.33	0.00133	0.005	"	"	"	"	"	"
Trichloroethene	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	"
Trichlorofluoromethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	"
1,2,3-Trichloropropane	< 0.00139	1.39	0.00139	0.005	"	"	"	"	"	"
1,2,4-Trimethylbenzene	< 0.00079	0.790	0.00079	0.005	"	"	"	"	"	"
1,3,5-Trimethylbenzene	< 0.0011	1.10	0.0011	0.005	"	"	"	"	"	"
Vinyl acetate	< 0.0021	2.10	0.0021	0.05	"	"	"	"	"	"
Vinyl chloride	< 0.00086	0.860	0.00086	0.002	"	"	"	"	"	"
Xylenes total	< 0.00208	2.08	0.00208	0.015	"	"	"	"	"	"

Certes Environmental Laboratories, LLC

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-1 (0400367-01) Liquid Sampled: 01/30/04 10:15 Received: 02/02/04 10:40 Analyzed by: YQL

Surrogate: 4-Bromofluorobenzene	112 %		76-122		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	120 %		75-125		"	"	"	"	"	
Surrogate: Toluene-d8	97.6 %		79-120		"	"	"	"	"	
Surrogate: Dibromofluoromethane	112 %		81-125		"	"	"	"	"	

MW-2 (0400367-02) Liquid Sampled: 01/29/04 15:00 Received: 02/02/04 10:40 Analyzed by: YQL

Acetone	0.00781	3.71	0.00371	0.1	mg/L	1	02/10/04	02/10/04	EPA 8260B	J
Acrolein	< 0.00135	1.35	0.00135	0.1	"	"	"	"	"	
Acrylonitrile	< 0.0024	2.40	0.0024	0.1	"	"	"	"	"	
Benzene	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
1-Chloro-2-methyl-benzene	< 0.00107	1.07	0.00107	0.005	"	"	"	"	"	
1-Chloro-4-methyl-benzene	< 0.00087	0.870	0.00087	0.005	"	"	"	"	"	
Bromobenzene	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
Bromochloromethane	< 0.00077	0.770	0.00077	0.005	"	"	"	"	"	
Bromodichloromethane	< 0.0005	0.500	0.0005	0.005	"	"	"	"	"	
Bromoform	< 0.00077	0.770	0.00077	0.005	"	"	"	"	"	
Bromomethane	< 0.00205	2.05	0.00205	0.01	"	"	"	"	"	
2-Butanone	< 0.00226	2.26	0.00226	0.05	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	< 0.00138	1.38	0.00138	0.005	"	"	"	"	"	
n-Butylbenzene	< 0.00087	0.870	0.00087	0.005	"	"	"	"	"	
sec-Butylbenzene	< 0.00105	1.05	0.00105	0.005	"	"	"	"	"	
tert-Butylbenzene	< 0.00071	0.710	0.00071	0.005	"	"	"	"	"	
Methyltert-butylether	< 0.001	1.00	0.001	0.005	"	"	"	"	"	
Carbon disulfide	< 0.00062	0.620	0.00062	0.1	"	"	"	"	"	
Carbon tetrachloride	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
Chlorobenzene	< 0.00059	0.590	0.00059	0.005	"	"	"	"	"	
Chloroethane	< 0.00121	1.21	0.00121	0.005	"	"	"	"	"	
2-Chloroethylvinylether	< 0.0114	11.4	0.0114	0.015	"	"	"	"	"	
Chloroform	< 0.00203	2.03	0.00203	0.005	"	"	"	"	"	
Chloromethane	< 0.00068	0.680	0.00068	0.01	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	< 0.0021	2.10	0.0021	0.005	"	"	"	"	"	
Dibromochloromethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
1,2-Dibromoethane	< 0.00114	1.14	0.00114	0.01	"	"	"	"	"	
Dibromomethane	< 0.00103	1.03	0.00103	0.005	"	"	"	"	"	
1,2-Dichlorobenzene	< 0.00097	0.970	0.00097	0.005	"	"	"	"	"	

Certes Environmental Laboratories, LLC

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
MW-2 (0400367-02) Liquid Sampled: 01/29/04 15:00 Received: 02/02/04 10:40 Analyzed by: YQL										
1,3-Dichlorobenzene	< 0.00166	1.66	0.00166	0.005	"	"	"	"	"	
1,4-Dichlorobenzene	< 0.00067	0.670	0.00067	0.005	"	"	"	"	"	
Dichlorodifluoromethane	< 0.00122	1.22	0.00122	0.005	"	"	"	"	"	
1,1-Dichloroethane	< 0.00085	0.850	0.00085	0.005	"	"	"	"	"	
1,2-Dichloroethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
1,1-Dichloroethene	< 0.00068	0.680	0.00068	0.005	"	"	"	"	"	
cis-1,2-Dichloroethene	< 0.00094	0.940	0.00094	0.005	"	"	"	"	"	
trans-1,2-Dichloroethene	< 0.0008	0.800	0.0008	0.005	"	"	"	"	"	
1,2-Dichloropropane	< 0.00146	1.46	0.00146	0.005	"	"	"	"	"	
1,3-Dichloropropane	< 0.00085	0.850	0.00085	0.005	"	"	"	"	"	
2,2-Dichloropropane	< 0.00064	0.640	0.00064	0.005	"	"	"	"	"	
1,1-Dichloropropene	< 0.00118	1.18	0.00118	0.005	"	"	"	"	"	
cis-1,3-Dichloropropene	< 0.00118	1.18	0.00118	0.005	"	"	"	"	"	
trans-1,3-Dichloropropene	< 0.00072	0.720	0.00072	0.005	"	"	"	"	"	
Ethylbenzene	< 0.00073	0.730	0.00073	0.005	"	"	"	"	"	
Hexachlorobutadiene	< 0.00126	1.26	0.00126	0.005	"	"	"	"	"	
2-Hexanone	< 0.00217	2.17	0.00217	0.05	"	"	"	"	"	
Isopropylbenzene	< 0.00164	1.64	0.00164	0.005	"	"	"	"	"	
p-Isopropyltoluene	< 0.00103	1.03	0.00103	0.005	"	"	"	"	"	
Methyl iodide	< 0.00201	2.01	0.00201	0.005	"	"	"	"	"	
Methylene chloride	0.00105	0.820	0.00082	0.01	"	"	"	"	"	J
Naphthalene	< 0.00184	1.84	0.00184	0.005	"	"	"	"	"	
4-Methyl-2-pentanone	< 0.00148	1.48	0.00148	0.05	"	"	"	"	"	
N-Propylbenzene	< 0.00107	1.07	0.00107	0.005	"	"	"	"	"	
Styrene	< 0.00071	0.710	0.00071	0.005	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	< 0.00083	0.830	0.00083	0.005	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	< 0.00151	1.51	0.00151	0.005	"	"	"	"	"	
Tetrachloroethene	< 0.00099	0.989	0.00099	0.005	"	"	"	"	"	
Toluene	< 0.00144	1.44	0.00144	0.005	"	"	"	"	"	
1,2,3-Trichlorobenzene	< 0.00148	1.48	0.00148	0.005	"	"	"	"	"	
1,2,4-Trichlorobenzene	< 0.0014	1.40	0.0014	0.005	"	"	"	"	"	
1,1,1-Trichloroethane	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
1,1,2-Trichloroethane	< 0.00133	1.33	0.00133	0.005	"	"	"	"	"	
Trichloroethene	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
Trichlorofluoromethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	

Certes Environmental Laboratories, LLC

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Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-2 (0400367-02) Liquid Sampled: 01/29/04 15:00 Received: 02/02/04 10:40 Analyzed by: YQL

1,2,3-Trichloropropane	< 0.00139	1.39	0.00139	0.005	"	"	"	"	"	
1,2,4-Trimethylbenzene	< 0.00079	0.790	0.00079	0.005	"	"	"	"	"	
1,3,5-Trimethylbenzene	< 0.0011	1.10	0.0011	0.005	"	"	"	"	"	
Vinyl acetate	< 0.0021	2.10	0.0021	0.05	"	"	"	"	"	
Vinyl chloride	< 0.00086	0.860	0.00086	0.002	"	"	"	"	"	
Xylenes total	< 0.00208	2.08	0.00208	0.015	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %		76-122		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	124 %		75-125		"	"	"	"	"	
Surrogate: Toluene-d8	102 %		79-120		"	"	"	"	"	
Surrogate: Dibromofluoromethane	122 %		81-125		"	"	"	"	"	

MW-3 (0400367-03) Liquid Sampled: 01/29/04 16:55 Received: 02/02/04 10:40 Analyzed by: YQL

Acetone	0.0319	3.71	0.00371	0.1	mg/L	1	02/09/04	02/10/04	EPA 8260B	J
Acrolein	< 0.00135	1.35	0.00135	0.1	"	"	"	"	"	
Acrylonitrile	< 0.0024	2.40	0.0024	0.1	"	"	"	"	"	
Benzene	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
1-Chloro-2-methyl-benzene	< 0.00107	1.07	0.00107	0.005	"	"	"	"	"	
1-Chloro-4-methyl-benzene	< 0.00087	0.870	0.00087	0.005	"	"	"	"	"	
Bromobenzene	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
Bromochloromethane	< 0.00077	0.770	0.00077	0.005	"	"	"	"	"	
Bromodichloromethane	< 0.0005	0.500	0.0005	0.005	"	"	"	"	"	
Bromoform	< 0.00077	0.770	0.00077	0.005	"	"	"	"	"	
Bromomethane	< 0.00205	2.05	0.00205	0.01	"	"	"	"	"	
2-Butanone	0.00381	2.26	0.00226	0.05	"	"	"	"	"	J
trans-1,4-Dichloro-2-butene	< 0.00138	1.38	0.00138	0.005	"	"	"	"	"	
n-Butylbenzene	< 0.00087	0.870	0.00087	0.005	"	"	"	"	"	
sec-Butylbenzene	< 0.00105	1.05	0.00105	0.005	"	"	"	"	"	
tert-Butylbenzene	< 0.00071	0.710	0.00071	0.005	"	"	"	"	"	
Methyltert-butylether	< 0.001	1.00	0.001	0.005	"	"	"	"	"	
Carbon disulfide	< 0.00062	0.620	0.00062	0.1	"	"	"	"	"	
Carbon tetrachloride	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
Chlorobenzene	< 0.00059	0.590	0.00059	0.005	"	"	"	"	"	
Chloroethane	< 0.00121	1.21	0.00121	0.005	"	"	"	"	"	
2-Chloroethylvinylether	< 0.0114	11.4	0.0114	0.015	"	"	"	"	"	
Chloroform	< 0.00203	2.03	0.00203	0.005	"	"	"	"	"	

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
MW-3 (0400367-03) Liquid Sampled: 01/29/04 16:55 Received: 02/02/04 10:40 Analyzed by: YQL										
Chloromethane	< 0.00068	0.680	0.00068	0.01	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	< 0.0021	2.10	0.0021	0.005	"	"	"	"	"	
Dibromochloromethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
1,2-Dibromoethane	< 0.00114	1.14	0.00114	0.01	"	"	"	"	"	
Dibromomethane	< 0.00103	1.03	0.00103	0.005	"	"	"	"	"	
1,2-Dichlorobenzene	< 0.00097	0.970	0.00097	0.005	"	"	"	"	"	
1,3-Dichlorobenzene	< 0.00166	1.66	0.00166	0.005	"	"	"	"	"	
1,4-Dichlorobenzene	< 0.00067	0.670	0.00067	0.005	"	"	"	"	"	
Dichlorodifluoromethane	< 0.00122	1.22	0.00122	0.005	"	"	"	"	"	
1,1-Dichloroethane	< 0.00085	0.850	0.00085	0.005	"	"	"	"	"	
1,2-Dichloroethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
1,1-Dichloroethene	< 0.00068	0.680	0.00068	0.005	"	"	"	"	"	
cis-1,2-Dichloroethene	< 0.00094	0.940	0.00094	0.005	"	"	"	"	"	
trans-1,2-Dichloroethene	< 0.0008	0.800	0.0008	0.005	"	"	"	"	"	
1,2-Dichloropropane	< 0.00146	1.46	0.00146	0.005	"	"	"	"	"	
1,3-Dichloropropane	< 0.00085	0.850	0.00085	0.005	"	"	"	"	"	
2,2-Dichloropropane	< 0.00064	0.640	0.00064	0.005	"	"	"	"	"	
1,1-Dichloropropene	< 0.00118	1.18	0.00118	0.005	"	"	"	"	"	
cis-1,3-Dichloropropene	< 0.00118	1.18	0.00118	0.005	"	"	"	"	"	
trans-1,3-Dichloropropene	< 0.00072	0.720	0.00072	0.005	"	"	"	"	"	
Ethylbenzene	< 0.00073	0.730	0.00073	0.005	"	"	"	"	"	
Hexachlorobutadiene	< 0.00126	1.26	0.00126	0.005	"	"	"	"	"	
2-Hexanone	< 0.00217	2.17	0.00217	0.05	"	"	"	"	"	
Isopropylbenzene	< 0.00164	1.64	0.00164	0.005	"	"	"	"	"	
p-Isopropyltoluene	< 0.00103	1.03	0.00103	0.005	"	"	"	"	"	
Methyl iodide	< 0.00201	2.01	0.00201	0.005	"	"	"	"	"	
Methylene chloride	0.00102	0.820	0.00082	0.01	"	"	"	"	"	J
Naphthalene	< 0.00184	1.84	0.00184	0.005	"	"	"	"	"	
4-Methyl-2-pentanone	< 0.00148	1.48	0.00148	0.05	"	"	"	"	"	
N-Propylbenzene	< 0.00107	1.07	0.00107	0.005	"	"	"	"	"	
Styrene	< 0.00071	0.710	0.00071	0.005	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	< 0.00083	0.830	0.00083	0.005	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	< 0.00151	1.51	0.00151	0.005	"	"	"	"	"	
Tetrachloroethene	< 0.00099	0.989	0.00099	0.005	"	"	"	"	"	
Toluene	< 0.00144	1.44	0.00144	0.005	"	"	"	"	"	

