Tuchman Cleaners
Site # 1991 02 503
Site Characterization

URS

INTERIM SUMMARY REPORT
STAGE I FIELD ACTIVITIES
GROUNDWATER INVESTIGATION

TUCHMAN CLEANERS FACILITY
4401 N. KEYSTONE AVENUE
INDIANAPOLIS, INDIANA

Prepared for:

NATIONAL DRYCLEANERS, INC.
PRAIRIE VILLAGE, KANSAS

JOB NO.: 30351-022-121
NOVEMBER 1, 2002

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November 1, 2002

Indiana Department of Environmental Management
100 North Senate Avenue
P.O. Box 6015
Indianapolis, IN 46206-6015

Attention: Ms. Dawn Shirley
State Cleanup Program, Office of Land Quality

Ladies and Gentlemen:

Interim Summary Report
Stage I Field Activities
Tuchman Cleaners Facility
4401 N. Keystone Ave.
Indianapolis, Indiana
Incident #1991-02-503

On behalf of Tuchman Cleaners (Tuchman), URS has prepared this interim summary report to present the results of Stage I subsurface soil and groundwater investigation at the Tuchman facility located at 4401 North Keystone Avenue in Indianapolis, Indiana. The Stage I investigation was designed to supplement previous investigations conducted in 1989, 1990, 1993, and 1995 in the evaluation of the nature and extent of impact to soil and groundwater onsite.

This summary presents the data collected to date and proposes modifications to the Stage II Investigation in response to the data reported herein. Upon completion of the Stage II investigation, an Investigation Report will be prepared and submitted to Indiana Department of Environmental Management (IDEM). The report will follow the format prescribed by IDEM State Cleanup Program in Appendix 1 of the Risk Integrated System of Closure (RISC) User's Guide dated February 15, 2001.

FIELD ACTIVITIES

The Stage I Field Activities were conducted between July 24 and August 2, 2002 in accordance with the Investigation Work Plan dated March 4, 2002. The activities included the advancement of 26 geoprobe borings and the collection of discrete groundwater samples

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at 19 of these locations. Figure 2 illustrates the locations of the borings and designates whether soil and/or groundwater samples were selected for analy

As discussed in the Investigation Work Plan, geoprobe borings GP-1 through GP-13 were advanced to evaluate the subsurface immediately adjacent to suspected tetrachloroethene (PCE) source areas. Several locations (GP-14 through GP-22) were selected to provide spatial coverage over an area with no known potential source in order to delineate the horizontal extent of impact within the uppermost groundwater zone. Additional borings GP-23 through GP-27 were advanced to expand the delineation in areas where earlier borings suggested unexpected impact.

The Stage I soil borings were advanced using a Geoprobe Model 55 LT machine and sampled continuously through the uppermost groundwater unit and into the underlying glacial till that was encountered within 25 feet below ground surface (bgs). Field samples of the underlying glacial till were collected when possible to evaluate whether the vertical extent of impact within the uppermost water unit was limited by the till unit and identify the presence or absence of dense non-aqueous phase liquids (DNAPLs) at this hydraulic boundary.

Soil samples were divided into 1-foot intervals, screened for volatile organcic compounds (VOCs) [including solvent-related compounds] in the field using a photoionization detector (PID), and split between laboratory-supplied soil sample containers for potential analysis and sealable plastic bags for subsequent headspace measurements. Subsurface conditions were logged based on the soil sample recovery. At boring locations where insufficient soil sample was recovered (less than 50 percent over a 4-foot geoprobe sampling run), a second boring was advanced immediately adjacent to the original to recover missing sampling intervals. Soil samples were visually classified in the field according to the descriptive terminology of the Unified Soil Classification System (USCS) presented in ASTM D-2488.

Because of the potential for DNAPLs to exist within the subsurface soil, all headspace samples were also visually examined under an ultraviolet (UV) light, as described by Cohen et al. (1992). UV light observations were recorded for each 1-foot interval where an adequate portion of the recovered soil sample was available in the sealable plastic bag. The sample was viewed under a hood in the UV light as it was manipulated within the bag in order to squeeze potential DNAPL fluid within the soil out and against the wall of the bag.

At least one soil sample per soil boring was selected for laboratory analysis based on initial PID or organic vapor analyzer (OVA) readings, UV light observations and visual evidence of contamination as determined by the field team. One boring, GP-19, had no soil sample selected for analysis because the field measurements and observations indicated no impact among the samples within the boring. The available soil analysis was instead selected from one of several borings where multiple analytical tests were needed within a boring to define the extent of impact.

Limited access to boring location GP-3 prevented the use of a geoprobe rig to advance the boring. Consequently, the geoprobe sampler was advanced by hand (hammer) and was limited in depth to 8 feet bgs. A groundwater sample at geoprobe GP-6 was inadvertently overlooked and consequently no groundwater data were generated at this location.

All samples were stored in coolers chilled with ice to maintain temperature at approximately 4°C. After a sampling round that covered up to 3 days of sampling, sample coolers were shipped to the analytical laboratory under chain-of-custody protocol by overnight courier.

SAMPLE ANALYSIS

Soil and groundwater samples were analyzed for VOCs using SW-846 Method 8260B, as described in the U.S. Environmental Protection Agency (EPA) publication, Test Methods for Evaluation of Solid Wastes, Physical/Chemical Methods (SW-846, 3rd Edition, Update 3).

In addition to the VOC analysis, two soil samples were collected above and below the water table at boring location GP-22B. These samples were delivered to Bowser-Morner, Inc. of Dayton, Ohio for total organic carbon (TOC) testing using ASTM D 2974 and geotechnical testing of soil moisture content (ASTM D-2216), specific gravity (ASTM D-854), unit weight, Void Ratio, and porosity (EM-1110-2-1906, Appendix II). This data will aid in understanding the partitioning of contaminants between the soil and groundwater.

RESULTS

As discussed in the Investigation Work Plan, the objectives of the first Stage of field activities are to identify sources of continuing chlorinated volatile organic compound (CVOC) contamination and define horizontal and vertical extent of CVOC impact within the source area. In adherence with the Quality Assurance Project Plan (QAPP), the types of data used to evaluate the objectives are field observations and measurements, and the analytical results of the soil and groundwater samples submitted to the laboratory.

Field data collected from each 1-foot soil sample recovered include PID screening and PID headspace measurements, visual and olfactory evaluations, and a DNAPL examination. These observations, measurements, and evaluations are recorded on the boring logs that are presented in Appendix A.

The results of laboratory analysis of the soil and groundwater samples collected during the Stage I activities are presented in attached Tables 1 and 2, respectively. The laboratory reports are included in Appendix B.

The shallow subsurface described from the borings in the Stage I field investigation reveal subsurface conditions similar to those reported in Section 2.3 of the Investigation Work Plan. Figures 3 and 4 illustrate the shallow subsurface conditions along cross-section traces A-A' and B-B', respectively, as traced out on Figure 2. Subsurface materials include a sandy clay

over a sand and gravel unit overlying a stiff glacial till that is relatively dry. These unconsolidated units were encountered at depths consistent across the site.

Shallow Groundwater

The analytical results of shallow groundwater collected from the geoprobe borings advanced during the Stage I field activities, as presented in Table 2, demonstrate high CVOC concentrations from GP-15, GP-2, GP-5, and GP-14. This data is combined with the groundwater sampling event conducted in June 2002 to provide a current groundwater impact model, as illustrated in Figure 5.

REVISIONS TO THE STAGE II ACTIVITES

Based on observations and data collected during the Stage I field activities and to address comments made by IDEM in their comment letter dated June 18, 2002, Tuchman proposes to implement the following revisions to the Stage II field activities:

- Shallow and intermediate monitoring well clusters MW-13 and MW-14, originally positioned at the western property boundary, are being relocated towards the west at off-site locations. This modification is implemented to accommodate Comment #2 from IDEM's letter dated June 18, 2002 (pending offsite owner approval, monitoring wells MW-14 and MW-14I may be moved south the existing building to provide greater lateral coverage in the downgradient [southwest] direction)

- Interior monitoring well (and potential recovery well) RW-3 is being relocated approximately 10 north to position it more appropriately with the groundwater findings from geoprobe borings GP-14 and GP-15

- An additional shallow monitoring well, MW-17, will be installed immediately southwest of recovery well RW-1

These revisions are reflected on Figure 6.

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These revisions have generated delays, specifically regarding securing access to the off-site locations for monitoring well installation and groundwater sampling. As was verbally discussed with IDEM on several occasions, these necessary delays have impacted the schedule. Assuming the City of Indianapolis grants Tuchman an encroachment license and final offsite access agreements are secured by November 8, 2002, the Stage II field activities are scheduled to commence on November 11, 2002. Modifying the schedule provided in Table 5 of the IWP such that Week 7 begins on November 11, 2002, this extends the due date of the Investigation Report to January 6, 2003. This submittal date was confirmed by IDEM in their letter dated October 22, 2002.

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If there are any questions regarding this letter, please do not hesitate to contact the undersigned at 513-651-3440 or Mr. Randy Jackson representing Tuchman Cleaners at 913-671-7546.

Very truly yours,

URS

William R. Eckhoff

William R. Eckhoff
Geologist

Dennis P. Connair, C.P.G. #1535
Principal

WRE/DPC/Tuchman server
30351-022-121

Copy: Mr. Randy Jackson

TABLE 1

ANALYTICAL RESULTS SUMMARY
SOIL SAMPLING - STAGE I FIELD ACTIVITIES
JULY 2002

TUCHMAN CLEANERS
4401 KEYSTONE AVENUE
INDIANAPOLIS, INDIANA

	Soil Borings											
Parameters	GP-1 (3 ft)	GP-1 (12 ft)	GP-2 (16 ft)	GP-3 (7 ft)	GP-4A (8 ft)	GP-4B (15 ft)	GP-5 (7 ft)	GP-5 (15 ft)	GP-6 (2 ft)	GP-7 (16 ft)	GP-8 (2 ft)	GP-8 (14 ft)
Volatile Organic Compounds (mg/kg)												
n-Butylbenzene	-	-	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	-	-	-	-	-	4.1	0.94	-	-	0.67	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	0.54	-	-	-
p-Isopropyltoluene	-	-	-	-	-	0.51	0.83	-	-	-	-	-
Naphthalene	-	-	-	-	-	-	-	-	-	-	-	-
n-Propylbenzene	-	-	-	-	-	-	0.75	-	-	-	-	-
Tetrachloroethene	1.7	3.9	25	0.062	-	-	-	-	12	-	240	12
Trichloroethene	0.11	-	-	-	-	-	-	-	0.66	-	-	-
1,2,4-Trimethylbenzene	-	-	-	-	8.4	-	5.5	-	0.59	-	-	-
1,3,5-Trimethylbenzene	-	-	-	-	6.8	-	3.4	-	-	-	-	-
Cumulative Concentration	1.81	3.9	25	0.062	15.2	4.61	11.42	-	13.79	0.67	240	12
CVOC Component	1.81	3.9	25	0.062	0	0	0	0	13.2	0	240	12
Stoddard Component	0	0	0	0	15.2	4.61	11.42	0	0.59	0.67	0	0

TABLE 1 (Continued)

Parameters	Soil Borings										
	GP-9 (3 ft)	GP-10 (2 ft)	GP-11 (12 ft)	GP-12 (3 ft)	GP-12 (7 ft)	GP-12 (24 ft)	GP-13 (1 ft)	GP-13 (4 ft)	GP-14 (12 ft)	GP-14 (24 ft)	GP-14 (25 ft)
Volatile Organic Compounds (mg/kg)											
n-Butylbenzene	-	-	-	-	-	-	-	0.83	-	-	-
sec-Butylbenzene	-	-	-	-	-	-	-	0.28	-	-	-
cis-1,2-Dichloroethene	-	0.61	-	-	-	-	-	-	-	-	-
p-Isopropyltoluene	-	-	-	-	-	-	-	0.26	-	-	-
Naphthalene	-	-	-	-	-	-	-	2	-	-	-
n-Propylbenzene	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	9.2	19	1.4	2.8	0.42	-	2,400	0.33	5.8	18	7.1
Trichloroethene	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	-	-	-	-	-	-	-	0.87	-	-	-
1,3,5-Trimethylbenzene	-	-	-	-	-	-	-	0.44	-	-	-
Cumulative Concentration	9.2	19.61	1.4	2.8	0.42	0	2,400	5.01	5.8	18	7.1
CVOC Component	9.2	19.61	1.4	2.8	0.42	0	2400	0.33	5.8	18	7.1
Stoddard Component	0	0	0	0	0	0	0	4.68	0	0	0