Certes Environmental Laboratories, LLC

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Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-3 (0400367-03) Liquid Sampled: 01/29/04 16:55 Received: 02/02/04 10:40 Analyzed by: YQL

1,2,3-Trichlorobenzene	< 0.00148	1.48	0.00148	0.005	"	"	"	"	"	
1,2,4-Trichlorobenzene	< 0.0014	1.40	0.0014	0.005	"	"	"	"	"	
1,1,1-Trichloroethane	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
1,1,2-Trichloroethane	< 0.00133	1.33	0.00133	0.005	"	"	"	"	"	
Trichloroethene	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
Trichlorofluoromethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
1,2,3-Trichloropropane	< 0.00139	1.39	0.00139	0.005	"	"	"	"	"	
1,2,4-Trimethylbenzene	< 0.00079	0.790	0.00079	0.005	"	"	"	"	"	
1,3,5-Trimethylbenzene	< 0.0011	1.10	0.0011	0.005	"	"	"	"	"	
Vinyl acetate	< 0.0021	2.10	0.0021	0.05	"	"	"	"	"	
Vinyl chloride	< 0.00086	0.860	0.00086	0.002	"	"	"	"	"	
Xylenes total	< 0.00208	2.08	0.00208	0.015	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %		76-122		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	126 %		75-125		"	"	"	"	"	M
Surrogate: Toluene-d8	96.8 %		79-120		"	"	"	"	"	
Surrogate: Dibromofluoromethane	122 %		81-125		"	"	"	"	"	

MW-5 (0400367-04) Liquid Sampled: 01/30/04 15:15 Received: 02/02/04 10:40 Analyzed by: YQL

Acetone	0.00988	3.71	0.00371	0.1	mg/L	1	02/10/04	02/10/04	EPA 8260B	J
Acrolein	< 0.00135	1.35	0.00135	0.1	"	"	"	"	"	
Acrylonitrile	< 0.0024	2.40	0.0024	0.1	"	"	"	"	"	
Benzene	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
1-Chloro-2-methyl-benzene	< 0.00107	1.07	0.00107	0.005	"	"	"	"	"	
1-Chloro-4-methyl-benzene	< 0.00087	0.870	0.00087	0.005	"	"	"	"	"	
Bromobenzene	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
Bromochloromethane	< 0.00077	0.770	0.00077	0.005	"	"	"	"	"	
Bromodichloromethane	< 0.0005	0.500	0.0005	0.005	"	"	"	"	"	
Bromoform	< 0.00077	0.770	0.00077	0.005	"	"	"	"	"	
Bromomethane	< 0.00205	2.05	0.00205	0.01	"	"	"	"	"	
2-Butanone	< 0.00226	2.26	0.00226	0.05	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	< 0.00138	1.38	0.00138	0.005	"	"	"	"	"	
n-Butylbenzene	< 0.00087	0.870	0.00087	0.005	"	"	"	"	"	
sec-Butylbenzene	< 0.00105	1.05	0.00105	0.005	"	"	"	"	"	
tert-Butylbenzene	< 0.00071	0.710	0.00071	0.005	"	"	"	"	"	
Methyltert-butylether	< 0.001	1.00	0.001	0.005	"	"	"	"	"	

Certes Environmental Laboratories, LLC

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-5 (0400367-04) Liquid Sampled: 01/30/04 15:15 Received: 02/02/04 10:40 Analyzed by: YQL

Carbon disulfide	< 0.00062	0.620	0.00062	0.1	"	"	"	"	"	
Carbon tetrachloride	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
Chlorobenzene	< 0.00059	0.590	0.00059	0.005	"	"	"	"	"	
Chloroethane	< 0.00121	1.21	0.00121	0.005	"	"	"	"	"	
2-Chloroethylvinylether	< 0.0114	11.4	0.0114	0.015	"	"	"	"	"	
Chloroform	< 0.00203	2.03	0.00203	0.005	"	"	"	"	"	
Chloromethane	< 0.00068	0.680	0.00068	0.01	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	< 0.0021	2.10	0.0021	0.005	"	"	"	"	"	
Dibromochloromethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
1,2-Dibromoethane	< 0.00114	1.14	0.00114	0.01	"	"	"	"	"	
Dibromomethane	< 0.00103	1.03	0.00103	0.005	"	"	"	"	"	
1,2-Dichlorobenzene	< 0.00097	0.970	0.00097	0.005	"	"	"	"	"	
1,3-Dichlorobenzene	< 0.00166	1.66	0.00166	0.005	"	"	"	"	"	
1,4-Dichlorobenzene	< 0.00067	0.670	0.00067	0.005	"	"	"	"	"	
Dichlorodifluoromethane	< 0.00122	1.22	0.00122	0.005	"	"	"	"	"	
1,1-Dichloroethane	< 0.00085	0.850	0.00085	0.005	"	"	"	"	"	
1,2-Dichloroethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
1,1-Dichloroethene	< 0.00068	0.680	0.00068	0.005	"	"	"	"	"	
cis-1,2-Dichloroethene	< 0.00094	0.940	0.00094	0.005	"	"	"	"	"	
trans-1,2-Dichloroethene	< 0.0008	0.800	0.0008	0.005	"	"	"	"	"	
1,2-Dichloropropane	< 0.00146	1.46	0.00146	0.005	"	"	"	"	"	
1,3-Dichloropropane	< 0.00085	0.850	0.00085	0.005	"	"	"	"	"	
2,2-Dichloropropane	< 0.00064	0.640	0.00064	0.005	"	"	"	"	"	
1,1-Dichloropropene	< 0.00118	1.18	0.00118	0.005	"	"	"	"	"	
cis-1,3-Dichloropropene	< 0.00118	1.18	0.00118	0.005	"	"	"	"	"	
trans-1,3-Dichloropropene	< 0.00072	0.720	0.00072	0.005	"	"	"	"	"	
Ethylbenzene	< 0.00073	0.730	0.00073	0.005	"	"	"	"	"	
Hexachlorobutadiene	< 0.00126	1.26	0.00126	0.005	"	"	"	"	"	
2-Hexanone	< 0.00217	2.17	0.00217	0.05	"	"	"	"	"	
Isopropylbenzene	< 0.00164	1.64	0.00164	0.005	"	"	"	"	"	
p-Isopropyltoluene	< 0.00103	1.03	0.00103	0.005	"	"	"	"	"	
Methyl iodide	< 0.00201	2.01	0.00201	0.005	"	"	"	"	"	
Methylene chloride	< 0.00082	0.820	0.00082	0.01	"	"	"	"	"	
Naphthalene	< 0.00184	1.84	0.00184	0.005	"	"	"	"	"	
4-Methyl-2-pentanone	< 0.00148	1.48	0.00148	0.05	"	"	"	"	"	

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Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-5 (0400367-04) Liquid Sampled: 01/30/04 15:15 Received: 02/02/04 10:40 Analyzed by: YQL

N-Propylbenzene	< 0.00107	1.07	0.00107	0.005	"	"	"	"	"	
Styrene	< 0.00071	0.710	0.00071	0.005	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	< 0.00083	0.830	0.00083	0.005	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	< 0.00151	1.51	0.00151	0.005	"	"	"	"	"	
Tetrachloroethene	< 0.00099	0.989	0.00099	0.005	"	"	"	"	"	
Toluene	< 0.00144	1.44	0.00144	0.005	"	"	"	"	"	
1,2,3-Trichlorobenzene	< 0.00148	1.48	0.00148	0.005	"	"	"	"	"	
1,2,4-Trichlorobenzene	< 0.0014	1.40	0.0014	0.005	"	"	"	"	"	
1,1,1-Trichloroethane	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
1,1,2-Trichloroethane	< 0.00133	1.33	0.00133	0.005	"	"	"	"	"	
Trichloroethene	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
Trichlorofluoromethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
1,2,3-Trichloropropane	< 0.00139	1.39	0.00139	0.005	"	"	"	"	"	
1,2,4-Trimethylbenzene	< 0.00079	0.790	0.00079	0.005	"	"	"	"	"	
1,3,5-Trimethylbenzene	< 0.0011	1.10	0.0011	0.005	"	"	"	"	"	
Vinyl acetate	< 0.0021	2.10	0.0021	0.05	"	"	"	"	"	
Vinyl chloride	0.000890	0.860	0.00086	0.002	"	"	"	"	"	J
Xylenes total	< 0.00208	2.08	0.00208	0.015	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene	117 %		76-122		"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	128 %		75-125		"	"	"	"	"	M
Surrogate: Toluene-d8	101 %		79-120		"	"	"	"	"	
Surrogate: Dibromofluoromethane	120 %		81-125		"	"	"	"	"	

MW-6 (0400367-05) Liquid Sampled: 01/30/04 13:50 Received: 02/02/04 10:40 Analyzed by: YQL

Acetone	0.0130	3.71	0.00371	0.1	mg/L	1	02/10/04	02/10/04	EPA 8260B	J
Acrolein	< 0.00135	1.35	0.00135	0.1	"	"	"	"	"	
Acrylonitrile	< 0.0024	2.40	0.0024	0.1	"	"	"	"	"	
Benzene	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
1-Chloro-2-methyl-benzene	< 0.00107	1.07	0.00107	0.005	"	"	"	"	"	
1-Chloro-4-methyl-benzene	< 0.00087	0.870	0.00087	0.005	"	"	"	"	"	
Bromobenzene	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
Bromochloromethane	< 0.00077	0.770	0.00077	0.005	"	"	"	"	"	
Bromodichloromethane	< 0.0005	0.500	0.0005	0.005	"	"	"	"	"	
Bromoform	< 0.00077	0.770	0.00077	0.005	"	"	"	"	"	
Bromomethane	< 0.00205	2.05	0.00205	0.01	"	"	"	"	"	

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
MW-6 (0400367-05) Liquid Sampled: 01/30/04 13:50 Received: 02/02/04 10:40 Analyzed by: YQL										
2-Butanone	< 0.00226	2.26	0.00226	0.05	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	< 0.00138	1.38	0.00138	0.005	"	"	"	"	"	M
n-Butylbenzene	< 0.00087	0.870	0.00087	0.005	"	"	"	"	"	
sec-Butylbenzene	< 0.00105	1.05	0.00105	0.005	"	"	"	"	"	
tert-Butylbenzene	< 0.00071	0.710	0.00071	0.005	"	"	"	"	"	
Methyltert-butylether	< 0.001	1.00	0.001	0.005	"	"	"	"	"	
Carbon disulfide	< 0.00062	0.620	0.00062	0.1	"	"	"	"	"	
Carbon tetrachloride	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
Chlorobenzene	0.00863	0.590	0.00059	0.005	"	"	"	"	"	
Chloroethane	< 0.00121	1.21	0.00121	0.005	"	"	"	"	"	
2-Chloroethylvinylether	< 0.0114	11.4	0.0114	0.015	"	"	"	"	"	
Chloroform	< 0.00203	2.03	0.00203	0.005	"	"	"	"	"	
Chloromethane	< 0.00068	0.680	0.00068	0.01	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	< 0.0021	2.10	0.0021	0.005	"	"	"	"	"	
Dibromochloromethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
1,2-Dibromoethane	< 0.00114	1.14	0.00114	0.01	"	"	"	"	"	
Dibromomethane	< 0.00103	1.03	0.00103	0.005	"	"	"	"	"	
1,2-Dichlorobenzene	< 0.00097	0.970	0.00097	0.005	"	"	"	"	"	
1,3-Dichlorobenzene	< 0.00166	1.66	0.00166	0.005	"	"	"	"	"	
1,4-Dichlorobenzene	0.00171	0.670	0.00067	0.005	"	"	"	"	"	J
Dichlorodifluoromethane	< 0.00122	1.22	0.00122	0.005	"	"	"	"	"	
1,1-Dichloroethane	< 0.00085	0.850	0.00085	0.005	"	"	"	"	"	
1,2-Dichloroethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
1,1-Dichloroethene	< 0.00068	0.680	0.00068	0.005	"	"	"	"	"	
cis-1,2-Dichloroethene	< 0.00094	0.940	0.00094	0.005	"	"	"	"	"	
trans-1,2-Dichloroethene	< 0.0008	0.800	0.0008	0.005	"	"	"	"	"	
1,2-Dichloropropane	< 0.00146	1.46	0.00146	0.005	"	"	"	"	"	
1,3-Dichloropropane	< 0.00085	0.850	0.00085	0.005	"	"	"	"	"	
2,2-Dichloropropane	< 0.00064	0.640	0.00064	0.005	"	"	"	"	"	
1,1-Dichloropropene	< 0.00118	1.18	0.00118	0.005	"	"	"	"	"	
cis-1,3-Dichloropropene	< 0.00118	1.18	0.00118	0.005	"	"	"	"	"	
trans-1,3-Dichloropropene	< 0.00072	0.720	0.00072	0.005	"	"	"	"	"	
Ethylbenzene	< 0.00073	0.730	0.00073	0.005	"	"	"	"	"	
Hexachlorobutadiene	< 0.00126	1.26	0.00126	0.005	"	"	"	"	"	
2-Hexanone	< 0.00217	2.17	0.00217	0.05	"	"	"	"	"	

Certes Environmental Laboratories, LLC

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
MW-6 (0400367-05) Liquid Sampled: 01/30/04 13:50 Received: 02/02/04 10:40 Analyzed by: YQL										
Isopropylbenzene	< 0.00164	1.64	0.00164	0.005	"	"	"	"	"	
p-Isopropyltoluene	< 0.00103	1.03	0.00103	0.005	"	"	"	"	"	
Methyl iodide	< 0.00201	2.01	0.00201	0.005	"	"	"	"	"	
Methylene chloride	0.00144	0.820	0.00082	0.01	"	"	"	"	"	J
Naphthalene	< 0.00184	1.84	0.00184	0.005	"	"	"	"	"	
4-Methyl-2-pentanone	< 0.00148	1.48	0.00148	0.05	"	"	"	"	"	
N-Propylbenzene	< 0.00107	1.07	0.00107	0.005	"	"	"	"	"	
Styrene	< 0.00071	0.710	0.00071	0.005	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	< 0.00083	0.830	0.00083	0.005	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	< 0.00151	1.51	0.00151	0.005	"	"	"	"	"	
Tetrachloroethene	< 0.00099	0.989	0.00099	0.005	"	"	"	"	"	
Toluene	< 0.00144	1.44	0.00144	0.005	"	"	"	"	"	
1,2,3-Trichlorobenzene	< 0.00148	1.48	0.00148	0.005	"	"	"	"	"	
1,2,4-Trichlorobenzene	< 0.0014	1.40	0.0014	0.005	"	"	"	"	"	
1,1,1-Trichloroethane	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
1,1,2-Trichloroethane	< 0.00133	1.33	0.00133	0.005	"	"	"	"	"	
Trichloroethene	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
Trichlorofluoromethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
1,2,3-Trichloropropane	< 0.00139	1.39	0.00139	0.005	"	"	"	"	"	
1,2,4-Trimethylbenzene	< 0.00079	0.790	0.00079	0.005	"	"	"	"	"	
1,3,5-Trimethylbenzene	< 0.0011	1.10	0.0011	0.005	"	"	"	"	"	
Vinyl acetate	< 0.0021	2.10	0.0021	0.05	"	"	"	"	"	
Vinyl chloride	< 0.00086	0.860	0.00086	0.002	"	"	"	"	"	
Xylenes total	< 0.00208	2.08	0.00208	0.015	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>111 %</i>		<i>76-122</i>		"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>127 %</i>		<i>75-125</i>		"	"	"	"	"	M
<i>Surrogate: Toluene-d8</i>	<i>97.6 %</i>		<i>79-120</i>		"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>	<i>119 %</i>		<i>81-125</i>		"	"	"	"	"	

Certes Environmental Laboratories, LLC

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-7 (0400367-06) Liquid Sampled: 01/30/04 11:30 Received: 02/02/04 10:40 Analyzed by: YQL

Acetone	0.0101	3.71	0.00371	0.1	mg/L	1	02/10/04	02/10/04	EPA 8260B	J
Acrolein	< 0.00135	1.35	0.00135	0.1	"	"	"	"	"	
Acrylonitrile	< 0.0024	2.40	0.0024	0.1	"	"	"	"	"	
Benzene	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
1-Chloro-2-methyl-benzene	< 0.00107	1.07	0.00107	0.005	"	"	"	"	"	
1-Chloro-4-methyl-benzene	< 0.00087	0.870	0.00087	0.005	"	"	"	"	"	
Bromobenzene	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
Bromochloromethane	< 0.00077	0.770	0.00077	0.005	"	"	"	"	"	
Bromodichloromethane	< 0.0005	0.500	0.0005	0.005	"	"	"	"	"	
Bromoform	< 0.00077	0.770	0.00077	0.005	"	"	"	"	"	
Bromomethane	< 0.00205	2.05	0.00205	0.01	"	"	"	"	"	
2-Butanone	< 0.00226	2.26	0.00226	0.05	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	< 0.00138	1.38	0.00138	0.005	"	"	"	"	"	
n-Butylbenzene	< 0.00087	0.870	0.00087	0.005	"	"	"	"	"	
sec-Butylbenzene	< 0.00105	1.05	0.00105	0.005	"	"	"	"	"	
tert-Butylbenzene	< 0.00071	0.710	0.00071	0.005	"	"	"	"	"	
Methyltert-butylether	< 0.001	1.00	0.001	0.005	"	"	"	"	"	
Carbon disulfide	< 0.00062	0.620	0.00062	0.1	"	"	"	"	"	
Carbon tetrachloride	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	
Chlorobenzene	< 0.00059	0.590	0.00059	0.005	"	"	"	"	"	
Chloroethane	< 0.00121	1.21	0.00121	0.005	"	"	"	"	"	
2-Chloroethylvinylether	< 0.0114	11.4	0.0114	0.015	"	"	"	"	"	
Chloroform	< 0.00203	2.03	0.00203	0.005	"	"	"	"	"	
Chloromethane	< 0.00068	0.680	0.00068	0.01	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	< 0.0021	2.10	0.0021	0.005	"	"	"	"	"	
Dibromochloromethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
1,2-Dibromoethane	< 0.00114	1.14	0.00114	0.01	"	"	"	"	"	
Dibromomethane	< 0.00103	1.03	0.00103	0.005	"	"	"	"	"	
1,2-Dichlorobenzene	< 0.00097	0.970	0.00097	0.005	"	"	"	"	"	
1,3-Dichlorobenzene	< 0.00166	1.66	0.00166	0.005	"	"	"	"	"	
1,4-Dichlorobenzene	0.000790	0.670	0.00067	0.005	"	"	"	"	"	J
Dichlorodifluoromethane	< 0.00122	1.22	0.00122	0.005	"	"	"	"	"	
1,1-Dichloroethane	< 0.00085	0.850	0.00085	0.005	"	"	"	"	"	
1,2-Dichloroethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	
1,1-Dichloroethene	< 0.00068	0.680	0.00068	0.005	"	"	"	"	"	

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Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
MW-7 (0400367-06) Liquid Sampled: 01/30/04 11:30 Received: 02/02/04 10:40 Analyzed by: YQL										
cis-1,2-Dichloroethene	< 0.00094	0.940	0.00094	0.005	"	"	"	"	"	"
trans-1,2-Dichloroethene	< 0.0008	0.800	0.0008	0.005	"	"	"	"	"	"
1,2-Dichloropropane	< 0.00146	1.46	0.00146	0.005	"	"	"	"	"	"
1,3-Dichloropropane	< 0.00085	0.850	0.00085	0.005	"	"	"	"	"	"
2,2-Dichloropropane	< 0.00064	0.640	0.00064	0.005	"	"	"	"	"	"
1,1-Dichloropropene	< 0.00118	1.18	0.00118	0.005	"	"	"	"	"	"
cis-1,3-Dichloropropene	< 0.00118	1.18	0.00118	0.005	"	"	"	"	"	"
trans-1,3-Dichloropropene	< 0.00072	0.720	0.00072	0.005	"	"	"	"	"	"
Ethylbenzene	< 0.00073	0.730	0.00073	0.005	"	"	"	"	"	"
Hexachlorobutadiene	< 0.00126	1.26	0.00126	0.005	"	"	"	"	"	"
2-Hexanone	< 0.00217	2.17	0.00217	0.05	"	"	"	"	"	"
Isopropylbenzene	< 0.00164	1.64	0.00164	0.005	"	"	"	"	"	"
p-Isopropyltoluene	< 0.00103	1.03	0.00103	0.005	"	"	"	"	"	"
Methyl iodide	< 0.00201	2.01	0.00201	0.005	"	"	"	"	"	"
Methylene chloride	< 0.00082	0.820	0.00082	0.01	"	"	"	"	"	"
Naphthalene	< 0.00184	1.84	0.00184	0.005	"	"	"	"	"	"
4-Methyl-2-pentanone	< 0.00148	1.48	0.00148	0.05	"	"	"	"	"	"
N-Propylbenzene	< 0.00107	1.07	0.00107	0.005	"	"	"	"	"	"
Styrene	< 0.00071	0.710	0.00071	0.005	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	< 0.00083	0.830	0.00083	0.005	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	< 0.00151	1.51	0.00151	0.005	"	"	"	"	"	"
Tetrachloroethene	< 0.00099	0.989	0.00099	0.005	"	"	"	"	"	"
Toluene	< 0.00144	1.44	0.00144	0.005	"	"	"	"	"	"
1,2,3-Trichlorobenzene	< 0.00148	1.48	0.00148	0.005	"	"	"	"	"	"
1,2,4-Trichlorobenzene	< 0.0014	1.40	0.0014	0.005	"	"	"	"	"	"
1,1,1-Trichloroethane	< 0.00075	0.750	0.00075	0.005	"	"	"	"	"	"
1,1,2-Trichloroethane	< 0.00133	1.33	0.00133	0.005	"	"	"	"	"	"
Trichloroethene	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	"
Trichlorofluoromethane	< 0.00109	1.09	0.00109	0.005	"	"	"	"	"	"
1,2,3-Trichloropropane	< 0.00139	1.39	0.00139	0.005	"	"	"	"	"	"
1,2,4-Trimethylbenzene	< 0.00079	0.790	0.00079	0.005	"	"	"	"	"	"
1,3,5-Trimethylbenzene	< 0.0011	1.10	0.0011	0.005	"	"	"	"	"	"
Vinyl acetate	< 0.0021	2.10	0.0021	0.05	"	"	"	"	"	"
Vinyl chloride	< 0.00086	0.860	0.00086	0.002	"	"	"	"	"	"
Xylenes total	< 0.00208	2.08	0.00208	0.015	"	"	"	"	"	"

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Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MLL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-7 (0400367-06) Liquid Sampled: 01/30/04 11:30 Received: 02/02/04 10:40 Analyzed by: YQL

Surrogate: 4-Bromofluorobenzene	108 %		76-122		"		"	"	"	
Surrogate: 1,2-Dichloroethane-d4	107 %		75-125		"		"	"	"	
Surrogate: Toluene-d8	92.8 %		79-120		"		"	"	"	
Surrogate: Dibromofluoromethane	98.4 %		81-125		"		"	"	"	

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Semivolatile Organic Compounds by EPA Method 8270C
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-1 (0400367-01) Liquid Sampled: 01/30/04 10:15 Received: 02/02/04 10:40 Analyzed by: MJJ