TABLE 1 (Continued)

Parameters	Soil Borings										
	GP-15 (3 ft)	GP-15 (11 ft)	GP-15 (25 ft)	GP-15 (26 ft)	GP-16 (3 ft)	GP-16 (20 ft)	GP-16 (DUP) (20 ft) (GP-100)	GP-17 (4 ft)	GP-17 (12 ft)	GP-18 (2 ft)	GP-18 (24 ft)
Volatile Organic Compounds (mg/kg)											
n-Butylbenzene	-	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-	-
p-Isopropyltoluene	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	-	-	-	-	-	-	-	-	-	-	-
n-Propylbenzene	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	4.3	4.5	140	12	1.2	2	1.2	2.5	7.2	10	0.01
Trichloroethene	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	-	-	-	-	-	-	-	-	-	-	-
Cumulative Concentration	4.3	4.5	140	12	1.2	2	1.2	2.5	7.2	10	0.01
CVOC Component	4.3	4.5	140	12	1.2	2	1.2	2.5	7.2	10	0.01
Stoddard Component	0	0	0	0	0	0	0	0	0	0	0

TABLE 1 (Continued)

Parameters	Soil Borings									
	GP-20 (2 ft)	GP-21 (8 ft)	GP-22 (7 ft)	GP-23 (10 ft)	GP-24 (2 ft)	GP-25A (2 ft)	GP-25B (10 ft)	GP-26 (2 ft)	GP-26 (DUP) (2 ft)	GP-27 (4 ft)
Volatile Organic Compounds (mg/kg)										
n-Butylbenzene	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	-	-	-	-	-	-	-	-	-	-
p-Isopropyltoluene	-	-	-	-	-	-	-	-	-	-
Naphthalene	-	-	-	-	-	-	-	-	-	-
n-Propylbenzene	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	30	0.23	0.62	0.061	13	290	6	130	55	-
Trichloroethene	-	0.0057	-	-	-	14	-	-	-	-
1,2,4-Trimethylbenzene	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	-	-	-	-	-	-	-	-	-	-
Cumulative Concentration	30	0.2357	0.62	0.061	13	304	6	130	55	0
CVOC Component	30	0.2357	0.62	0.061	13	304	6	130	55	0
Stoddard Component	0	0	0	0	0	0	0	0	0	0

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING - STAGE I FIELD ACTIVITIES
JULY 2002

TUCHMAN CLEANERS
4401 KEYSTONE AVENUE
INDIANAPOLIS, INDIANA

	Boring Locations									
Parameters	GP-1	GP-2	GP-4	GP-5	GP-7	GP-8	GP-9	GP-10	GP-11	GP-11 DUP (GP-100)
Volatile Organic Compounds (mg/kg)										
Tetrachloroethene	0.0055	2.5	0.56	2.5	0.4	0.33	0.74	-	0.052	0.038
1,1,2-Trichloroethane	-	0.069	-	-	-	-	-	-	-	
Cumulative Concentration	0.0055	2.569	0.56	2.5	0.4	0.33	0.74	-	0.052	0.038

TABLE 2 (Continued)

Parameters	Boring Locations									
	GP-12	GP-13	GP-14	GP-15	GP-16	GP-17	GP-19	GP-20	GP-21	GP-21 DUP GP-200
Volatile Organic Compounds (mg/kg)										
Tetrachloroethene	0.027	0.012	1.7	8.8	0.064	0.12	0.065	0.018	0.032	0.031
1,1,2-Trichloroethane	-	-	-	-	-	-	-	-	-	-
Cumulative Concentration	0.027	0.012	1.7	8.8	0.064	0.12	0.065	0.018	0.032	0.031

TABLE 2 (Continued)

Parameters	QA Samples and Duplicates					
	GP-23	GP-23 DUP GP-100	Trip Blank #1	Trip Blank #2	Trip Blank #3	Field Blank
Volatile Organic Compounds (mg/kg)						
Tetrachloroethene	0.077	0.091	-	-	-	-
1,1,2-Trichloroethane	-	-				
Cumulative Concentration	0.077	0.091	-	-	-	-

Trip Blank #1 was shipped with groundwater samples GP-4, GP-5, GP-7, GP-8, and GP-13.
Trip Blank #2 was shipped with groundwater samples GP-1, GP-9, GP-11 and DUP (GP-100), GP-14, GP-15, GP-16, GP-17, GP-19, and GP-20.
Trip Blank #3 was shipped with groundwater samples GP-2, GP-10, GP-12, GP-21and DUP (GP-200), GP-23 and DUP (GP-100), and Field Blank

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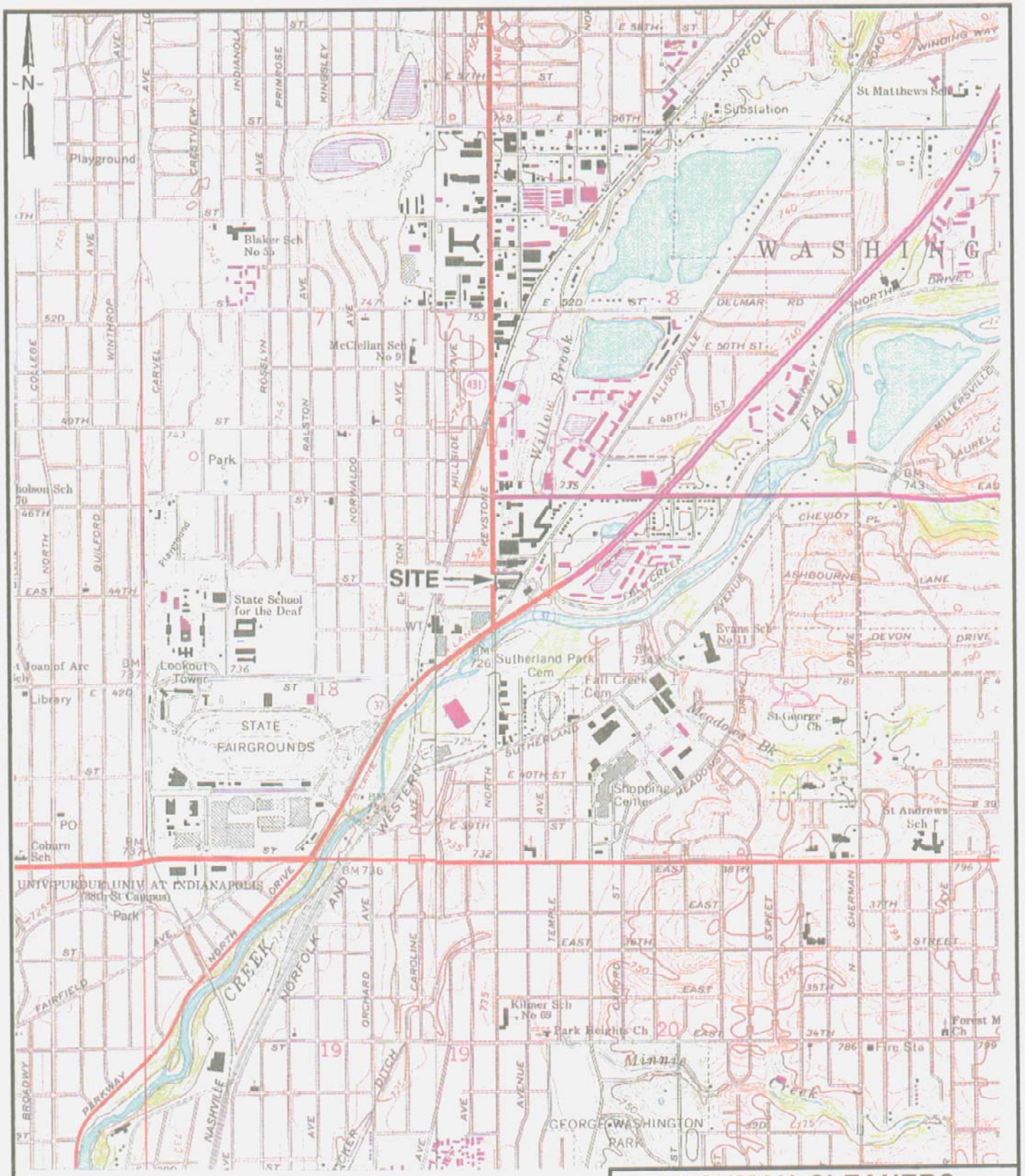

BASE MAP SOURCE: Compiled from the following USGS 7 1/2 minute topographic quadrangle maps: Indianapolis East, Indiana 1967, photorevised 1980; Indianapolis West, Indiana 1967, photorevised 1980, photoinspected 1984.

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4401 NORTH KEYSTONE AVENUE
INDIANAPOLIS, INDIANA

FIGURE 1
SITE VICINITY MAP

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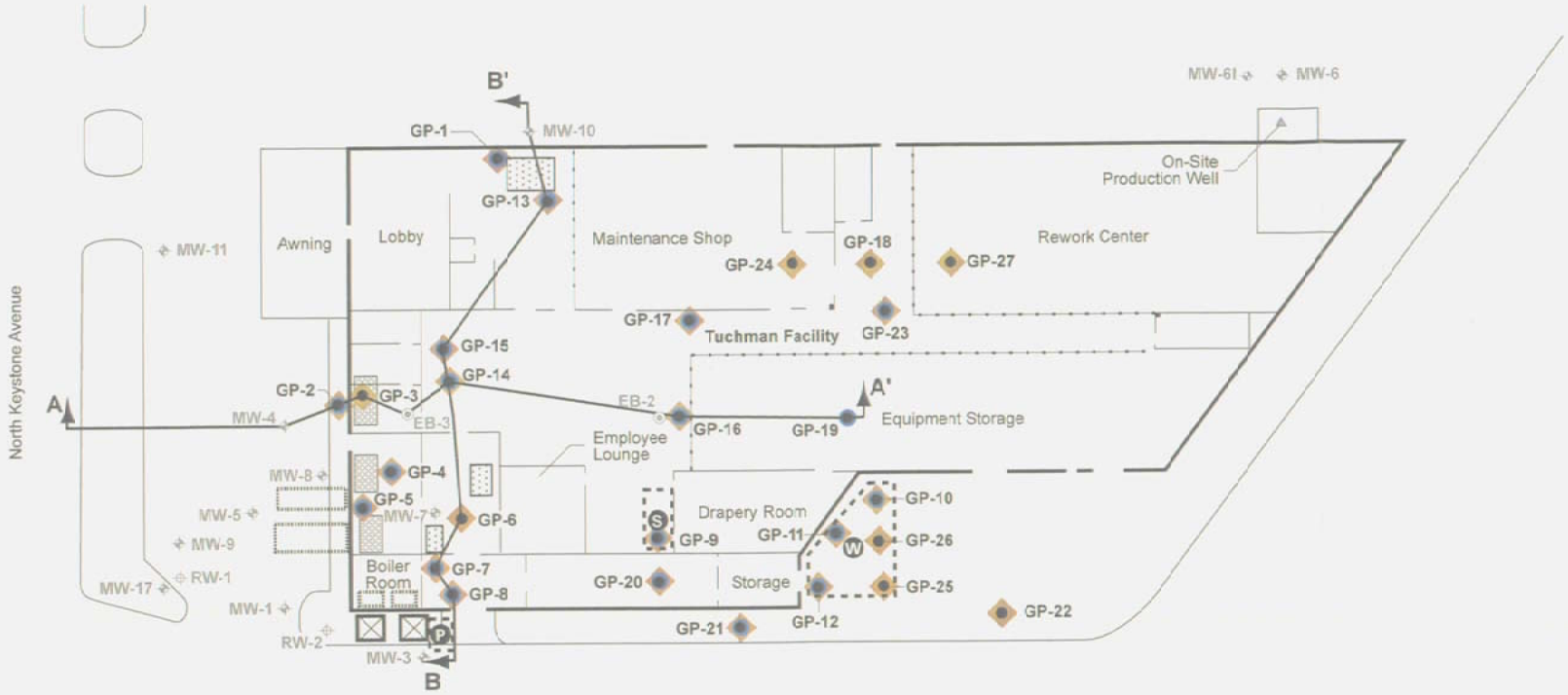

LEGEND:

- Fence
- Equipment Storage Building
- Monitoring Well Location
- Recovery Well Location
- On-Site Production Well
- Soil Boring Location
- Approximate Current Drycleaning Machine Location
- Approximate Former Drycleaning Machine Location
- Reported Former Stoddard Solvent, Gasoline or Diesel Underground Storage Tank (Approximate Location)
- W Historical Waste Storage
- S Suede & Leather Cleaning
- P Historic PCE Spill
- GP-1 Geoprobe Boring Location (URS, July-August 2002)
- Soil Sample Submitted for Analysis
- Groundwater Sample Submitted for Analysis
- A A' Cross Section Location

0 30 60
APPROXIMATE SCALE IN FEET

NOTES:
- All boring and monitoring well locations are approximate.

BASE MAP SOURCE: Modified from Sanborn Fire Insurance Rate Map, Sheet 550A, 1957; and Gray Management Consulting, Dayton, Tennessee, Uniform Rental and Dust Control, June 13, 1984.

TUCHMAN CLEANERS
4401 NORTH KEYSTONE AVENUE
INDIANAPOLIS, INDIANA

FIGURE 2
SITE LAYOUT MAP AND CROSS SECTION LOCATIONS

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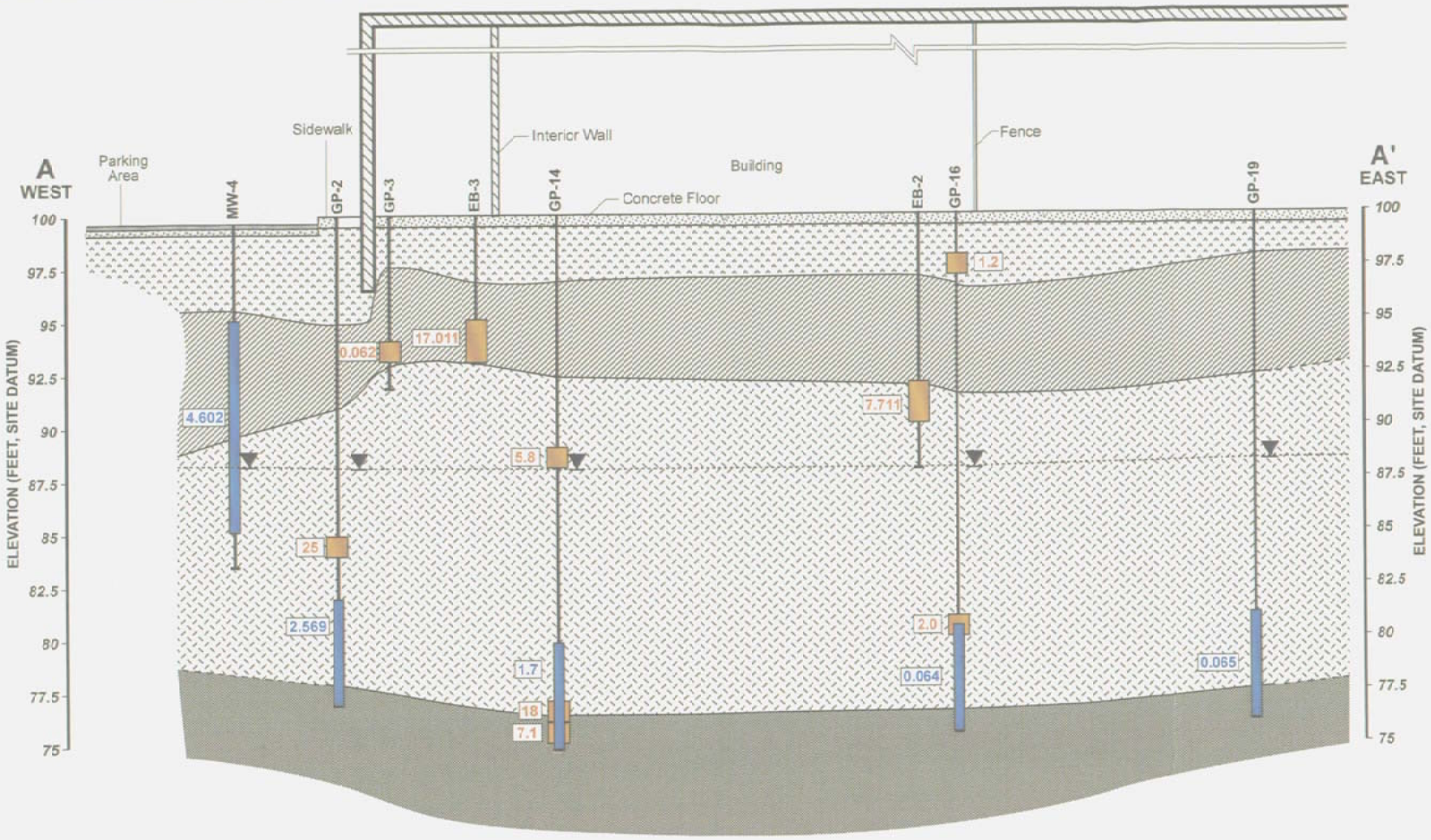

LEGEND:

- Silty Fine to Coarse Sand, Loose, Dry to Moist
- Sandy Clay with Silt and Gravel, Medium Stiff, Moist
- Silty Very Fine to Coarse Sand and Gravel, Loose, Dry to Wet
- Sandy CLAY with Silt and Gravel, Very Stiff to Hard, Dry
- Piezometric Surface
- GP-2 Boring or Monitoring Well Location and Number
- Soil Sample Interval
- Water Sample Interval
- 25 Total Soil VOC Concentration (mg/kg)
- 0.064 Total Water VOC Concentration (mg/L)

NOTES:
- The depth and thickness of the strata indicated on the subsurface section were obtained by interpolating between test borings. Information on actual conditions exists only at the locations of the test borings and it is possible that the conditions may vary from those indicated.
- For location of cross section, see Figure 2.

5
0
0 15
SCALE IN FEET
VERTICAL EXAGGERATION = 3x

TUCHMAN CLEANERS
4401 NORTH KEYSTONE AVENUE
INDIANAPOLIS, INDIANA

FIGURE 3
GEOLOGIC CROSS SECTION A-A'

Job No. 30351-022-121

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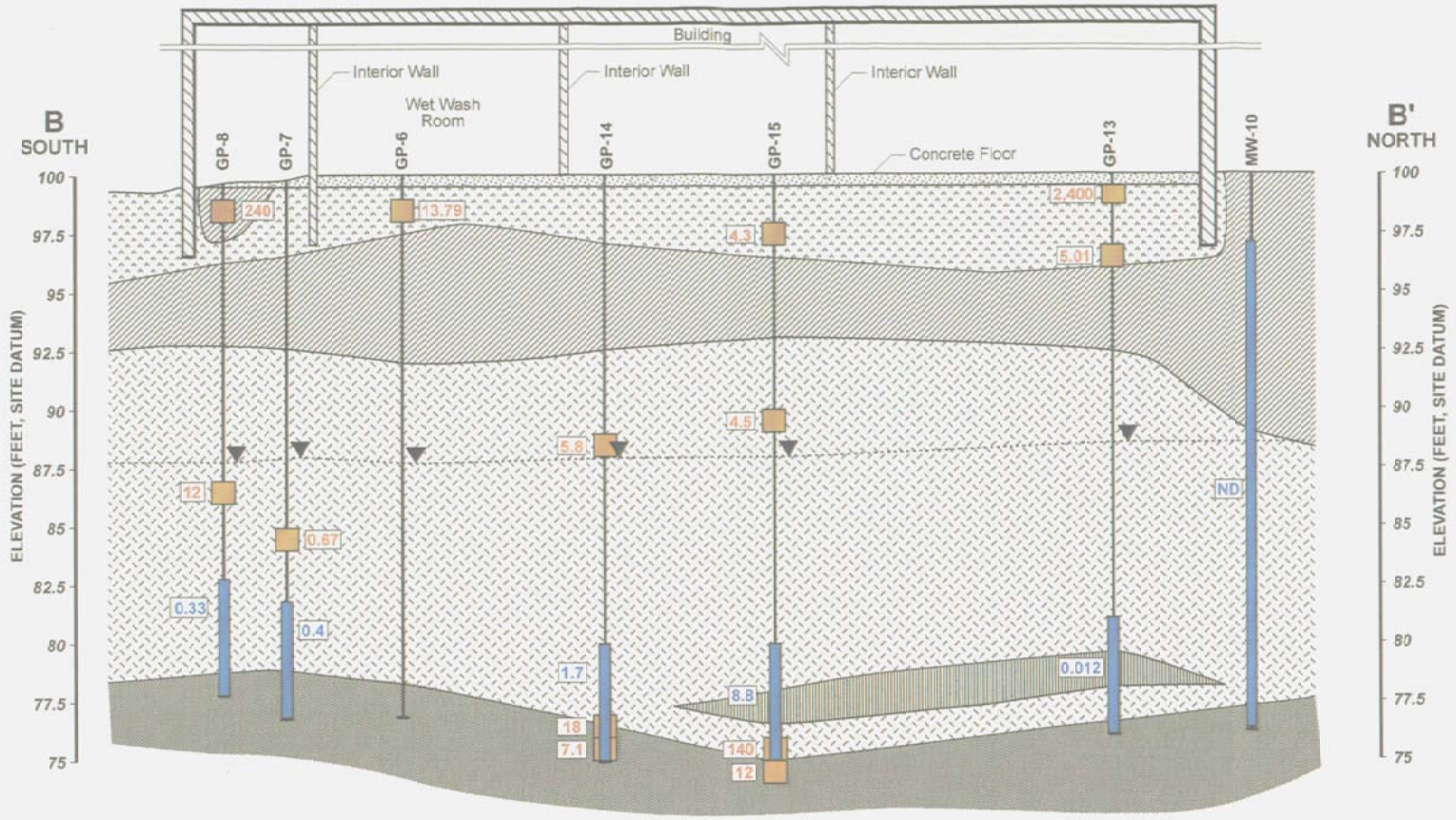
TUCHMAN CLEANERS – 30351-022-5405-121 INDIANAPOLIS, INDIANA STAGE 1 REPORTING



LEGEND:

- Silty Fine to Coarse Sand, Loose, Dry to Moist
- Sandy Clay with Silt and Gravel, Medium Stiff, Moist
- Silty Very Fine to Coarse Sand and Gravel, Loose, Dry to Wet
- Sandy CLAY with Silt and Gravel, Very Stiff to Hard, Dry
- Silty Fine to Medium Sand, Loose, Wet
- Piezometric Surface
- GP-6 Boring or Monitoring Well Location and Number
- Soil Sample Interval
- Water Sample Interval
- 12 Total Soil VOC Concentration (mg/kg)
- 0.012 Total Water VOC Concentration (mg/L)
- ND Not Detected

NOTES:
- The depth and thickness of the strata indicated on the subsurface section were obtained by interpolating between test borings. Information on actual conditions exists only at the locations of the test borings and it is possible that the conditions may vary from those indicated.
- For location of cross section, see Figure 2.