Acenaphthene	< 0.00038	0.380	0.00038	0.001	mg/L	1	02/05/04	02/05/04	EPA 8270C	
Acenaphthylene	< 0.00039	0.390	0.00039	0.001	"	"	"	"	"	
Anthracene	< 0.00038	0.380	0.00038	0.001	"	"	"	"	"	
Benzo(a)anthracene	< 0.00036	0.360	0.00036	0.002	"	"	"	"	"	
Benzo(a)pyrene	< 0.00037	0.370	0.00037	0.0015	"	"	"	"	"	
Benzo(b)fluoranthene	< 0.00038	0.380	0.00038	0.0015	"	"	"	"	"	
Benzo(g,h,i)perylene	< 0.00049	0.490	0.00049	0.002	"	"	"	"	"	
Benzo(k)fluoranthene	< 0.00041	0.410	0.00041	0.0015	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	< 0.00054	0.540	0.00054	0.0015	"	"	"	"	"	
Chrysene	< 0.00039	0.390	0.00039	0.001	"	"	"	"	"	
Dibenz(a,h)anthracene	< 0.00054	0.540	0.00054	0.0015	"	"	"	"	"	
Fluoranthene	< 0.0004	0.400	0.0004	0.001	"	"	"	"	"	
Fluorene	< 0.0004	0.400	0.0004	0.001	"	"	"	"	"	
Naphthalene	< 0.00026	0.260	0.00026	0.001	"	"	"	"	"	
Phenanthrene	< 0.00037	0.370	0.00037	0.001	"	"	"	"	"	
Pyrene	< 0.00046	0.460	0.00046	0.001	"	"	"	"	"	
Surrogate: p-Terphenyl-d14		30.5 %	52-125		"		"	"	"	A-01
Surrogate: Nitrobenzene-d5		39.7 %	40-95		"		"	"	"	A-01
Surrogate: 2-Fluorobiphenyl		48.8 %	50-110		"		"	"	"	A-01

MW-2 (0400367-02) Liquid Sampled: 01/29/04 15:00 Received: 02/02/04 10:40 Analyzed by: MJJ

Acenaphthene	< 0.00038	0.380	0.00038	0.001	mg/L	1	02/05/04	02/05/04	EPA 8270C	
Acenaphthylene	< 0.00039	0.390	0.00039	0.001	"	"	"	"	"	
Anthracene	< 0.00038	0.380	0.00038	0.001	"	"	"	"	"	
Benzo(a)anthracene	< 0.00036	0.360	0.00036	0.002	"	"	"	"	"	
Benzo(a)pyrene	< 0.00037	0.370	0.00037	0.0015	"	"	"	"	"	
Benzo(b)fluoranthene	< 0.00038	0.380	0.00038	0.0015	"	"	"	"	"	
Benzo(g,h,i)perylene	< 0.00049	0.490	0.00049	0.002	"	"	"	"	"	
Benzo(k)fluoranthene	< 0.00041	0.410	0.00041	0.0015	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	< 0.00054	0.540	0.00054	0.0015	"	"	"	"	"	
Chrysene	< 0.00039	0.390	0.00039	0.001	"	"	"	"	"	
Dibenz(a,h)anthracene	< 0.00054	0.540	0.00054	0.0015	"	"	"	"	"	
Fluoranthene	< 0.0004	0.400	0.0004	0.001	"	"	"	"	"	
Fluorene	< 0.0004	0.400	0.0004	0.001	"	"	"	"	"	
Naphthalene	< 0.00026	0.260	0.00026	0.001	"	"	"	"	"	

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Semivolatile Organic Compounds by EPA Method 8270C
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-2 (0400367-02) Liquid Sampled: 01/29/04 15:00 Received: 02/02/04 10:40 Analyzed by: MJJ

Phenanthrene	< 0.00037	0.370	0.00037	0.001	"	"	"	"	"	
Pyrene	< 0.00046	0.460	0.00046	0.001	"	"	"	"	"	
Surrogate: p-Terphenyl-d14		34.7 %		52-125	"	"	"	"	"	S-BN
Surrogate: Nitrobenzene-d5		65.7 %		40-95	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		75.7 %		50-110	"	"	"	"	"	

MW-3 (0400367-03) Liquid Sampled: 01/29/04 16:55 Received: 02/02/04 10:40 Analyzed by: MJJ

Acenaphthene	< 0.00038	0.380	0.00038	0.001	mg/L	1	02/05/04	02/05/04	EPA 8270C	
Acenaphthylene	< 0.00039	0.390	0.00039	0.001	"	"	"	"	"	
Anthracene	< 0.00038	0.380	0.00038	0.001	"	"	"	"	"	
Benzo(a)anthracene	< 0.00036	0.360	0.00036	0.002	"	"	"	"	"	
Benzo(a)pyrene	< 0.00037	0.370	0.00037	0.0015	"	"	"	"	"	
Benzo(b)fluoranthene	< 0.00038	0.380	0.00038	0.0015	"	"	"	"	"	
Benzo(g,h,i)perylene	< 0.00049	0.490	0.00049	0.002	"	"	"	"	"	
Benzo(k)fluoranthene	< 0.00041	0.410	0.00041	0.0015	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	< 0.00054	0.540	0.00054	0.0015	"	"	"	"	"	
Chrysene	< 0.00039	0.390	0.00039	0.001	"	"	"	"	"	
Dibenz(a,h)anthracene	< 0.00054	0.540	0.00054	0.0015	"	"	"	"	"	
Fluoranthene	< 0.0004	0.400	0.0004	0.001	"	"	"	"	"	
Fluorene	< 0.0004	0.400	0.0004	0.001	"	"	"	"	"	
Naphthalene	< 0.00026	0.260	0.00026	0.001	"	"	"	"	"	
Phenanthrene	< 0.00037	0.370	0.00037	0.001	"	"	"	"	"	
Pyrene	< 0.00046	0.460	0.00046	0.001	"	"	"	"	"	
Surrogate: p-Terphenyl-d14		27.9 %		52-125	"	"	"	"	"	A-01
Surrogate: Nitrobenzene-d5		31.1 %		40-95	"	"	"	"	"	A-01
Surrogate: 2-Fluorobiphenyl		40.2 %		50-110	"	"	"	"	"	A-01

Certes Environmental Laboratories, LLC

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Semivolatile Organic Compounds by EPA Method 8270C
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-5 (0400367-04) Liquid Sampled: 01/30/04 15:15 Received: 02/02/04 10:40 Analyzed by: MJJ

Acenaphthene	< 0.00038	0.380	0.00038	0.001	mg/L	1	02/05/04	02/05/04	EPA 8270C	
Acenaphthylene	< 0.00039	0.390	0.00039	0.001	"	"	"	"	"	
Anthracene	< 0.00038	0.380	0.00038	0.001	"	"	"	"	"	
Benzo(a)anthracene	< 0.00036	0.360	0.00036	0.002	"	"	"	"	"	
Benzo(a)pyrene	< 0.00037	0.370	0.00037	0.0015	"	"	"	"	"	
Benzo(b)fluoranthene	< 0.00038	0.380	0.00038	0.0015	"	"	"	"	"	
Benzo(g,h,i)perylene	< 0.00049	0.490	0.00049	0.002	"	"	"	"	"	
Benzo(k)fluoranthene	< 0.00041	0.410	0.00041	0.0015	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	< 0.00054	0.540	0.00054	0.0015	"	"	"	"	"	
Chrysene	< 0.00039	0.390	0.00039	0.001	"	"	"	"	"	
Dibenz(a,h)anthracene	< 0.00054	0.540	0.00054	0.0015	"	"	"	"	"	
Fluoranthene	< 0.0004	0.400	0.0004	0.001	"	"	"	"	"	
Fluorene	< 0.0004	0.400	0.0004	0.001	"	"	"	"	"	
Naphthalene	< 0.00026	0.260	0.00026	0.001	"	"	"	"	"	
Phenanthrene	< 0.00037	0.370	0.00037	0.001	"	"	"	"	"	
Pyrene	< 0.00046	0.460	0.00046	0.001	"	"	"	"	"	
Surrogate: p-Terphenyl-d14		59.9 %	52-125		"		"	"	"	
Surrogate: Nitrobenzene-d5		75.0 %	40-95		"		"	"	"	
Surrogate: 2-Fluorobiphenyl		83.9 %	50-110		"		"	"	"	

MW-6 (0400367-05) Liquid Sampled: 01/30/04 13:50 Received: 02/02/04 10:40 Analyzed by: MJJ

Acenaphthene	< 0.00038	0.380	0.00038	0.001	mg/L	1	02/05/04	02/05/04	EPA 8270C	
Acenaphthylene	< 0.00039	0.390	0.00039	0.001	"	"	"	"	"	
Anthracene	< 0.00038	0.380	0.00038	0.001	"	"	"	"	"	
Benzo(a)anthracene	< 0.00036	0.360	0.00036	0.002	"	"	"	"	"	
Benzo(a)pyrene	< 0.00037	0.370	0.00037	0.0015	"	"	"	"	"	
Benzo(b)fluoranthene	< 0.00038	0.380	0.00038	0.0015	"	"	"	"	"	
Benzo(g,h,i)perylene	< 0.00049	0.490	0.00049	0.002	"	"	"	"	"	
Benzo(k)fluoranthene	< 0.00041	0.410	0.00041	0.0015	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	< 0.00054	0.540	0.00054	0.0015	"	"	"	"	"	
Chrysene	< 0.00039	0.390	0.00039	0.001	"	"	"	"	"	
Dibenz(a,h)anthracene	< 0.00054	0.540	0.00054	0.0015	"	"	"	"	"	
Fluoranthene	< 0.0004	0.400	0.0004	0.001	"	"	"	"	"	
Fluorene	< 0.0004	0.400	0.0004	0.001	"	"	"	"	"	
Naphthalene	< 0.00026	0.260	0.00026	0.001	"	"	"	"	"	

Certes Environmental Laboratories, LLC

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Semivolatile Organic Compounds by EPA Method 8270C
Certes Environmental Laboratories, LLC

Analyte	Result	MDL	SQL	MQL	Units	Dilution	Prepared	Analyzed	Method	Notes
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MW-6 (0400367-05) Liquid Sampled: 01/30/04 13:50 Received: 02/02/04 10:40 Analyzed by: MJJ

Phenanthrene	< 0.00037	0.370	0.00037	0.001	"	"	"	"	"	
Pyrene	< 0.00046	0.460	0.00046	0.001	"	"	"	"	"	
Surrogate: p-Terphenyl-d14		39.7 %		52-125	"	"	"	"	"	S-BN
Surrogate: Nitrobenzene-d5		65.3 %		40-95	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		73.9 %		50-110	"	"	"	"	"	

MW-7 (0400367-06) Liquid Sampled: 01/30/04 11:30 Received: 02/02/04 10:40 Analyzed by: MJJ

Acenaphthene	< 0.00038	0.380	0.00038	0.001	mg/L	1	02/05/04	02/05/04	EPA 8270C	
Acenaphthylene	< 0.00039	0.390	0.00039	0.001	"	"	"	"	"	
Anthracene	< 0.00038	0.380	0.00038	0.001	"	"	"	"	"	
Benzo(a)anthracene	< 0.00036	0.360	0.00036	0.002	"	"	"	"	"	
Benzo(a)pyrene	< 0.00037	0.370	0.00037	0.0015	"	"	"	"	"	
Benzo(b)fluoranthene	< 0.00038	0.380	0.00038	0.0015	"	"	"	"	"	
Benzo(g,h,i)perylene	< 0.00049	0.490	0.00049	0.002	"	"	"	"	"	
Benzo(k)fluoranthene	< 0.00041	0.410	0.00041	0.0015	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	< 0.00054	0.540	0.00054	0.0015	"	"	"	"	"	
Chrysene	< 0.00039	0.390	0.00039	0.001	"	"	"	"	"	
Dibenz(a,h)anthracene	< 0.00054	0.540	0.00054	0.0015	"	"	"	"	"	
Fluoranthene	< 0.0004	0.400	0.0004	0.001	"	"	"	"	"	
Fluorene	< 0.0004	0.400	0.0004	0.001	"	"	"	"	"	
Naphthalene	< 0.00026	0.260	0.00026	0.001	"	"	"	"	"	
Phenanthrene	< 0.00037	0.370	0.00037	0.001	"	"	"	"	"	
Pyrene	< 0.00046	0.460	0.00046	0.001	"	"	"	"	"	
Surrogate: p-Terphenyl-d14		24.4 %		52-125	"	"	"	"	"	S-BN
Surrogate: Nitrobenzene-d5		43.9 %		40-95	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		51.6 %		50-110	"	"	"	"	"	