5
0
0
15
SCALE IN FEET
VERTICAL EXAGGERATION = 3x

TUCHMAN CLEANERS
4401 NORTH KEYSTONE AVENUE
INDIANAPOLIS, INDIANA

FIGURE 4
GEOLOGIC CROSS SECTION B-B'

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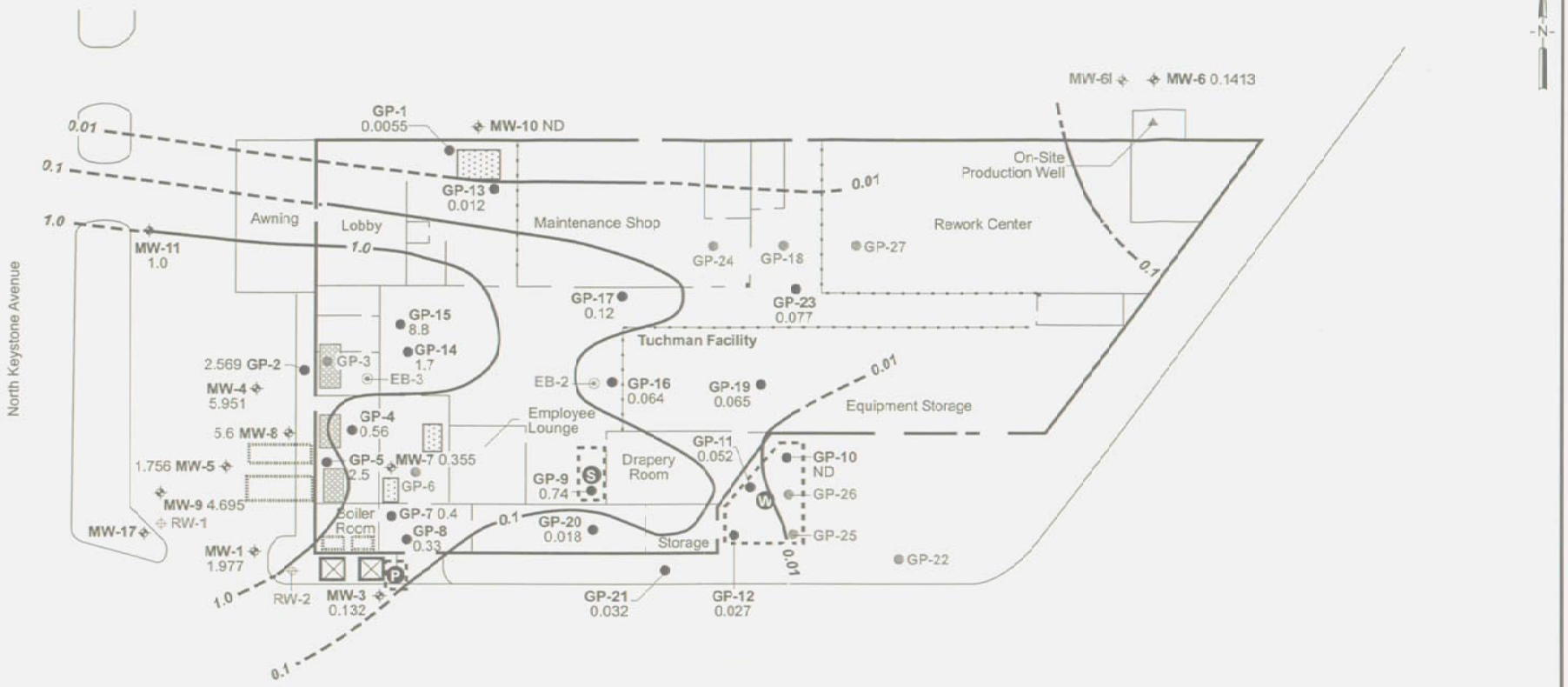


LEGEND:

- Fence
- Equipment Storage Building
- Monitoring Well Location (Sampled June 25, 2002)
- Recovery Well Location
- On-Site Production Well
- Soil Boring Location
- Approximate Current Drycleaning Machine Location
- Approximate Former Drycleaning Machine Location
- Reported Former Stoddard Solvent, Gasoline or Diesel Underground Storage Tank (Approximate Location)
- W — Historical Waste Storage
- S — Suede & Leather Cleaning
- P — Historic PCE Spill
- GP-1 — Geoprobe Boring Location (URS, Sampled Between July 24 -August 2, 2002)
- GP-18 — Geoprobe Boring Location (Not Sampled)
- ND — Not Detected
- 0.132 — VOC Concentration (mg/L)
- 0.1 — VOC Concentration Contour (mg/L)

0 30 60
APPROXIMATE SCALE IN FEET

NOTES:
- All boring and monitoring well locations are approximate.

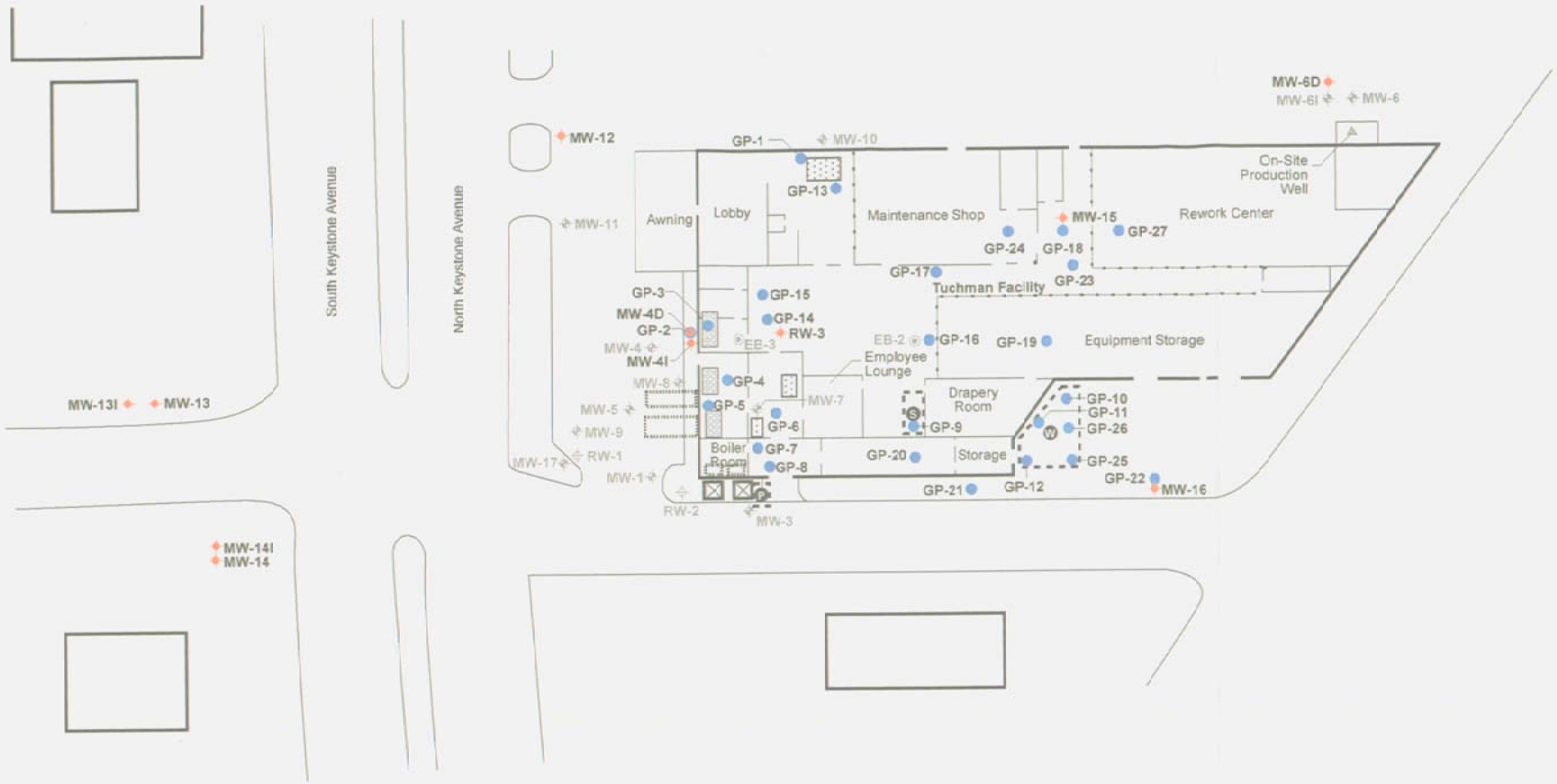
BASE MAP SOURCE: Modified from Sanborn Fire Insurance Rate Map, Sheet 550A, 1967; and Gray Management Consulting, Dayton, Tennessee, Uniform Rental and Dust Control, June 13, 1984.

TUCHMAN CLEANERS
4401 NORTH KEYSTONE AVENUE
INDIANAPOLIS, INDIANA

FIGURE 5
VOC PLUME CONCENTRATION
SHALLOW GROUNDWATER ZONE
JUNE-AUGUST 2002

Job No. 30351-022-121 URS

TUCHMAN CLEANERS – 30351-022-5405-121 INDIANAPOLIS, INDIANA STAGE 1 REPORTING



LEGEND:

- Fence
- Equipment Storage Building
- Monitoring Well Location
- Recovery Well Location
- On-Site Production Well
- Soil Boring Location
- Approximate Current Drycleaning Machine Location
- Approximate Former Drycleaning Machine Location
- Reported Former Stoddard Solvent, Gasoline or Diesel Underground Storage Tank (Approximate Location)
- W — Historical Waste Storage
- S — Suede & Leather Cleaning
- P — Historic PCE Spill
- GP-1 — Geoprobe Boring Location (URS, July-August 2002)
- MW-13 — Planned Shallow Monitoring Well Location
- MW-13I — Planned Intermediate Monitoring Well Location
- MW-6D — Planned Deep Monitoring Well Location
- RW-3 — Planned Recovery Well Location

NOTES:
- All planned boring and monitoring well locations are approximate and subject to change pending availability/access and or observed field conditions.
- Planned monitoring well locations may be moved pending analytical results of the soil and groundwater samples collected for geoprobe borings.

BASE MAP SOURCE: Modified from Sanborn Fire Insurance Rate Map, Sheet 550A, 1967; and Gray Management Consulting, Dayton, Tennessee, Uniform Rental and Dust Control, June 13, 1984.

0 40 80
APPROXIMATE SCALE IN FEET

TUCHMAN CLEANERS
4401 NORTH KEYSTONE AVENUE
INDIANAPOLIS, INDIANA

FIGURE 6
PLANNED STAGE II MONITORING WELL LOCATIONS

Job No. 30351-022-121 URS

TUCHMAN CLEANERS – 30351-022-5405-121 INDIANAPOLIS, INDIANA STAGE 1 REPORTING

APPENDIX A

BORING LOGS

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS	TEMPORARY WELL CONSTRUCTION DETAIL
0			NR	NR	NR		Concrete	
			N	11.0	230		Brown silty very fine to coarse SAND and GRAVEL, loose moist	
	1.81	41	N	4.0	32.7		Brown to dark brown silty CLAY with sand and gravel, medium stiff, moist	
			N	5.4	49.2		grades without sand and gravel	
			N	2.2	39.3		grades with sand	
5			NR	NR	NR			
		13	NR	NR	NR		granite cobble	
			NR	NR	3.0			
			N	3.6	5.0		Brown silty very fine to coarse SAND and GRAVEL, loose, dry to moist	
10		24	NR	NR	NR			1" OD Schedule 40 PVC Riser
			NR	NR	NR			
	3.9		N	2.7	8.2			
			N	2.8	8.9			
		24	NR	NR	NR		grades wet	
15			NR	NR	NR			
			N	3.1	0.0			
			N	3.9	0.2			
		30	NR	NR	NR			
			NR	NR	NR			19FT
20			N	4.5	0.0			
			N	4.5	0.2		grades finer	1" OD Schedule 40 PVC 0.010 Slotted Screen
		29	NR	NR	NR			
			N	NR	NR			
			N	3.0	0.2		Brown to gray silty CLAY with sand, very stiff, dry (TILL)	24FT
			N	3.8	0.1			

Boring terminated at 24.0ft. on 7/29/02
Water level in GP-1 was measured at 11.81ft. below ground surface on 7/30/02
Water sample collected from 1 inch temporary well installed to 24.0ft. with 5 ft. screen on 7/29/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

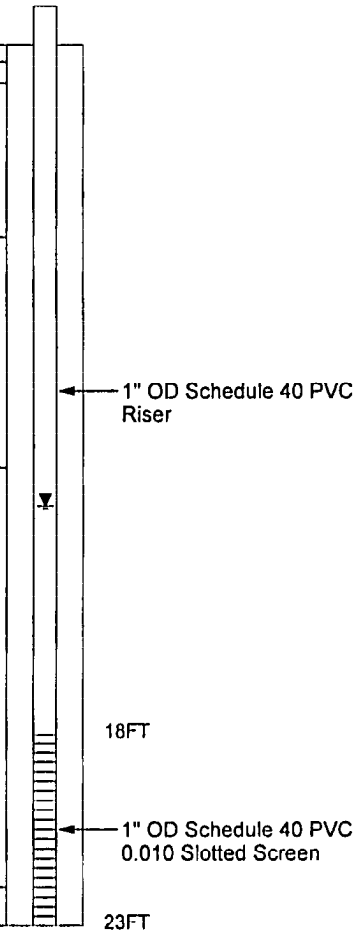
4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-1

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		Mulch
							Brown sandy organic CLAY soft moist
			N	NR	NR		Grayish brown silty medium to coarse SAND and GRAVEL, loose, dry
		24	N	NR	0.0		
			NR	NR	0.0		
			NR	NR	NR		grades brown
5							grades moist
			NR	NR	NR		Dark brown sandy CLAY with silt and a trace of gravel, medium stiff, moist
		32	N	2.7	0.0		
			N	0.0	0.0		
			N	0.0	0.0		
			NR	NR	NR		
10		8	NR	NR	NR		
			NR	NR	NR		Brown silty SAND and GRAVEL, very fine to coarse, loose, dry
			N	1.9	0.0		grades wet
			NR	NR	NR		
		22	NR	NR	NR		
15	25		N	6.5	0.0		
			N	36.2	23.2		
			NR	NR	NR		
		36	N	0.9	0.0		grades coarser
							grades finer
			N	1.0	2.7		
20			N	1.7	0.0		
		36	N	11.7	5.0		
			N	8.9	5.0		Brown to gray sandy CLAY with sand and gravel, very stiff to hard, dry (TILL)
			N	7.3	0.6		

TEMPORARY WELL CONSTRUCTION DETAIL



Boring terminated at 23.0ft. on 8/1/02
Water level in GP-2 was measured at 12ft. below ground surface on 8/1/02
Water sample collected from 1 inch temporary well installed to 23.0ft. with 5 ft. screen on 8/1/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-2

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		Concrete
			N	5.9	11.4		Brown fine to medium SAND with concrete fragments, loose, dry
		48	N	3.7	4.9		
			N	5.6	4.5		Brown silty CLAY with sand and gravel, medium stiff, moist
			N	5.1	2.7		
5			N	4.2	2.8		
	0.062	48	N	3.5	1.8		
			N	3.5	1.6		Brown silty very fine to coarse SAND and GRAVEL, loose, dry
			N	4.3	1.6		

Boring terminated at 8.0ft. on 8/2/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core Hand Auger Sample

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence

PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING
GP-3

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG1 TUCHMA~1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		Concrete
			NR	NR	7.6		Brown silty very fine to coarse SAND, loose, dry
		32	N	6.4	6.2		
			NR	NR	6.4		Dark brown silty sandy CLAY with coarse gravel
			N	15.4	6.8		
5			NR	NR	NR		grades dark brown to black
		6	NR	NR	NR		grades with stodard solvent odor
	15.2		NR	NR	NR		
			N	3.6	448		Brown silty very fine to coarse SAND and GRAVEL, loose, dry to moist
			NR	NR	246		
10		29	N	40.3	142		
			N	37.3	350		
			N	93.6	363		NO RECOVERY, SEE BORING LOG GP-4B
			NR	NR	NR		
		0	NR	NR	NR		
15			NR	NR	NR		
			NR	NR	NR		
			NR	NR	NR		
		0	NR	NR	NR		
			NR	NR	NR		
20			NR	NR	NR		
		0	NR	NR	NR		
			NR	NR	NR		

TEMPORARY WELL CONSTRUCTION DETAIL

Boring terminated at 22.5ft. on 7/25/02
Water level in GP-4A was measured at 11.75ft. below ground surface on 7/25/02
Water sample collected from 1 inch temporary well installed to 22.5ft. with 5 ft. screen on 7/25/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-4A

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		Concrete
			N	NR	NR		Brown silty very fine to coarse SAND, loose, dry
		27	N	12	52.8		
			NR	32	168		Dark brown sandy CLAY with silt and coarse gravel, medium stiff, moist
			NR	760	1120		
5			NR	1600	1770		
		39	N	988.8	1075		
			N	340	880		Brown silty very fine to coarse SAND and GRAVEL, loose, moist
			N	197	1020		
			NR	796	627		
10		34	NR	56.9	478		
			N	146	990		grades wet
			N	137	1472		
			NR	648	658		grades with more silt
		24	W	957	1684		grades dark gray
15	4.61		W	1279	2272		
			W	866	1454		Brown silty fine to medium SAND, loose, wet
			NR	31.8	10.1		Brown medium GRAVEL, loose, wet
		36	NR	NR	NR		grades coarse gravel
			N	29.9	4.6		
20			N	NR	NR		
		12	NR	NR	NR		
			N	0.0	0.2		

Boring terminated at 22.5ft. on 7/25/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence

PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING GP-4B

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG1 TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS	TEMPORARY WELL CONSTRUCTION DETAIL
0			NR	NR	NR		Concrete	
	13.79		NR	NR	NR		Brown silty very fine to coarse SAND , loose, dry	
		27	N	1.8	31.9		Gray GRAVEL with broken concrete (FILL)	
			N	1.6	526		Dark brown very fine sandy CLAY with silt, stiff, moist	
			N	3.5	10.7		grades brown	
5			N	12.2	7.0			
		36	N	3.0	3.1		grades with medium to fine gravel	
			N	4.0	5.0		grades brown to lighter brown	
			N	3.6	16.3		Brown silty fine to medium SAND, loose, moist	
			N	4.8	9.6		grades with coarse and trace of fine gravel	1" OD Schedule 40 PVC Riser
10		30	N	4.0	11.6			
			N	1.2	7.2		grades with trace of coarse gravel	
			N	1.2	2.6		grades wet	
			N	8.5	0.0		grades without gravel	
		37	N	7.1	0.0			
15			N	20.2	1.3			
			N	5.5	0.3		grades with fine to medium gravel	
			N	3.4	0.1			
		29	N	6.6	0.2			18FT
			N	4.4	0.1			
20			N	6.0	0.2			1" OD Schedule 40 PVC 0.010 Slotted Screen
		34	N	38.9	0.0			
			N	57.2	0.1		Gray sandy CLAY with silt and trace of fine gravel, very stiff, moist to dry (TILL), 0.5 inch fine sand seam @ 22.5 FT	
			N	2.6	0.3			23FT

Boring terminated at 23.0ft. on 7/24/02
Water sample collected from 1 inch temporary well installed to 23.0ft. with 5 ft. screen on 7/24/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence

PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

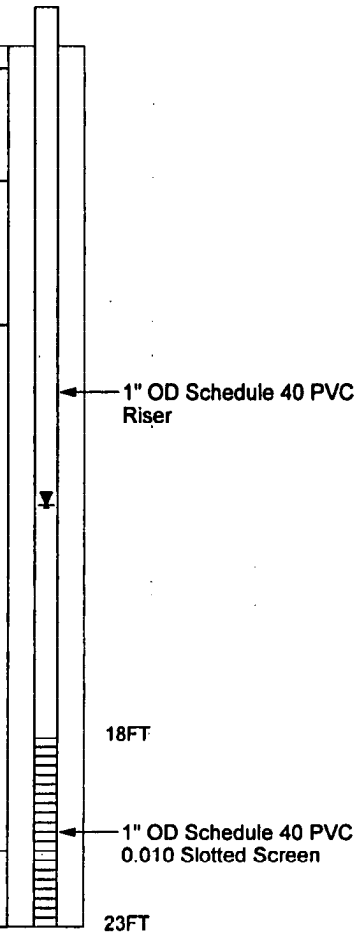
4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-6

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		Concrete
			NR	NR	12		Brown very fine to coarse SAND, loose, moist
		27	N	11.2	15		grades with fine to coarse gravel
			N	13.8	2.8		
			N	4.6	7.3		Dark brown silty CLAY with sand and gravel, medium stiff, moist
5			N	13.0	1.2		
		36	N	11.1	3.2		
			N	12.0	2.8		Brown silty very fine to coarse SAND and GRAVEL, dense, moist
			N	10.0	1.2		
			N	10.1	8.9		
10		30	N	15.5	14.1		grades brown to black
			N	21.6	22.5		
			N	16.3	38.2		
			NR	13.0	NR		
		37	NR	NR	NR		
15	0.67		NR	NR	NR		grades wet
			NR	NR	930		
			NR	NR	NR		
		29	N	23.7	5.1		grades with more gravel
			N	19.6	.8		
20			NR	NR	NR		
		34	NR	NR	5.1		Gray sandy CLAY with silt and gravel, hard, dry (TILL)
			N	21.7	2.1		
			N	1.2	1.2		

TEMPORARY WELL CONSTRUCTION DETAIL



Boring terminated at 23.0ft. on 7/25/0223
Water level in GP-7 was measured at 11.94ft. below ground surface on 7/25/02
Water sample collected from 1 inch temporary well installed to 23.0ft. with 5 ft. screen on 7/25/0223
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-7

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS	TEMPORARY WELL CONSTRUCTION DETAIL
0			NR	NR	NR		Concrete	
	240	36	NR	NR	NR		Brown fine to coarse sandy CLAY with silt and gravel, moist (FILL)	
			N	85.8	799			
			N	43.4	167		Brown to dark brown silty fine to coarse SAND and GRAVEL, loose, moist	
			N	34.7	22.2		Brown very fine to coarse sandy CLAY with silt and gravel, moist	
5		36	NR	NR	NR			
			N	12.7	4.6			
			N	16.8	10.8		Brown silty fine to coarse SAND and GRAVEL, dense, moist	
			N	14.0	20.2		grades with less gravel	1" OD Schedule 40 PVC Riser
		36	NR	NR	NR			
10			N	2.8	11.5			
			N	26.2	20.4		grades black	
			N	11.8	42.6		grades wet	
	12	36	NR	NR	NR			
			SW	133	213			
15			N	18	51.7		grades with more gravel	
			N	13.8	23			17FT
		26	NR	NR	NR			
			N	12.7	1.3			
			N	7.2	1.6			1" OD Schedule 40 PVC 0.010 Slotted Screen
20		24	NR	NR	NR			
			N	19.4	23		Gray sandy CLAY with silt and trace of gravel, very stiff, dry (TILL)	22FT
			N	1.3	0.0			

Boring terminated at 22.0ft. on 7/26/02
Water level in GP-8 was measured at 11.42ft. below ground surface on 7/26/02
Water sample collected from 1 inch temporary well installed to 22.0ft. with 5 ft. screen on 7/26/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
▼ Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-8