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Metals by EPA 6000/7000 Series Methods - Quality Control
Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AB40706 - EPA 7470A Hg-Liq										
Blank (AB40706-BLK1) Prepared & Analyzed: 02/07/04										
Mercury	<	0.000100	mg/L							
LCS (AB40706-BS1) Prepared & Analyzed: 02/07/04										
Mercury	0.00520	0.000100	mg/L	0.00500		104	80-120			
LCS Dup (AB40706-BSD1) Prepared & Analyzed: 02/07/04										
Mercury	0.00490	0.000100	mg/L	0.00500		98.0	80-120	5.94	20	
Matrix Spike (AB40706-MS1) Source: 0400367-01 Prepared & Analyzed: 02/07/04										
Mercury	0.00480	0.000100	mg/L	0.00500	<	96.0	75-125			
Matrix Spike Dup (AB40706-MSD1) Source: 0400367-01 Prepared & Analyzed: 02/07/04										
Mercury	0.00480	0.000100	mg/L	0.00500	<	96.0	75-125	0.00	20	

Certes Environmental Laboratories, LLC

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Gale Denman, Project Manager

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Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Metals (Dissolved) by EPA 6000/7000 Series Methods - Quality Control
Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AB40409 - EPA 7470A Hg-Liq										
Blank (AB40409-BLK1)				Prepared & Analyzed: 02/04/04						
Mercury	<	0.000100	mg/L							
LCS (AB40409-BS1)				Prepared & Analyzed: 02/04/04						
Mercury	0.00500	0.000100	mg/L	0.00500		100	80-120			
LCS Dup (AB40409-BSD1)				Prepared & Analyzed: 02/04/04						
Mercury	0.00500	0.000100	mg/L	0.00500		100	80-120	0.00	20	
Matrix Spike (AB40409-MS1)				Source: 0400312-02		Prepared & Analyzed: 02/04/04				
Mercury	0.00480	0.000100	mg/L	0.00500	0.000100	94.0	75-125			
Matrix Spike Dup (AB40409-MSD1)				Source: 0400312-02		Prepared & Analyzed: 02/04/04				
Mercury	0.00480	0.000100	mg/L	0.00500	0.000100	94.0	75-125	0.00	20	

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Gale Denman, Project Manager

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 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

RCRA Metals by EPA 6000/7000 Series Methods - Quality Control

Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB40407 - EPA 200.7/3010 ICP

Blank (AB40407-BLK1)

Prepared & Analyzed: 02/04/04

Arsenic	<	0.0100	mg/L							
Barium	<	0.0100	"							
Cadmium	<	0.00500	"							
Chromium	<	0.00500	"							
Lead	<	0.0150	"							
Selenium	<	0.0400	"							
Silver	<	0.0100	"							

LCS (AB40407-BS1)

Prepared & Analyzed: 02/04/04

Arsenic	1.01	0.0100	mg/L	1.00		101	80-120			
Barium	1.03	0.0100	"	1.00		103	80-120			
Cadmium	1.02	0.00500	"	1.00		102	80-120			
Chromium	1.06	0.00500	"	1.00		106	80-120			
Lead	1.03	0.0150	"	1.00		103	80-120			
Selenium	1.00	0.0400	"	1.00		100	80-120			
Silver	0.987	0.0100	"	1.00		98.7	80-120			

LCS Dup (AB40407-BSD1)

Prepared & Analyzed: 02/04/04

Arsenic	1.03	0.0100	mg/L	1.00		103	80-120	1.96	20	
Barium	1.02	0.0100	"	1.00		102	80-120	0.976	20	
Cadmium	1.03	0.00500	"	1.00		103	80-120	0.976	20	
Chromium	1.09	0.00500	"	1.00		109	80-120	2.79	20	
Lead	1.04	0.0150	"	1.00		104	80-120	0.966	20	
Selenium	1.02	0.0400	"	1.00		102	80-120	1.98	20	
Silver	0.984	0.0100	"	1.00		98.4	80-120	0.304	20	

Matrix Spike (AB40407-MS1)

Source: 0400367-01

Prepared & Analyzed: 02/04/04

Arsenic	1.03	0.0100	mg/L	1.00	0.00410	103	75-125			
Barium	1.34	0.0100	"	1.00	0.348	99.2	75-125			
Cadmium	0.970	0.00500	"	1.00	<	97.0	75-125			
Chromium	1.05	0.00500	"	1.00	0.000500	105	75-125			
Lead	0.942	0.0150	"	1.00	0.00840	93.4	75-125			
Selenium	1.00	0.0400	"	1.00	0.00560	99.4	75-125			
Silver	1.06	0.0100	"	1.00	<	106	75-125			

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Gale Denman

Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

RCRA Metals by EPA 6000/7000 Series Methods - Quality Control

Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB40407 - EPA 200.7/3010 ICP

Matrix Spike Dup (AB40407-MSD1)

Source: 0400367-01

Prepared & Analyzed: 02/04/04

Arsenic	1.04	0.0100	mg/L	1.00	0.00410	104	75-125	0.966	20	
Barium	1.34	0.0100	"	1.00	0.348	99.2	75-125	0.00	20	
Cadmium	0.976	0.00500	"	1.00	<	97.6	75-125	0.617	20	
Chromium	1.07	0.00500	"	1.00	0.000500	107	75-125	1.89	20	
Lead	0.994	0.0150	"	1.00	0.00840	98.6	75-125	5.37	20	
Selenium	1.03	0.0400	"	1.00	0.00560	102	75-125	2.96	20	
Silver	1.07	0.0100	"	1.00	<	107	75-125	0.939	20	

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 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

RCRA Metals (Dissolved) by EPA 6000/7000 Series Methods - Quality Control

Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB40311 - EPA 200.7/3010 ICP

Blank (AB40311-BLK1)

Prepared: 02/03/04 Analyzed: 02/04/04

Arsenic	<	0.0500	mg/L							
Barium	0.00100	0.0100	"							J
Cadmium	<	0.00500	"							
Chromium	<	0.00500	"							
Lead	<	0.0150	"							
Selenium	<	0.0500	"							
Silver	<	0.0100	"							

LCS (AB40311-BS1)

Prepared: 02/03/04 Analyzed: 02/04/04

Arsenic	1.01	0.0500	mg/L	1.00		101	80-120			
Barium	1.03	0.0100	"	1.00		103	80-120			
Cadmium	1.01	0.00500	"	1.00		101	80-120			
Chromium	1.07	0.00500	"	1.00		107	80-120			
Lead	1.05	0.0150	"	1.00		105	80-120			
Selenium	0.989	0.0500	"	1.00		98.9	80-120			
Silver	0.985	0.0100	"	1.00		98.5	80-120			

LCS Dup (AB40311-BSD1)

Prepared: 02/03/04 Analyzed: 02/04/04

Arsenic	0.992	0.0500	mg/L	1.00		99.2	80-120	1.80	20	
Barium	1.02	0.0100	"	1.00		102	80-120	0.976	20	
Cadmium	1.01	0.00500	"	1.00		101	80-120	0.00	20	
Chromium	1.03	0.00500	"	1.00		103	80-120	3.81	20	
Lead	1.01	0.0150	"	1.00		101	80-120	3.88	20	
Selenium	0.975	0.0500	"	1.00		97.5	80-120	1.43	20	
Silver	0.932	0.0100	"	1.00		93.2	80-120	5.53	20	

Matrix Spike (AB40311-MS1)

Source: 0400356-02

Prepared: 02/03/04 Analyzed: 02/04/04

Arsenic	0.962	0.0500	mg/L	1.00	0.00700	95.5	75-125			
Barium	1.06	0.0100	"	1.00	0.126	93.4	75-125			
Cadmium	0.930	0.00500	"	1.00	0.00540	92.5	75-125			
Chromium	0.968	0.00500	"	1.00	0.0160	95.2	75-125			
Lead	0.950	0.0150	"	1.00	0.0411	90.9	75-125			
Selenium	0.968	0.0500	"	1.00	<	96.8	75-125			
Silver	0.940	0.0100	"	1.00	0.000900	93.9	75-125			

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Gale Denman

Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

RCRA Metals (Dissolved) by EPA 6000/7000 Series Methods - Quality Control

Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB40311 - EPA 200.7/3010 ICP

Matrix Spike Dup (AB40311-MSD1)

Source: 0400356-02

Prepared: 02/03/04

Analyzed: 02/04/04

Arsenic	0.947	0.0500	mg/L	1.00	0.00700	94.0	75-125	1.57	20	
Barium	1.04	0.0100	"	1.00	0.126	91.4	75-125	1.90	20	
Cadmium	0.901	0.00500	"	1.00	0.00540	89.6	75-125	3.17	20	
Chromium	0.963	0.00500	"	1.00	0.0160	94.7	75-125	0.518	20	
Lead	0.940	0.0150	"	1.00	0.0411	89.9	75-125	1.06	20	
Selenium	0.939	0.0500	"	1.00	<	93.9	75-125	3.04	20	
Silver	0.931	0.0100	"	1.00	0.000900	93.0	75-125	0.962	20	

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB41004 - EPA 8260B

Blank (AB41004-BLK1)

Prepared & Analyzed: 02/10/04

Acetone	<	0.100	mg/L							
Acrolein	<	0.100	"							
Acrylonitrile	<	0.100	"							
Benzene	<	0.00500	"							
1-Chloro-2-methyl-benzene	<	0.00500	"							
1-Chloro-4-methyl-benzene	<	0.00500	"							
Bromobenzene	<	0.00500	"							
Bromochloromethane	<	0.00500	"							
Bromodichloromethane	<	0.00500	"							
Bromoform	<	0.00500	"							
Bromomethane	<	0.0100	"							
2-Butanone	<	0.0500	"							
trans-1,4-Dichloro-2-butene	<	0.00500	"							
n-Butylbenzene	<	0.00500	"							
sec-Butylbenzene	<	0.00500	"							
tert-Butylbenzene	<	0.00500	"							
Methyltert-butylether	<	0.00500	"							
Carbon disulfide	<	0.100	"							
Carbon tetrachloride	<	0.00500	"							
Chlorobenzene	<	0.00500	"							
Chloroethane	<	0.00500	"							
2-Chloroethylvinylether	<	0.0150	"							
Chloroform	<	0.00500	"							
Chloromethane	<	0.0100	"							
1,2-Dibromo-3-chloropropane	<	0.00500	"							
Dibromochloromethane	<	0.00500	"							
1,2-Dibromoethane	<	0.0100	"							
Dibromomethane	<	0.00500	"							
1,2-Dichlorobenzene	<	0.00500	"							
1,3-Dichlorobenzene	<	0.00500	"							
1,4-Dichlorobenzene	<	0.00500	"							
Dichlorodifluoromethane	<	0.00500	"							
1,1-Dichloroethane	<	0.00500	"							
1,2-Dichloroethane	<	0.00500	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB41004 - EPA 8260B

Blank (AB41004-BLK1)

Prepared & Analyzed: 02/10/04

1,1-Dichloroethene	<	0.00500	mg/L							
cis-1,2-Dichloroethene	<	0.00500	"							
trans-1,2-Dichloroethene	<	0.00500	"							
1,2-Dichloropropane	<	0.00500	"							
1,3-Dichloropropane	<	0.00500	"							
2,2-Dichloropropane	<	0.00500	"							
1,1-Dichloropropene	<	0.00500	"							
cis-1,3-Dichloropropene	<	0.00500	"							
trans-1,3-Dichloropropene	<	0.00500	"							
Ethylbenzene	<	0.00500	"							
Hexachlorobutadiene	<	0.00500	"							
2-Hexanone	<	0.0500	"							
Isopropylbenzene	<	0.00500	"							
p-Isopropyltoluene	<	0.00500	"							
Methyl iodide	<	0.00500	"							
Methylene chloride	<	0.0100	"							
Naphthalene	<	0.00500	"							
4-Methyl-2-pentanone	<	0.0500	"							
N-Propylbenzene	<	0.00500	"							
Styrene	<	0.00500	"							
1,1,1,2-Tetrachloroethane	<	0.00500	"							
1,1,2,2-Tetrachloroethane	<	0.00500	"							
Tetrachloroethene	<	0.00500	"							
Toluene	<	0.00500	"							
1,2,3-Trichlorobenzene	<	0.00500	"							
1,2,4-Trichlorobenzene	<	0.00500	"							
1,1,1-Trichloroethane	<	0.00500	"							
1,1,2-Trichloroethane	<	0.00500	"							
Trichloroethene	<	0.00500	"							
Trichlorofluoromethane	<	0.00500	"							
1,2,3-Trichloropropane	<	0.00500	"							
1,2,4-Trimethylbenzene	<	0.00500	"							
1,3,5-Trimethylbenzene	<	0.00500	"							
Vinyl acetate	<	0.0500	"							