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Headspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS	TEMPORARY WELL CONSTRUCTION DETAIL
0			NR	NR	NR		Concrete	
			NR	NR	NR		Brown silty fine to coarse SAND with gravel loose, dry	
	9.2	36	N	10.3	10.9			
			N	474	21.3		Brown sandy CLAY with silt and gravel, medium stiff, moist	
			N	293	8.9		grades dry	
5			N	691	NR			
		36	N	255	2.1			
			N	640	1.3			
			N	1000	2.8			
			N	254	NR		Brown silty fine to coarse SAND and GRAVEL, loose, dry	
10		36	N	647	14.3			1" OD Schedule 40 PVC Riser
			N	184	12.2			
			N	488	12.1		grades wet	
							NO RECOVERY, SEE BORING LOG GP-9B	
			NR	NR	NR			
		0	NR	NR	NR			
15			NR	NR	NR			
			NR	NR	NR			
			NR	NR	NR			
		0	NR	NR	NR			
			NR	NR	NR			
20			NR	NR	NR			
			NR	NR	NR			21FT
		0	NR	NR	NR			
			NR	NR	NR			
			NR	NR	NR			1" OD Schedule 40 PVC 0.010 Slotted Screen
			NR	NR	NR			
25		0	NR	NR	NR			
			NR	NR	NR			26FT

Boring terminated at 26.0ft. on 7/29/02
Water level in GP-9A was measured at 11.8ft. below ground surface on 7/29/02
Water sample collected from 1 inch temporary well installed to 26.0ft. with 5 ft. screen on 7/29/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-9A

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS	TEMPORARY WELL CONSTRUCTION DETAIL
0			NR	-	-		NO SAMPLE COLLECTED DETAILED ON BORING LOG GP-9A	
			NR	-	-			
		-	NR	-	-			
			NR	-	-			
			NR	-	-			
5			NR	-	-			
		-	NR	-	-			
			NR	-	-			
			NR	-	-			
			NR	-	-			1" OD Schedule 40 PVC Riser
10		-	NR	-	-			
			NR	-	-			
			NR	-	-			
			NR	NR	NR		Brown silty very fine to coarse SAND and GRAVEL, loose, wet	
			NR	NR	NR			
		36	N	19.4	0.0			
15			N	23.6	0.2			
			N	20.1	0.0		grades with less coarse sand and gravel	
			N	18.8	0.0		grades with more coarse sand and gravel	
		40	N	18.9	0.2			18FT
			N	14.4	0.2		grades with less coarse sand and gravel	
20			N	22.2	2.1			1" OD Schedule 40 PVC 0.010 Slotted Screen
		34	N	13.8	0.2		grades with more coarse sand and gravel	
			N	18.8	0.2			
			N	19.0	1.6		Gray sandy CLAY with silt, stiff, dry (TILL)	23FT

Boring terminated at 23.0ft. on 7/29/02
Water sample collected from 1 inch temporary well installed to 23.0ft. with 5 ft. screen on 7/29/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence

PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

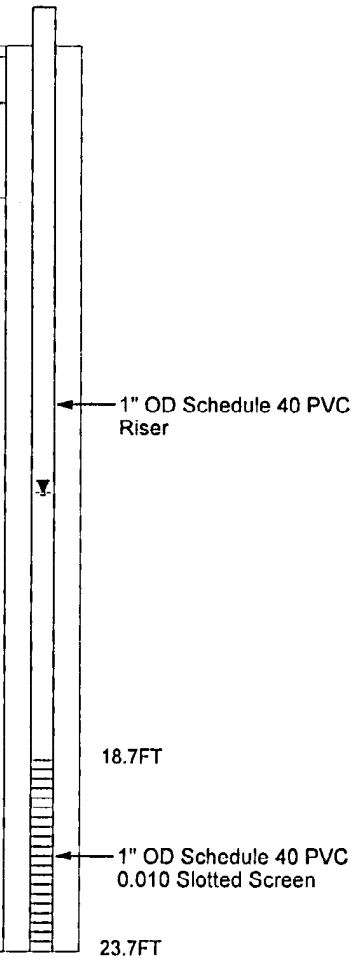
4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-9B

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		Asphalt
			NR	NR	NR		Brown silty very fine to coarse SAND and GRAVEL, loose, moist
	19.61	26	NR	NR	NR		Brown to dark brown sandy CLAY with silt and gravel, medium stiff, moist
			NR	6.5	3.2		
			NR	9.8	1.4		NO RECOVERY,SEE BORING LOG GP-10B
5		0	NR	NR	NR		
			NR	NR	NR		
			NR	NR	NR		
			NR	NR	NR		
10		0	NR	NR	NR		
			NR	NR	NR		
			NR	NR	NR		
			NR	NR	NR		
15		0	NR	NR	NR		
			NR	NR	NR		
			NR	NR	NR		
			NR	NR	NR		
20		0	NR	NR	NR		
			NR	NR	NR		
			NR	NR	NR		
			NR	NR	NR		

TEMPORARY WELL CONSTRUCTION DETAIL



Boring terminated at 23.7ft. on 8/1/02
Water level in GP-10A was measured at 11.65ft. below ground surface on 8/1/02
Water sample collected from 1 inch temporary well installed to 23.7ft. with 5 ft. screen on 8/1/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-10A

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		NO SAMPLE COLLECTED DETAILED ON BORING LOG GP-10A
			NR	NR	NR		
		38	N	18.2	66.8		
			N	9.9	22.3		
			N	0.4	1.8		Brown to dark brown sandy CLAY with silt and gravel, medium stiff, moist
5			NR	NR	NR		
		36	N	0.0	0.3		Brown silty very fine to coarse SAND and GRAVEL, loose, dry to moist
			N	0.0	0.1		
			N	0.0	0.2		
			NR	NR	NR		
10		39	N	0.0	0.0		
			N	0.0	0.0		grades wet
			N	0.0	0.0		
			NR	NR	NR		
		36	N	0.0	0.0		
15			N	0.0	0.0		
			N	0.0	0.0		
			NR	NR	NR		
		36	N	0.0	0.0		
			NR	NR	0.0		
20			N	0.2	0.0		
			N	0.1	0.0		grades with more coarse sand
		48	N	0.0	0.0		grades with less coarse sand
			N	0.7	0.0		
		12	N	0.0	0.0		Gray sandy CLAY with gavel, hard, dry (TILL)
25			NR	NR	0.0		

Boring terminated at 25.0ft. on 8/1/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence

PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING
GP-10B

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG1 TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS	TEMPORARY WELL CONSTRUCTION DETAIL
0			NR	NR	NR		Asphalt	
			NR	NR	NR		Dark brown sandy CLAY with silt and very fine to coarse gravel, medium stiff, moist	
		36	N	0.0	0.0		grades with cinders	
			N	0.0	0.0		grades without cinders	
			N	0.0	0.0			
5			N	0.0	0.0			
		40	N	0.0	0.0		Brown silty very fine to coarse SAND and GRAVEL, loose, dry	
			N	0.5	0.0			
			NR	NR	NR			
			NR	NR	NR			1" OD Schedule 40 PVC Riser
10		30	N	1.5	2.9			
	1.4		N	1.4	1.6		grades wet	
			N	0.6	5.3			
			NR	NR	NR			
		0	NR	NR	NR			
15			NR	NR	NR			
			NR	NR	NR			
			NR	NR	NR			
		26	NR	NR	NR		grades with more coarse sand and gravel	19FT
			N	0.0	0.0			
20			N	0.0	0.0			
			N	0.1	0.0		grades less coarse sand and gravel	1" OD Schedule 40 PVC 0.010 Slotted Screen
		40	N	0.4	0.0			
			N	0.4	0.0		Gray sandy CLAY with silt and trace gravel, very stiff, dry (TILL)	
			N	0.0	0.0			24FT

Boring terminated at 24.0ft. on 7/31/02
Water level in GP-11 was measured at 11.4ft. below ground surface on 7/31/02
Water sample collected from 1 inch temporary well installed to 24.0ft. with 5 ft. screen on 7/31/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-11

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS	TEMPORARY WELL CONSTRUCTION DETAIL
0			NR	NR	NR		Asphalt	
			NR	NR	NR		Brown silty very fine to coarse SAND and GRAVEL, loose, moist	
	2.8	36	N	>2000	>2000		Brown sandy CLAY with silt and gravel, medium stiff, moist	
			N	>2000	>2000			
5			N	>2000	1300			
			NR	NR	NR			
	0.42	36	NR	NR	1953			
			N	>2000	>2000		Brown silty very fine to coarse SAND and GRAVEL, loose, dry	
			N	10.6	805			
			NR	NR	NR			1" OD Schedule 40 PVC Riser
10		38	N	>2000	173			
			N	18.5	1113		grades wet	
			N	660	442			
			NR	NR	NR			
		36	N	>2000	1.2			
15			N	12.1	1.2			
			N	6.3	1.2			
			NR	NR	NR			
		36	N	11.4	0.0			
			N	8.0	0.0			19FT
20			N	9.6	0.0			
			N	10.4	0.0			1" OD Schedule 40 PVC 0.010 Slotted Screen
		48	N	6.4	0.0			
			N	8.2	0.0		Gray sandy CLAY with silt and trace of medium gravel, hard, dry (TILL)	
	ND		N	11.5	0.0			24FT

Boring terminated at 24.0ft. on 8/1/02
Water level in GP-12 was measured at 11.05ft. below ground surface on 8/1/02
Water sample collected from 1 inch temporary well installed to 24.0ft. with 5 ft. screen on 8/1/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-12

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave. - Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0	2400	12	NR	NR	NR		Concrete
			N	236	>9999		Brown to black fine to coarse SAND and GRAVEL with conrete fragments at 1 ft., loose moist, strong odor noted
		18	NR	NR	NR		grades brown to dark brown with silt, loose, moist
	5.01		N	212	5160		
			N	8.2	890		Brown sandy CLAY with silt, medium stiff, moist, without odor
5			NR	128	8.5		
		40	NR	2.1	12.2		
			N	4.0	3.9		
			N	1.9	29.3		Brown silty very fine to coarse SAND and GRAVEL, loose, dry to moist
			NR	NR	34.2		
10		27	N	3.0	36.3		
			N	2.3	32.8		
			N	3.2	9.6		grades wet
			NR	4.0	1.1		
		18	N	3.6	1.1		
15			NR	NR	NR		
			NR	NR	NR		
			NR	NR	NR		
		0	NR	NR	NR		
			NR	NR	NR		
20			NR	NR	NR		
			NR	NR	0.8		Brown silty fine SAND, loose, wet
		12	NR	NR	1.2		grades with gravel
			NR	NR	NR		Gray sandy CLAY with silt and gravel, very stiff, dry (TILL)

TEMPORARY WELL CONSTRUCTION DETAIL

Boring terminated at 24.0ft. on 7/25/02
Water level in GP-13 was measured at 11.56ft. below ground surface on 7/26/02
Water sample collected from 1 inch temporary well installed to 24.0ft. with 5 ft. screen on 7/25/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-13

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS	TEMPORARY WELL CONSTRUCTION DETAIL
0			NR	NR	NR		Concrete	
			NR	NR	NR		Brown silty very fine to coarse SAND with fine gravel, loose, moist to dry	
		27	N	10.6	8.5			
			N	12.7	9.7		Dark brown sandy CLAY with silt, medium stiff, moist	
			N	12.1	4.7		grades with fine to coarse gravel	
5			N	19.4	9.6			
		38	N	7.5	9.1			
			N	17.6	14.0			
			N	8.9	19.3		Brown silty fine to coarse SAND and GRAVEL, loose, dry to moist	
			NR	NR	21.3			
10		36	N	12.3	42			1" OD Schedule 40 PVC Riser
	5.8		N	10.4	32.3			
			N	23	43.2		grades wet	
			NR	NR	NR			
		32	N	13.1	4.1			
15			N	8.8	0.0			
			N	12.3	0.0			
			N	11.0	0.0		grades wiht more coarse sand and gravel	
		40	N	9.3	0.0		gradesless coarse sand and gravel	
			N	12.6	0.0			
20			N	8.9	0.0			20FT
			N	14.4	0.0			
		36	N	16.6	1.0			1" OD Schedule 40 PVC 0.010 Slotted Screen
	18		N	24	5.6			
	7.1	4	N	48	360		Gray sandy CLAY with silt, very stiff, moist (TILL) grades dry	
25			NR	NR	1.2			25FT