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Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB41004 - EPA 8260B

Blank (AB41004-BLK1)

Prepared & Analyzed: 02/10/04

Vinyl chloride	<	0.00200	mg/L							
Xylenes total	<	0.0150	"							
<i>Surrogate: 4-Bromofluorobenzene</i>	54.6		ug/L	50.0		109	76-122			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	46.5		"	50.0		93.0	75-125			
<i>Surrogate: Toluene-d8</i>	53.9		"	50.0		108	79-120			
<i>Surrogate: Dibromofluoromethane</i>	52.0		"	50.0		104	81-125			

LCS (AB41004-BS1)

Prepared & Analyzed: 02/10/04

Acetone	0.262	0.100	mg/L	0.200		131	50-150			
Acrolein	0.131	0.100	"	0.200		65.5	50-150			
Acrylonitrile	0.0585	0.100	"	0.0500		117	50-150			J
Benzene	0.0535	0.00500	"	0.0500		107	50-150			
1-Chloro-2-methyl-benzene	0.0540	0.00500	"	0.0500		108	50-150			
1-Chloro-4-methyl-benzene	0.0556	0.00500	"	0.0500		111	50-150			
Bromobenzene	0.0540	0.00500	"	0.0500		108	50-150			
Bromochloromethane	0.0501	0.00500	"	0.0500		100	50-150			
Bromodichloromethane	0.0563	0.00500	"	0.0500		113	50-150			
Bromoform	0.0505	0.00500	"	0.0500		101	50-150			
Bromomethane	0.0538	0.0100	"	0.0500		108	50-150			
2-Butanone	0.217	0.0500	"	0.200		108	50-150			
trans-1,4-Dichloro-2-butene	0.0457	0.00500	"	0.0500		91.4	50-150			
n-Butylbenzene	0.0426	0.00500	"	0.0500		85.2	50-150			
sec-Butylbenzene	0.0478	0.00500	"	0.0500		95.6	50-150			
tert-Butylbenzene	0.0470	0.00500	"	0.0500		94.0	50-150			
Methyltert-butylether	0.0508	0.00500	"	0.0500		102	50-150			
Carbon disulfide	0.0592	0.100	"	0.0500		118	50-150			J
Carbon tetrachloride	0.0562	0.00500	"	0.0500		112	50-150			
Chlorobenzene	0.0516	0.00500	"	0.0500		103	50-150			
Chloroethane	0.0538	0.00500	"	0.0500		108	50-150			
2-Chloroethylvinylether	0.105	0.0150	"	0.100		105	50-150			
Chloroform	0.0549	0.00500	"	0.0500		110	50-150			
Chloromethane	0.0574	0.0100	"	0.0500		115	50-150			
1,2-Dibromo-3-chloropropane	0.0448	0.00500	"	0.0500		89.6	50-150			
Dibromochloromethane	0.0575	0.00500	"	0.0500		115	50-150			
1,2-Dibromoethane	0.0562	0.0100	"	0.0500		112	50-150			

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Gale Denman

Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB41004 - EPA 8260B

LCS (AB41004-BS1)

Prepared & Analyzed: 02/10/04

Dibromomethane	0.0570	0.00500	mg/L	0.0500		114	50-150			
1,2-Dichlorobenzene	0.0531	0.00500	"	0.0500		106	50-150			
1,3-Dichlorobenzene	0.0515	0.00500	"	0.0500		103	50-150			
1,4-Dichlorobenzene	0.0500	0.00500	"	0.0500		100	50-150			
Dichlorodifluoromethane	0.0227	0.00500	"	0.0500		45.4	50-150			A-05
1,1-Dichloroethane	0.0504	0.00500	"	0.0500		101	50-150			
1,2-Dichloroethane	0.0567	0.00500	"	0.0500		113	50-150			
1,1-Dichloroethene	0.0592	0.00500	"	0.0500		118	50-150			
cis-1,2-Dichloroethene	0.0577	0.00500	"	0.0500		115	50-150			
trans-1,2-Dichloroethene	0.0531	0.00500	"	0.0500		106	50-150			
1,2-Dichloropropane	0.0548	0.00500	"	0.0500		110	50-150			
1,3-Dichloropropane	0.0576	0.00500	"	0.0500		115	50-150			
2,2-Dichloropropane	0.0541	0.00500	"	0.0500		108	50-150			
1,1-Dichloropropene	0.0501	0.00500	"	0.0500		100	50-150			
cis-1,3-Dichloropropene	0.0507	0.00500	"	0.0500		101	50-150			
trans-1,3-Dichloropropene	0.0489	0.00500	"	0.0500		97.8	50-150			
Ethylbenzene	0.0507	0.00500	"	0.0500		101	50-150			
Hexachlorobutadiene	0.0448	0.00500	"	0.0500		89.6	50-150			
2-Hexanone	0.198	0.0500	"	0.200		99.0	50-150			
Isopropylbenzene	0.0613	0.00500	"	0.0500		123	50-150			
p-Isopropyltoluene	0.0455	0.00500	"	0.0500		91.0	50-150			
Methyl iodide	0.0278	0.00500	"	0.0500		55.6	50-150			
Methylene chloride	0.0553	0.0100	"	0.0500		111	50-150			
Naphthalene	0.0469	0.00500	"	0.0500		93.8	50-150			
4-Methyl-2-pentanone	0.209	0.0500	"	0.200		104	50-150			
N-Propylbenzene	0.0519	0.00500	"	0.0500		104	50-150			
Styrene	0.0504	0.00500	"	0.0500		101	50-150			
1,1,1,2-Tetrachloroethane	0.0518	0.00500	"	0.0500		104	50-150			
1,1,2,2-Tetrachloroethane	0.0540	0.00500	"	0.0500		108	50-150			
Tetrachloroethene	0.0519	0.00500	"	0.0500		104	50-150			
Toluene	0.0532	0.00500	"	0.0500		106	50-150			
1,2,3-Trichlorobenzene	0.0475	0.00500	"	0.0500		95.0	50-150			
1,2,4-Trichlorobenzene	0.0471	0.00500	"	0.0500		94.2	50-150			
1,1,1-Trichloroethane	0.0586	0.00500	"	0.0500		117	50-150			

Certes Environmental Laboratories, LLC

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Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB41004 - EPA 8260B

LCS (AB41004-BS1)

Prepared & Analyzed: 02/10/04

1,1,2-Trichloroethane	0.0605	0.00500	mg/L	0.0500		121	50-150			
Trichloroethene	0.0548	0.00500	"	0.0500		110	50-150			
Trichlorofluoromethane	0.0623	0.00500	"	0.0500		125	50-150			
1,2,3-Trichloropropane	0.0597	0.00500	"	0.0500		119	50-150			
1,2,4-Trimethylbenzene	0.0499	0.00500	"	0.0500		99.8	50-150			
1,3,5-Trimethylbenzene	0.0509	0.00500	"	0.0500		102	50-150			
Vinyl acetate	0.135	0.0500	"	0.200		67.5	50-150			
Vinyl chloride	0.0581	0.00200	"	0.0500		116	50-150			
Xylenes total	0.151	0.0150	"	0.150		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.6</i>		<i>ug/L</i>	<i>50.0</i>		<i>101</i>	<i>76-122</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>51.2</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>75-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.9</i>		<i>"</i>	<i>50.0</i>		<i>99.8</i>	<i>79-120</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>50.0</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>81-125</i>			

LCS Dup (AB41004-BSD1)

Prepared & Analyzed: 02/10/04

Acetone	0.158	0.100	mg/L	0.200		79.0	50-150	49.5	25	A-05
Acrolein	0.110	0.100	"	0.200		55.0	50-150	17.4	25	
Acrylonitrile	0.0403	0.100	"	0.0500		80.6	50-150	36.8	25	A-05, J
Benzene	0.0444	0.00500	"	0.0500		88.8	50-150	18.6	25	
1-Chloro-2-methyl-benzene	0.0446	0.00500	"	0.0500		89.2	50-150	19.1	25	
1-Chloro-4-methyl-benzene	0.0453	0.00500	"	0.0500		90.6	50-150	20.4	25	
Bromobenzene	0.0428	0.00500	"	0.0500		85.6	50-150	23.1	25	
Bromochloromethane	0.0404	0.00500	"	0.0500		80.8	50-150	21.4	25	
Bromodichloromethane	0.0475	0.00500	"	0.0500		95.0	50-150	17.0	25	
Bromoform	0.0402	0.00500	"	0.0500		80.4	50-150	22.7	25	
Bromomethane	0.0540	0.0100	"	0.0500		108	50-150	0.371	25	
2-Butanone	0.116	0.0500	"	0.200		58.0	50-150	60.7	25	A-05
trans-1,4-Dichloro-2-butene	0.0311	0.00500	"	0.0500		62.2	50-150	38.0	25	A-05
n-Butylbenzene	0.0337	0.00500	"	0.0500		67.4	50-150	23.3	25	
sec-Butylbenzene	0.0383	0.00500	"	0.0500		76.6	50-150	22.1	25	
tert-Butylbenzene	0.0381	0.00500	"	0.0500		76.2	50-150	20.9	25	
Methyltert-butylether	0.0353	0.00500	"	0.0500		70.6	50-150	36.0	25	A-05
Carbon disulfide	0.0525	0.100	"	0.0500		105	50-150	12.0	25	J
Carbon tetrachloride	0.0488	0.00500	"	0.0500		97.6	50-150	14.1	25	
Chlorobenzene	0.0441	0.00500	"	0.0500		88.2	50-150	15.7	25	

Certes Environmental Laboratories, LLC

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Gale Denman

Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AB41004 - EPA 8260B										
LCS Dup (AB41004-BSD1)										
Prepared & Analyzed: 02/10/04										
Chloroethane	0.0539	0.00500	mg/L	0.0500		108	50-150	0.186	25	
2-Chloroethylvinylether	<	0.0150	"	0.100			50-150		25	A-05
Chloroform	0.0475	0.00500	"	0.0500		95.0	50-150	14.5	25	
Chloromethane	0.0542	0.0100	"	0.0500		108	50-150	5.73	25	
1,2-Dibromo-3-chloropropane	0.0302	0.00500	"	0.0500		60.4	50-150	38.9	25	A-05
Dibromochloromethane	0.0466	0.00500	"	0.0500		93.2	50-150	20.9	25	
1,2-Dibromoethane	0.0414	0.0100	"	0.0500		82.8	50-150	30.3	25	A-05
Dibromomethane	0.0459	0.00500	"	0.0500		91.8	50-150	21.6	25	
1,2-Dichlorobenzene	0.0433	0.00500	"	0.0500		86.6	50-150	20.3	25	
1,3-Dichlorobenzene	0.0426	0.00500	"	0.0500		85.2	50-150	18.9	25	
1,4-Dichlorobenzene	0.0419	0.00500	"	0.0500		83.8	50-150	17.6	25	
Dichlorodifluoromethane	0.0215	0.00500	"	0.0500		43.0	50-150	5.43	25	A-05
1,1-Dichloroethane	0.0416	0.00500	"	0.0500		83.2	50-150	19.1	25	
1,2-Dichloroethane	0.0468	0.00500	"	0.0500		93.6	50-150	19.1	25	
1,1-Dichloroethene	0.0509	0.00500	"	0.0500		102	50-150	15.1	25	
cis-1,2-Dichloroethene	0.0455	0.00500	"	0.0500		91.0	50-150	23.6	25	
trans-1,2-Dichloroethene	0.0433	0.00500	"	0.0500		86.6	50-150	20.3	25	
1,2-Dichloropropane	0.0454	0.00500	"	0.0500		90.8	50-150	18.8	25	
1,3-Dichloropropane	0.0442	0.00500	"	0.0500		88.4	50-150	26.3	25	A-05
2,2-Dichloropropane	0.0445	0.00500	"	0.0500		89.0	50-150	19.5	25	
1,1-Dichloropropene	0.0410	0.00500	"	0.0500		82.0	50-150	20.0	25	
cis-1,3-Dichloropropene	0.0406	0.00500	"	0.0500		81.2	50-150	22.1	25	
trans-1,3-Dichloropropene	0.0385	0.00500	"	0.0500		77.0	50-150	23.8	25	
Ethylbenzene	0.0432	0.00500	"	0.0500		86.4	50-150	16.0	25	
Hexachlorobutadiene	0.0363	0.00500	"	0.0500		72.6	50-150	21.0	25	
2-Hexanone	0.128	0.0500	"	0.200		64.0	50-150	42.9	25	A-05
Isopropylbenzene	0.0492	0.00500	"	0.0500		98.4	50-150	21.9	25	
p-Isopropyltoluene	0.0369	0.00500	"	0.0500		73.8	50-150	20.9	25	
Methyl iodide	0.0245	0.00500	"	0.0500		49.0	50-150	12.6	25	A-05
Methylene chloride	0.0502	0.0100	"	0.0500		100	50-150	9.67	25	
Naphthalene	0.0325	0.00500	"	0.0500		65.0	50-150	36.3	25	A-05
4-Methyl-2-pentanone	0.128	0.0500	"	0.200		64.0	50-150	48.1	25	A-05
N-Propylbenzene	0.0428	0.00500	"	0.0500		85.6	50-150	19.2	25	
Styrene	0.0425	0.00500	"	0.0500		85.0	50-150	17.0	25	

Certes Environmental Laboratories, LLC

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Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB41004 - EPA 8260B

LCS Dup (AB41004-BSD1)

Prepared & Analyzed: 02/10/04

1,1,1,2-Tetrachloroethane	0.0438	0.00500	mg/L	0.0500		87.6	50-150	16.7	25	
1,1,2,2-Tetrachloroethane	0.0391	0.00500	"	0.0500		78.2	50-150	32.0	25	A-05
Tetrachloroethene	0.0420	0.00500	"	0.0500		84.0	50-150	21.1	25	
Toluene	0.0445	0.00500	"	0.0500		89.0	50-150	17.8	25	
1,2,3-Trichlorobenzene	0.0370	0.00500	"	0.0500		74.0	50-150	24.9	25	
1,2,4-Trichlorobenzene	0.0373	0.00500	"	0.0500		74.6	50-150	23.2	25	
1,1,1-Trichloroethane	0.0488	0.00500	"	0.0500		97.6	50-150	18.2	25	
1,1,2-Trichloroethane	0.0458	0.00500	"	0.0500		91.6	50-150	27.7	25	A-05
Trichloroethene	0.0436	0.00500	"	0.0500		87.2	50-150	22.8	25	
Trichlorofluoromethane	0.0613	0.00500	"	0.0500		123	50-150	1.62	25	
1,2,3-Trichloropropane	0.0367	0.00500	"	0.0500		73.4	50-150	47.7	25	A-05
1,2,4-Trimethylbenzene	0.0407	0.00500	"	0.0500		81.4	50-150	20.3	25	
1,3,5-Trimethylbenzene	0.0418	0.00500	"	0.0500		83.6	50-150	19.6	25	
Vinyl acetate	0.109	0.0500	"	0.200		54.5	50-150	21.3	25	
Vinyl chloride	0.0710	0.00200	"	0.0500		142	50-150	20.0	25	
Xylenes total	0.131	0.0150	"	0.150		87.3	50-150	14.2	25	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>51.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>103</i>	<i>76-122</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>52.9</i>		"	<i>50.0</i>		<i>106</i>	<i>75-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.9</i>		"	<i>50.0</i>		<i>102</i>	<i>79-120</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>51.7</i>		"	<i>50.0</i>		<i>103</i>	<i>81-125</i>			

Matrix Spike (AB41004-MS1)

Source: 0400411-01

Prepared & Analyzed: 02/10/04

Acetone	0.210	0.100	mg/L	0.200	0.0180	96.0	50-150			
Acrolein	0.122	0.100	"	0.200	<	61.0	50-150			
Acrylonitrile	0.0500	0.100	"	0.0500	<	100	50-150			J
Benzene	0.0498	0.00500	"	0.0500	<	99.6	50-150			
1-Chloro-2-methyl-benzene	0.0487	0.00500	"	0.0500	<	97.4	50-150			
1-Chloro-4-methyl-benzene	0.0506	0.00500	"	0.0500	<	101	50-150			
Bromobenzene	0.0487	0.00500	"	0.0500	<	97.4	50-150			
Bromochloromethane	0.0450	0.00500	"	0.0500	<	90.0	50-150			
Bromodichloromethane	0.0517	0.00500	"	0.0500	<	103	50-150			
Bromoform	0.0461	0.00500	"	0.0500	<	92.2	50-150			
Bromomethane	0.0519	0.0100	"	0.0500	<	104	50-150			
2-Butanone	0.168	0.0500	"	0.200	<	84.0	50-150			
trans-1,4-Dichloro-2-butene	0.0391	0.00500	"	0.0500	<	78.2	50-150			

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Gale Denman

Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB41004 - EPA 8260B

Matrix Spike (AB41004-MS1)

Source: 0400411-01

Prepared & Analyzed: 02/10/04

n-Butylbenzene	0.0364	0.00500	mg/L	0.0500	<	72.8	50-150			
sec-Butylbenzene	0.0410	0.00500	"	0.0500	<	82.0	50-150			
tert-Butylbenzene	0.0411	0.00500	"	0.0500	<	82.2	50-150			
Methyltert-butylether	0.0446	0.00500	"	0.0500	<	89.2	50-150			
Carbon disulfide	0.0548	0.100	"	0.0500	<	110	50-150			J
Carbon tetrachloride	0.0500	0.00500	"	0.0500	<	100	50-150			
Chlorobenzene	0.0476	0.00500	"	0.0500	<	95.2	50-150			
Chloroethane	0.0470	0.00500	"	0.0500	<	94.0	50-150			
2-Chloroethylvinylether	0.0959	0.0150	"	0.100	<	95.9	50-150			
Chloroform	0.0507	0.00500	"	0.0500	<	101	50-150			
Chloromethane	0.0501	0.0100	"	0.0500	<	100	50-150			
1,2-Dibromo-3-chloropropane	0.0380	0.00500	"	0.0500	<	76.0	50-150			
Dibromochloromethane	0.0536	0.00500	"	0.0500	<	107	50-150			
1,2-Dibromoethane	0.0493	0.0100	"	0.0500	<	98.6	50-150			
Dibromomethane	0.0522	0.00500	"	0.0500	<	104	50-150			
1,2-Dichlorobenzene	0.0490	0.00500	"	0.0500	<	98.0	50-150			
1,3-Dichlorobenzene	0.0474	0.00500	"	0.0500	<	94.8	50-150			
1,4-Dichlorobenzene	0.0460	0.00500	"	0.0500	<	92.0	50-150			
Dichlorodifluoromethane	0.0195	0.00500	"	0.0500	<	39.0	50-150			A-05
1,1-Dichloroethane	0.0466	0.00500	"	0.0500	<	93.2	50-150			
1,2-Dichloroethane	0.0509	0.00500	"	0.0500	<	102	50-150			
1,1-Dichloroethene	0.0539	0.00500	"	0.0500	<	108	50-150			
cis-1,2-Dichloroethene	0.0516	0.00500	"	0.0500	<	103	50-150			
trans-1,2-Dichloroethene	0.0483	0.00500	"	0.0500	<	96.6	50-150			
1,2-Dichloropropane	0.0508	0.00500	"	0.0500	<	102	50-150			
1,3-Dichloropropane	0.0520	0.00500	"	0.0500	<	104	50-150			
2,2-Dichloropropane	0.0478	0.00500	"	0.0500	<	95.6	50-150			
1,1-Dichloropropene	0.0454	0.00500	"	0.0500	<	90.8	50-150			
cis-1,3-Dichloropropene	0.0454	0.00500	"	0.0500	<	90.8	50-150			
trans-1,3-Dichloropropene	0.0440	0.00500	"	0.0500	<	88.0	50-150			
Ethylbenzene	0.0468	0.00500	"	0.0500	<	93.6	50-150			
Hexachlorobutadiene	0.0374	0.00500	"	0.0500	<	74.8	50-150			
2-Hexanone	0.166	0.0500	"	0.200	<	83.0	50-150			
Isopropylbenzene	0.0544	0.00500	"	0.0500	<	109	50-150			

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Gale Denman, Project Manager

Shaw Environmental-Austin
 8501 N. Mopac Suite 320
 Austin TX, 78759

Project: Zilker Park
 Project Number: 803957
 Project Manager: Martin Romanak

Reported:
 04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB41004 - EPA 8260B

Matrix Spike (AB41004-MS1)

Source: 0400411-01

Prepared & Analyzed: 02/10/04

p-Isopropyltoluene	0.0392	0.00500	mg/L	0.0500	<	78.4	50-150			
Methyl iodide	0.0243	0.00500	"	0.0500	<	48.6	50-150			A-05
Methylene chloride	0.0536	0.0100	"	0.0500	<	107	50-150			
Naphthalene	0.0405	0.00500	"	0.0500	<	81.0	50-150			
4-Methyl-2-pentanone	0.176	0.0500	"	0.200	<	88.0	50-150			
N-Propylbenzene	0.0465	0.00500	"	0.0500	<	93.0	50-150			
Styrene	0.0468	0.00500	"	0.0500	<	93.6	50-150			
1,1,1,2-Tetrachloroethane	0.0472	0.00500	"	0.0500	<	94.4	50-150			
1,1,2,2-Tetrachloroethane	0.0477	0.00500	"	0.0500	<	95.4	50-150			
Tetrachloroethene	0.0463	0.00500	"	0.0500	<	92.6	50-150			
Toluene	0.0494	0.00500	"	0.0500	<	98.8	50-150			
1,2,3-Trichlorobenzene	0.0424	0.00500	"	0.0500	<	84.8	50-150			
1,2,4-Trichlorobenzene	0.0417	0.00500	"	0.0500	<	83.4	50-150			
1,1,1-Trichloroethane	0.0522	0.00500	"	0.0500	<	104	50-150			
1,1,2-Trichloroethane	0.0529	0.00500	"	0.0500	<	106	50-150			
Trichloroethene	0.0503	0.00500	"	0.0500	<	101	50-150			
Trichlorofluoromethane	0.0546	0.00500	"	0.0500	<	109	50-150			
1,2,3-Trichloropropane	0.0521	0.00500	"	0.0500	<	104	50-150			
1,2,4-Trimethylbenzene	0.0439	0.00500	"	0.0500	<	87.8	50-150			
1,3,5-Trimethylbenzene	0.0457	0.00500	"	0.0500	<	91.4	50-150			
Vinyl acetate	0.114	0.0500	"	0.200	<	57.0	50-150			
Vinyl chloride	0.0450	0.00200	"	0.0500	<	90.0	50-150			
Xylenes total	0.139	0.0150	"	0.150	<	92.7	50-150			
Surrogate: 4-Bromofluorobenzene	51.4		ug/L	50.0		103	76-122			
Surrogate: 1,2-Dichloroethane-d4	51.8		"	50.0		104	75-125			
Surrogate: Toluene-d8	51.3		"	50.0		103	79-120			
Surrogate: Dibromofluoromethane	51.8		"	50.0		104	81-125			

Certes Environmental Laboratories, LLC

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Gale Denman

Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB41004 - EPA 8260B

Matrix Spike Dup (AB41004-MSD1)