Boring terminated at 25.0ft. on 7/29/02
Water level in GP-14 was measured at 11.9ft. below ground surface on 7/29/02
Water sample collected from 1 inch temporary well installed to 25.0ft. with 5 ft. screen on 7/29/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-14

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		Concrete
			NR	NR	NR		Brown silty fine to coarse SAND with fine gravel, loose, moist to dry
	4.3	36	N	12.0	18.3		
			N	15.9	30.2		
			N	10.0	5.9		Dark brown sandy CLAY with silt, medium stiff, moist
5			N	16.8	5.0		
		40	N	14.8	8.0		
			N	15.8	23.0		Brown silty fine to coarse SAND and GRAVEL, loose, dry to moist
			N	18.8	13.0		
			NR	NR	NR		
10	4.5	36	N	13.2	11.12		
			N	17.8	30.8		grades wet
			N	24.7	14.2		
			NR	NR	NR		
		36	N	15.5	0.0		grades with more coarse sand and gravel
15			N	14.3	0.0		
			N	11.1	0.0		
			N	19.1	0.0		
		40	N	14.3	0.0		
			N	7.0	0.0		
20			N	13.1	0.0		
			N	6.8	0.0		
		48	N	12.4	0.0		grades with more silt and less coarse sand and gravel
			N	19.7	0.0		grades with more coarse sand and gravel
			N	9.8	0.0		
25	140	18	N	250	260		Gray sandy CLAY with silt, very stiff, dry (TILL)
	12		N	16.2	5.0		

TEMPORARY WELL CONSTRUCTION DETAIL

Boring terminated at 25.5ft. on 7/29/02
Water level in GP-15 was measured at 12ft. below ground surface on 7/29/02
Water sample collected from 1 inch temporary well installed to 25.5ft. with 5 ft. screen on 7/29/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-15

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		Concrete
			NR	NR	NR		Brown silty very fine to coarse SAND with trace of gravel, loose, dry
	1.2	27	N	NR	NR		
			N	9.1	8.3		Brown sandy CLAY with silt and gravel, medium stiff, moist
			N	3.4	1.9		
5			NR	NR	NR		
		36	N	0.8	0.5		grades with more coarse gravel
			N	0.0	1.4		
			N	1.2	5.2		Brown silty very fine to coarse SAND and GRAVEL, loose, dry
10			NR	NR	NR		
		39	N	5.9	7.2		
			N	3.5	9.2		grades moist
			N	3.8	11.3		grades wet
			NR	NR	NR		
		37	N	1.2	0.0		
15			N	3.4	0.2		
			N	1.6	0.0		
			N	2.0	0.0		
		45	N	3.2	0.0		
	2		N	2.4	0.0		
20			N	3.9	0.2		
			NR	NR	NR		
		16	N	0.1	0.0		
			N	0.0	0.0		Encountered very hard material @ 23.5 ft (TILL)
		0	NR	NR	NR		Refusal no sample recovered.

TEMPORARY WELL CONSTRUCTION DETAIL

Boring terminated at 24.5ft. on 7/30/02
Water level in GP-16 was measured at 11.71ft. below ground surface on 7/30/02
Water sample collected from 1 inch temporary well installed to 24.5ft. with 5 ft. screen on 7/30/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-16

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS	TEMPORARY WELL CONSTRUCTION DETAIL
0			NR	NR	NR		Concrete	
			NR	NR	NR		Brown silty fine SAND and GRAVEL, loose, moist to dry	
		30	NR	NR	1.8			
	2.5		N	1.8	1.7		Dark brown sandy CLAY with silt and trace gravel, medium stiff, moist	
			N	6.8	6.2			
5			NR	1.6	1.8			
		41	N	3.6	0.4			
			N	3.4	0.3			
			N	4.9	0.5		Brown silty very fine to coarse SAND and GRAVEL, loose, dry to moist	
			NR	NR	NR			1" OD Schedule 40 PVC Riser
10		39	N	6.3	2.5			
	7.2		N	7.5	4.0		grades moist	
			N	6.3	6.4			
			NR	NR	NR		grades wet	
		30	N	NR	NR			
15			N	7.6	0.0		grades with more coarse sand and gravel	
			N	6.4	0.0			
			N	NR	NR			
		25	N	NR	NR			
			N	4.7	0.0			19FT
20			N	5.4	0.0			
			NR	NR	NR			1" OD Schedule 40 PVC 0.010 Slotted Screen
		39	N	0.0	0.0			
			N	0.0	0.0			
			NR	NR	0.0		Gray sandy CLAY with silt and trace gravel, very stiff, dry (TILL)	24FT

Boring terminated at 24.0ft. on 7/30/02
Water level in GP-17 was measured at 12.12ft. below ground surface on 7/30/02
Water sample collected from 1 inch temporary well installed to 24.0ft. with 5 ft. screen on 7/30/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-17

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS	TEMPORARY WELL CONSTRUCTION DETAIL
0			NR	NR	NR		Concrete	
	10	38	NR	NR	NR		Brown silty fine to coarse SAND and GRAVEL, loose, moist	
			N	>2000	>2000		Brown very fine to coarse sandy CLAY with silt and gravel, stiff, moist	
			N	>2000	>2000			
			N	628	647			
5		40	N	2.2	0.8			
			N	0.0	0.3			
			N	1.3	0.3			
			N	1.7	0.6		Brown silty very fine to coarse SAND and GRAVEL, loose, dry	
			N	7.8	10.5			1" OD Schedule 40 PVC Riser
10		39	N	6.7	4.5			
			N	5.7	5.9		grades moist	
			N	4.4	2.2		grades wet	
			N	4.6	0.0			
		46	N	5.4	0.0			
15			N	2.9	0.0			
			N	5.0	0.0			
			N	NR	NR			
		36	N	0.8	0.0			19FT
			N	3.5	0.0			
20			N	3.1	0.0			
			NR	NR	NR			1" OD Schedule 40 PVC 0.010 Slotted Screen
		36	N	0.7	0.0			
			N	3.3	0.0		Gray sandy CLAY with silt and trace coarse gravel, very stiff to hard, dry (TILL)	
	0.01		N	4.3	0.0			24FT

Boring terminated at 24.0ft. on 7/31/02
Water sample collected from 1 inch temporary well installed to 24.0ft. with 5 ft. screen on 7/31/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence

PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-18

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Headspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS	TEMPORARY WELL CONSTRUCTION DETAIL
0			NR	NR	NR		Concrete	
			NR	NR	NR		Brown silty very fine to coarse SAND, loose, dry	
		39	N	0.4	0.8		Dark brown sandy CLAY with brick fragments, medium stiff, moist	
			N	0.0	0.1			
			N	0.0	0.0			
5			NR	0.0	0.0			
		43	N	0.0	0.0			
			N	0.0	0.0			
			N	0.0	5.2		Brown silty very fine to coarse SAND and GRAVEL, loose, dry to moist	
			NR	NR	NR			1" OD Schedule 40 PVC Riser
10		36	N	0.0	0.0			
			N	0.0	0.0		grades wet	
			N	0.0	0.0			
			NR	NR	NR			
		36	N	1.1	0.0			
15			N	0.8	0.0			
			N	1.4	0.0			
			N	NR	NR			
		38	N	0.0	0.0		grades with more gravel	19FT
			N	0.4	0.0			
20			N	0.0	0.0			
			NR	NR	0.0			1" OD Schedule 40 PVC 0.010 Slotted Screen
		48	N	NR	0.0			
			N	NR	0.0		Gray sandy CLAY with silt, dry (TILL)	
			NR	NR	0.0		grades with medium gravel, hard	24FT

Boring terminated at 24.0ft. on 7/30/02
Water level in GP-19 was measured at 11.6ft. below ground surface on 7/30/02
Water sample collected from 1 inch temporary well installed to 24.0ft. with 5 ft. screen on 7/30/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-19

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		Concrete
	30	40	N	1.4	0.0		Brown silty very fine to coarse SAND and GRAVEL, loose, dry
			N	5.3	6.2		Dark brown sandy CLAY with silt, stiff, moist
			N	1.2	0.7		
			N	3.3	2.1		
5		36	NR	NR	NR		
			N	0.0	0.0		
			N	1.2	0.3		Brown very fine to coarse silty SAND and GRAVEL , loose, dry to moist
			N	4.5	1.6		
10		36	NR	NR	NR		
			N	3.4	5.7		
			N	2.2	4.0		grades moist grades wet
			N	6.3	1.7		
		37	NR	NR	NR		
15			N	3.1	0.0		grades with less coarse sand and gravel
			N	3.6	0.0		
			N	1.7	0.0		grades with more coarse sand and gravel
		40	N	2.3	0.0		
			N	1.2	0.0		
20			N	1.2	0.0		
			N	3.3	0.0		
		39	N	1.3	0.0		
			N	1.4	0.0		Gray sandy CLAYsilt and gravel, hard, dry (TILL)
			N	0.5	0.0		

TEMPORARY WELL CONSTRUCTION DETAIL

Boring terminated at 23.5ft. on 7/30/02
Water level in GP-20 was measured at 11.84ft. below ground surface on 7/30/02
Water sample collected from 1 inch temporary well installed to 23.5ft. with 5 ft. screen on 7/30/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

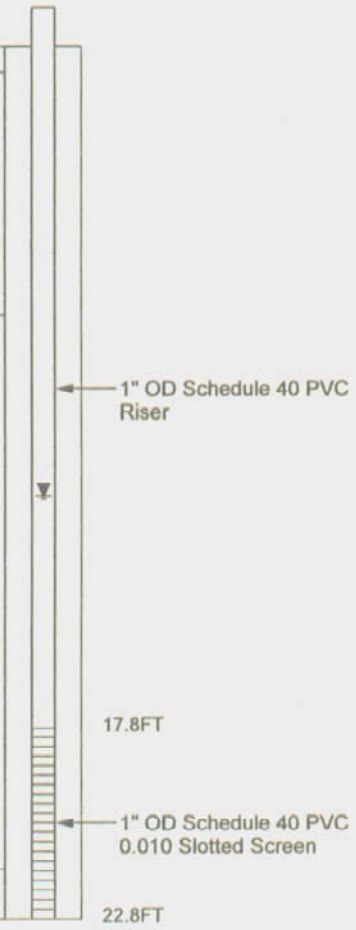
4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-20

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		GRAVEL
			NR	NR	NR		Dark brown sandy CLAY with silt and gravel, medium stiff, moist
		24	NR	NR	NR		
			N	0.0	0.0		
			N	0.0	0.0		
5			NR	NR	NR		
		36	N	2.3	0.0		
	0.2357		N	3.8	0.0		Brown silty very fine to coarse SAND and GRAVEL, loose, dry
			N	4.0	0.0		grades wet
10			NR	NR	NR		
		28	N	0.0	0.0		
			N	2.6	0.0		
			NR	NR	NR		grades with more coarse sand and gravel
			NR	NR	NR		
		38	N	0.0	0.0		grades with less coarse sand and gravel
15			N	3.7	0.0		
			N	2.6	0.0		
			NR	NR	NR		
		36	N	0.0	0.0		
			N	1.8	0.0		
20			N	0.0	0.0		
		34	N	3.1	0.0		grades with more coarse sand and gravel
			N	0.0	0.0		Gray sandy CLAY with silt and gravel, hard, dry (TILL)
			N	0.0	0.0		

TEMPORARY WELL CONSTRUCTION DETAIL



Boring terminated at 22.8ft. on 8/1/02
Water level in GP-21 was measured at 11.7ft. below ground surface on 8/1/02
Water sample collected from 1 inch temporary well installed to 22.8ft. with 5 ft. screen on 8/1/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-21