Source: 0400411-01

Prepared & Analyzed: 02/10/04

Acetone	0.282	0.100	mg/L	0.200	0.0180	132	50-150	29.3	25	A-05
Acrolein	0.121	0.100	"	0.200	<	60.5	50-150	0.823	25	
Acrylonitrile	0.0639	0.100	"	0.0500	<	128	50-150	24.4	25	J
Benzene	0.0602	0.00500	"	0.0500	<	120	50-150	18.9	25	
1-Chloro-2-methyl-benzene	0.0615	0.00500	"	0.0500	<	123	50-150	23.2	25	
1-Chloro-4-methyl-benzene	0.0620	0.00500	"	0.0500	<	124	50-150	20.2	25	
Bromobenzene	0.0595	0.00500	"	0.0500	<	119	50-150	20.0	25	
Bromochloromethane	0.0577	0.00500	"	0.0500	<	115	50-150	24.7	25	
Bromodichloromethane	0.0654	0.00500	"	0.0500	<	131	50-150	23.4	25	
Bromoform	0.0600	0.00500	"	0.0500	<	120	50-150	26.2	25	A-05
Bromomethane	0.0634	0.0100	"	0.0500	<	127	50-150	19.9	25	
2-Butanone	0.231	0.0500	"	0.200	<	116	50-150	31.6	25	A-05
trans-1,4-Dichloro-2-butene	0.0490	0.00500	"	0.0500	<	98.0	50-150	22.5	25	
n-Butylbenzene	0.0509	0.00500	"	0.0500	<	102	50-150	33.2	25	A-05
sec-Butylbenzene	0.0565	0.00500	"	0.0500	<	113	50-150	31.8	25	A-05
tert-Butylbenzene	0.0556	0.00500	"	0.0500	<	111	50-150	30.0	25	A-05
Methyltert-butylether	0.0492	0.00500	"	0.0500	<	98.4	50-150	9.81	25	
Carbon disulfide	0.0679	0.100	"	0.0500	<	136	50-150	21.4	25	J
Carbon tetrachloride	0.0602	0.00500	"	0.0500	<	120	50-150	18.5	25	
Chlorobenzene	0.0587	0.00500	"	0.0500	<	117	50-150	20.9	25	
Chloroethane	0.0626	0.00500	"	0.0500	<	125	50-150	28.5	25	A-05
2-Chloroethylvinylether	<	0.0150	"	0.100	<		50-150		25	A-05
Chloroform	0.0629	0.00500	"	0.0500	<	126	50-150	21.5	25	
Chloromethane	0.0681	0.0100	"	0.0500	<	136	50-150	30.5	25	A-05
1,2-Dibromo-3-chloropropane	0.0528	0.00500	"	0.0500	<	106	50-150	32.6	25	A-05
Dibromochloromethane	0.0637	0.00500	"	0.0500	<	127	50-150	17.2	25	
1,2-Dibromoethane	0.0620	0.0100	"	0.0500	<	124	50-150	22.8	25	
Dibromomethane	0.0662	0.00500	"	0.0500	<	132	50-150	23.6	25	
1,2-Dichlorobenzene	0.0603	0.00500	"	0.0500	<	121	50-150	20.7	25	
1,3-Dichlorobenzene	0.0586	0.00500	"	0.0500	<	117	50-150	21.1	25	
1,4-Dichlorobenzene	0.0574	0.00500	"	0.0500	<	115	50-150	22.1	25	
Dichlorodifluoromethane	0.0245	0.00500	"	0.0500	<	49.0	50-150	22.7	25	A-05
1,1-Dichloroethane	0.0574	0.00500	"	0.0500	<	115	50-150	20.8	25	
1,2-Dichloroethane	0.0651	0.00500	"	0.0500	<	130	50-150	24.5	25	

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Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AB41004 - EPA 8260B										
Matrix Spike Dup (AB41004-MSD1)		Source: 0400411-01			Prepared & Analyzed: 02/10/04					
1,1-Dichloroethene	0.0666	0.00500	mg/L	0.0500	<	133	50-150	21.1	25	
cis-1,2-Dichloroethene	0.0639	0.00500	"	0.0500	<	128	50-150	21.3	25	
trans-1,2-Dichloroethene	0.0570	0.00500	"	0.0500	<	114	50-150	16.5	25	
1,2-Dichloropropane	0.0620	0.00500	"	0.0500	<	124	50-150	19.9	25	
1,3-Dichloropropane	0.0616	0.00500	"	0.0500	<	123	50-150	16.9	25	
2,2-Dichloropropane	0.0563	0.00500	"	0.0500	<	113	50-150	16.3	25	
1,1-Dichloropropene	0.0534	0.00500	"	0.0500	<	107	50-150	16.2	25	
cis-1,3-Dichloropropene	0.0569	0.00500	"	0.0500	<	114	50-150	22.5	25	
trans-1,3-Dichloropropene	0.0524	0.00500	"	0.0500	<	105	50-150	17.4	25	
Ethylbenzene	0.0590	0.00500	"	0.0500	<	118	50-150	23.1	25	
Hexachlorobutadiene	0.0527	0.00500	"	0.0500	<	105	50-150	34.0	25	A-05
2-Hexanone	0.226	0.0500	"	0.200	<	113	50-150	30.6	25	A-05
Isopropylbenzene	0.0681	0.00500	"	0.0500	<	136	50-150	22.4	25	
p-Isopropyltoluene	0.0540	0.00500	"	0.0500	<	108	50-150	31.8	25	A-05
Methyl iodide	0.0292	0.00500	"	0.0500	<	58.4	50-150	18.3	25	
Methylene chloride	0.0669	0.0100	"	0.0500	<	134	50-150	22.1	25	
Naphthalene	0.0532	0.00500	"	0.0500	<	106	50-150	27.1	25	A-05
4-Methyl-2-pentanone	0.225	0.0500	"	0.200	<	112	50-150	24.4	25	
N-Propylbenzene	0.0597	0.00500	"	0.0500	<	119	50-150	24.9	25	
Styrene	0.0590	0.00500	"	0.0500	<	118	50-150	23.1	25	
1,1,1,2-Tetrachloroethane	0.0584	0.00500	"	0.0500	<	117	50-150	21.2	25	
1,1,2,2-Tetrachloroethane	0.0605	0.00500	"	0.0500	<	121	50-150	23.7	25	
Tetrachloroethene	0.0570	0.00500	"	0.0500	<	114	50-150	20.7	25	
Toluene	0.0596	0.00500	"	0.0500	<	119	50-150	18.7	25	
1,2,3-Trichlorobenzene	0.0552	0.00500	"	0.0500	<	110	50-150	26.2	25	A-05
1,2,4-Trichlorobenzene	0.0538	0.00500	"	0.0500	<	108	50-150	25.3	25	A-05
1,1,1-Trichloroethane	0.0620	0.00500	"	0.0500	<	124	50-150	17.2	25	
1,1,2-Trichloroethane	0.0635	0.00500	"	0.0500	<	127	50-150	18.2	25	
Trichloroethene	0.0601	0.00500	"	0.0500	<	120	50-150	17.8	25	
Trichlorofluoromethane	0.0682	0.00500	"	0.0500	<	136	50-150	22.1	25	
1,2,3-Trichloropropane	0.0660	0.00500	"	0.0500	<	132	50-150	23.5	25	
1,2,4-Trimethylbenzene	0.0573	0.00500	"	0.0500	<	115	50-150	26.5	25	A-05
1,3,5-Trimethylbenzene	0.0579	0.00500	"	0.0500	<	116	50-150	23.6	25	
Vinyl acetate	0.115	0.0500	"	0.200	<	57.5	50-150	0.873	25	

Certes Environmental Laboratories, LLC

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Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB41004 - EPA 8260B

Matrix Spike Dup (AB41004-MSD1)

Source: 0400411-01

Prepared & Analyzed: 02/10/04

Vinyl chloride	0.0615	0.00200	mg/L	0.0500	<	123	50-150	31.0	25	A-05
Xylenes total	0.178	0.0150	"	0.150	<	119	50-150	24.6	25	
Surrogate: 4-Bromofluorobenzene	50.5		ug/L	50.0		101	76-122			
Surrogate: 1,2-Dichloroethane-d4	52.0		"	50.0		104	75-125			
Surrogate: Toluene-d8	49.2		"	50.0		98.4	79-120			
Surrogate: Dibromofluoromethane	50.3		"	50.0		101	81-125			

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Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB40504 - EPA 8270

Blank (AB40504-BLK1)

Prepared & Analyzed: 02/05/04

Acenaphthene	<	0.00100	mg/L							
Acenaphthylene	<	0.00100	"							
Anthracene	<	0.00100	"							
Benzo(a)anthracene	<	0.00200	"							
Benzo(a)pyrene	<	0.00150	"							
Benzo(b)fluoranthene	<	0.00150	"							
Benzo(g,h,i)perylene	<	0.00200	"							
Benzo(k)fluoranthene	<	0.00150	"							
Indeno(1,2,3-cd)pyrene	<	0.00150	"							
Chrysene	<	0.00100	"							
Dibenz(a,h)anthracene	<	0.00150	"							
Fluoranthene	<	0.00100	"							
Fluorene	<	0.00100	"							
Naphthalene	<	0.00100	"							
Phenanthrene	<	0.00100	"							
Pyrene	<	0.00100	"							
Surrogate: p-Terphenyl-d14	0.0461		"	0.0501		92.0	52-125			
Surrogate: Nitrobenzene-d5	0.0336		"	0.0501		67.1	40-95			
Surrogate: 2-Fluorobiphenyl	0.0393		"	0.0502		78.3	50-110			

LCS (AB40504-BS1)

Prepared & Analyzed: 02/05/04

Acenaphthene	0.0410	0.00100	mg/L	0.0500		82.0	54-106			
Acenaphthylene	0.0432	0.00100	"	0.0500		86.4	50-105			
Anthracene	0.0422	0.00100	"	0.0500		84.4	54-112			
Benzo(a)anthracene	0.0415	0.00200	"	0.0500		83.0	56-110			
Benzo(a)pyrene	0.0454	0.00150	"	0.0500		90.8	55-110			
Benzo(b)fluoranthene	0.0449	0.00150	"	0.0500		89.8	45-118			
Benzo(g,h,i)perylene	0.0321	0.00200	"	0.0500		64.2	40-125			
Benzo(k)fluoranthene	0.0486	0.00150	"	0.0500		97.2	45-124			
Indeno(1,2,3-cd)pyrene	0.0346	0.00150	"	0.0500		69.2	45-125			
Chrysene	0.0416	0.00100	"	0.0500		83.2	55-110			
Dibenz(a,h)anthracene	0.0370	0.00150	"	0.0500		74.0	42-125			
Fluoranthene	0.0393	0.00100	"	0.0501		78.4	55-115			
Fluorene	0.0400	0.00100	"	0.0500		80.0	50-110			
Naphthalene	0.0387	0.00100	"	0.0500		77.4	40-100			

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Gale Denman, Project Manager

Shaw Environmental-Austin
8501 N. Mopac Suite 320
Austin TX, 78759

Project: Zilker Park
Project Number: 803957
Project Manager: Martin Romanak

Reported:
04/07/04 16:43

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Certes Environmental Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AB40504 - EPA 8270

LCS (AB40504-BS1)

Prepared & Analyzed: 02/05/04

Phenanthrene	0.0412	0.00100	mg/L	0.0500		82.4	50-115			
Pyrene	0.0394	0.00100	"	0.0500		78.8	67-112			
Surrogate: p-Terphenyl-d14	0.0495		"	0.0501		98.8	52-125			
Surrogate: Nitrobenzene-d5	0.0374		"	0.0501		74.7	40-95			
Surrogate: 2-Fluorobiphenyl	0.0418		"	0.0502		83.3	50-110			

LCS Dup (AB40504-BSD1)

Prepared & Analyzed: 02/05/04

Acenaphthene	0.0419	0.00100	mg/L	0.0500		83.8	54-106	2.17	25	
Acenaphthylene	0.0445	0.00100	"	0.0500		89.0	50-105	2.96	25	
Anthracene	0.0440	0.00100	"	0.0500		88.0	54-112	4.18	25	
Benzo(a)anthracene	0.0416	0.00200	"	0.0500		83.2	56-110	0.241	25	
Benzo(a)pyrene	0.0452	0.00150	"	0.0500		90.4	55-110	0.442	25	
Benzo(b)fluoranthene	0.0460	0.00150	"	0.0500		92.0	45-118	2.42	25	
Benzo(g,h,i)perylene	0.0304	0.00200	"	0.0500		60.8	40-125	5.44	25	
Benzo(k)fluoranthene	0.0504	0.00150	"	0.0500		101	45-124	3.64	25	
Indeno(1,2,3-cd)pyrene	0.0318	0.00150	"	0.0500		63.6	45-125	8.43	25	
Chrysene	0.0419	0.00100	"	0.0500		83.8	55-110	0.719	25	
Dibenz(a,h)anthracene	0.0351	0.00150	"	0.0500		70.2	42-125	5.27	25	
Fluoranthene	0.0386	0.00100	"	0.0501		77.0	55-115	1.80	25	
Fluorene	0.0413	0.00100	"	0.0500		82.6	50-110	3.20	25	
Naphthalene	0.0403	0.00100	"	0.0500		80.6	40-100	4.05	25	
Phenanthrene	0.0429	0.00100	"	0.0500		85.8	50-115	4.04	25	
Pyrene	0.0380	0.00100	"	0.0500		76.0	67-112	3.62	25	
Surrogate: p-Terphenyl-d14	0.0529		"	0.0501		106	52-125			
Surrogate: Nitrobenzene-d5	0.0370		"	0.0501		73.9	40-95			
Surrogate: 2-Fluorobiphenyl	0.0418		"	0.0502		83.3	50-110			

Certes Environmental Laboratories, LLC

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Gale Denman

Gale Denman, Project Manager

Notes and Definitions

S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
M	Recoveries out of range due to matrix interferences inherent in the sample. Sample has been re-run to confirm the matrix interference.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
A-05	Results AND/OR Percent Recoveries/RPDs are outside Certes QC limit.
A-01	Percent recovery outside of established control limits. Unable to re-extract due to limited sample volume.
DET	Analyte DETECTED
<	Analyte NOT DETECTED at or above the sample quantitation limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