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS	TEMPORARY WELL CONSTRUCTION DETAIL
0			NR	NR	NR		ASPHALT	
			NR	NR	NR		Brown silty very fine to coarse SAND and GRAVEL, loose, dry	
		36	N	1.9	5.8		grades with black cinders	
			N	2.5	0.0		grades without cinders Dark brown sandy CLAY with silt and gravel, medium stiff, moist	
			N	2.0	0.0			
5			NR	NR	NR			
	0.62	36	N	2.2	0.0		Brown silty very fine to coarse SAND and GRAVEL, loose, dry to moist	
			N	4.0	0.0			
			N	2.0	0.9			
			NR	NR	NR			1" OD Schedule 40 PVC Riser
10		36	N	2.1	0.0		grades to fine sand from 10.5 to 11 ft.	
			N	0.8	0.0			
			N	1.1	0.0		grades wet	
			NR	NR	NR			
		39	N	0.7	0.0			
15			N	0.6	0.0			
			N	1.5	0.0			
			N	1.5	0.0			
		40	N	1.5	0.0			
			N	1.0	0.0			19.3FT
20			N	0.4	0.0			
			NR	NR	NR			
		42	N	1.5	0.0			1" OD Schedule 40 PVC 0.010 Slotted Screen
			N	1.0	0.0		Encountered hard material (TILL) at 24 ft.	
			N	0.5	0.0		Refusal at 24.3 ft. no sample recovered	24.3FT

Boring terminated at 24.3ft. on 7/31/02
Water sample collected from 1 inch temporary well installed to 24.3ft. with 5 ft. screen on 7/31/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence

PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-22A

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			-	-	-		ASPHALT
		NR	-	-	-		NO SAMPLE COLLECTED
5		NR	-	-	-		
10		41	-	-	-		SAMPLE COLLECTED FOR TOC ANALYSIS AND GEOTECHNICAL CHARACTERIZATION
		NR	-	-	-		NO SAMPLE COLLECTED
15		46	-	-	-		SAMPLE COLLECTED FOR TOC ANALYSIS AND GEOTECHNICAL CHARACTERIZATION
20		48	-	-	-		Brown silty very fine to coarse SAND and GRAVEL, loose, dry
			-	-	-		Gray sandy CLAY with silt, very stiff, dry (TILL)
			NR	NR	0.0		

Boring terminated at 24.0ft. on 7/31/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence

PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

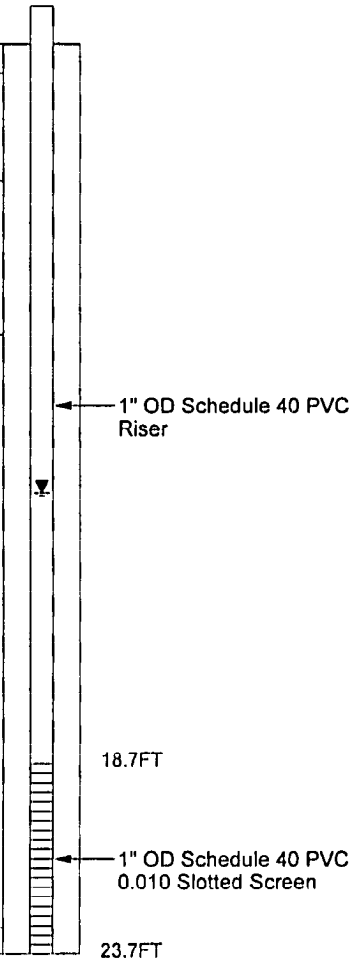
4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING
GP-22B

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG1 TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		Concrete
			NR	NR	NR		Brown medium SAND and GRAVEL, loose, dry to moist
		24	NR	NR	NR		
			N	3.2	0.0		Brown sandy CLAY with gravel and silt, medium stiff, moist
			N	1.3	2.0		
5			NR	NR	NR		
		36	N	4.0	1.9		
			N	3.0	1.3		
			N	3.2	2.0		Brown silty very fine to coarse SAND and GRAVEL, loose, dry to moist
	0.061		NR	NR	NR		
10		36	N	4.3	5.8		
			N	4.6	2.5		grades wet
			N	0.5	2.4		
			NR	NR	NR		
		0	NR	NR	NR		
15			NR	NR	NR		
			NR	NR	NR		
			NR	NR	NR		
		12	NR	NR	NR		
			NR	NR	NR		
20			N	0.0	0.0		
			NR	NR	NR		
		12	N	NR	NR		grades with coarse gravel
			N	1.8	0.1		Gray sandy CLAY with silt, hard, dry (TILL)

TEMPORARY WELL CONSTRUCTION DETAIL



Boring terminated at 23.7ft. on 8/2/02
Water level in GP-23 was measured at 11.66ft. below ground surface on 8/2/02
Water sample collected from 1 inch temporary well installed to 23.7ft. with 5 ft. screen on 8/2/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence
Water Level
PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING AND TEMPORARY MONITORING WELL GP-23

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (Inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		Concrete
	13	38	NR	NR	NR		Brown silty very fine to coarse SAND and GRAVEL, loose, moist
			N	2.4	12.5		Brown to dark brown sandy CLAY with gravel and silt, medium stiff, moist
			N	4.6	15.9		
			N	2.8	2.9		
5		36	NR	NR	NR		
			N	2.4	0.5		
			N	1.3	0.1		Brown silty very fine to coarse SAND and GRAVEL, loose, dry (TILL)
			N	2.3	2.1		

Boring terminated at 8.0ft. on 8/2/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence

PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING
GP-24

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG1 TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (Inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		ASPHALT
	304	36	NR	NR	NR		Brown silty very fine to coarse SAND and GRAVEL, loose, moist
			N	72.8	502		Black to brown sandy CLAY with gravel and silt, medium stiff, moist, odor (stoddard like)
			N	16.9	128		grades brown
			N	3.7	7.9		
5		30	NR	NR	NR		
			NR	NR	NR		
			N	7.1	3.2		Brown silty very fine to coarse SAND and GRAVEL, loose, dry
			N	6.3	10.1		
	6	36	NR	NR	NR		
10			N	5.2	20.2		
			N	6.4	18.6		grades wet
			N	3.7	1.8		

Boring terminated at 12.0ft. on 8/2/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence

PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING
GP-25

TUCHMAN LOG1 TUCHMANKSPHASE1.GPJ 10/31/02 Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		ASPHALT
			NR	NR	NR		Black to brown silty very fine to coarse SAND and GRAVEL, loose moist
	130	39	N	72.8	121		Brown sandy CLAY with silt and gravel, medium stiff, moist
			N	16.9	5.7		
			N	1.3	2.5		

Boring terminated at 4.0ft. on 8/2/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence

PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING
GP-26

Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana
TUCHMAN LOG1 TUCHMANKSPHASE1.GPJ 10/31/02

Depth (Feet)	Sample Interval/ Total VOC (mg/kg)	Recovery (inches)	NAPL Observation	PID Heasdspace, ppm	PID Screening, ppm	USCS Symbol	DESCRIPTION OF SUBSURFACE MATERIALS
0			NR	NR	NR		Concrete
			NR	NR	NR		Brow silty very fine to coarse SAND and GRAVEL, loose, dry to moist
		29	NR	NR	NR		
	ND		N	1.6	0.6		Dark brown sandy CLAY with silt and gravel, medium stiff, moist
			N	2.0	1.0		
5			NR	NR	NR		
		36	N	0.5	0.0		
			N	1.2	0.0		Brown silty very fine to coarse SAND and GRAVEL, loose, dry
			N	0.4	0.0		

Boring terminated at 8.0ft. on 8/2/02
Boring was backfilled with bentonite and finished at surface with concrete
Final NAPL, Headspace, and Screening values represent measurements from the bottom of final core

LEGEND:

Dual Tube Core

N= No visible flourescence W= Whitish flourescence V= Violet flourescence
SV= Slight Violet flourescence SW= Slight Whitish flourescence

PID=Photoionization Detector-Note: Any ">" value indicates a reading greater than the instrument reporting range.
NR=No Sample Recovered
ND=Not Detected

URS

JOB NO. 30351-022-121

Tuchman Cleaners

4401 N. Keystone Ave.- Stage 1 Field Activities
Indianapolis, Indiana

SOIL BORING
GP-27

TUCHMAN LOG1 TUCHMANKSPHASE1.GPJ 10/31/02 Tuchman Cleaners - 30351-022-121 - 4401 N. Keystone Ave.- Stage 1 Field Activities, Indianapolis, Indiana

APPENDIX B

LABORATORY REPORTS

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800 767 5859
Fax (615) 758 5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-4B 15 FT
Collected By : Matt Mitchell
Collection Date : 07/26/02 12:40

ESC Sample # : L84729-01
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	25.	mg/kg	8260B	07/31/02	500
Acrolein	BDL	25.	mg/kg	8260B	07/31/02	500
Acrylonitrile	BDL	25.	mg/kg	8260B	07/31/02	500
Benzene	BDL	0.50	mg/kg	8260B	07/31/02	500
Bromobenzene	BDL	0.50	mg/kg	8260B	07/31/02	500
Bromodichloromethane	BDL	0.50	mg/kg	8260B	07/31/02	500
Bromoform	BDL	0.50	mg/kg	8260B	07/31/02	500
Bromomethane	BDL	0.50	mg/kg	8260B	07/31/02	500
n-Butylbenzene	BDL	0.50	mg/kg	8260B	07/31/02	500
sec-Butylbenzene	4.1	0.50	mg/kg	8260B	07/31/02	500
tert-Butylbenzene	BDL	0.50	mg/kg	8260B	07/31/02	500
Carbon tetrachloride	BDL	0.50	mg/kg	8260B	07/31/02	500
Chlorobenzene	BDL	0.50	mg/kg	8260B	07/31/02	500
Chlorodibromomethane	BDL	0.50	mg/kg	8260B	07/31/02	500
Chloroethane	BDL	0.50	mg/kg	8260B	07/31/02	500
2-Chloroethyl vinyl ether	BDL	25.	mg/kg	8260B	07/31/02	500
Chloroform	BDL	2.5	mg/kg	8260B	07/31/02	500
Chloromethane	BDL	0.50	mg/kg	8260B	07/31/02	500
2-Chlorotoluene	BDL	0.50	mg/kg	8260B	07/31/02	500
4-Chlorotoluene	BDL	0.50	mg/kg	8260B	07/31/02	500
1,2-Dibromo-3-Chloropropane	BDL	1.0	mg/kg	8260B	07/31/02	500
1,2-Dibromoethane	BDL	0.50	mg/kg	8260B	07/31/02	500
Dibromomethane	BDL	0.50	mg/kg	8260B	07/31/02	500
1,2-Dichlorobenzene	BDL	0.50	mg/kg	8260B	07/31/02	500
1,3-Dichlorobenzene	BDL	0.50	mg/kg	8260B	07/31/02	500
1,4-Dichlorobenzene	BDL	0.50	mg/kg	8260B	07/31/02	500
Dichlorodifluoromethane	BDL	0.50	mg/kg	8260B	07/31/02	500
1,1-Dichloroethane	BDL	0.50	mg/kg	8260B	07/31/02	500
1,2-Dichloroethane	BDL	0.50	mg/kg	8260B	07/31/02	500
1,1-Dichloroethene	BDL	0.50	mg/kg	8260B	07/31/02	500
cis-1,2-Dichloroethene	BDL	0.50	mg/kg	8260B	07/31/02	500
trans-1,2-Dichloroethene	BDL	0.50	mg/kg	8260B	07/31/02	500
1,2-Dichloropropane	BDL	0.50	mg/kg	8260B	07/31/02	500
1,1-Dichloropropene	BDL	0.50	mg/kg	8260B	07/31/02	500
1,3-Dichloropropane	BDL	0.50	mg/kg	8260B	07/31/02	500
cis-1,3-Dichloropropene	BDL	0.50	mg/kg	8260B	07/31/02	500
trans-1,3-Dichloropropene	BDL	0.50	mg/kg	8260B	07/31/02	500
2,2-Dichloropropane	BDL	0.50	mg/kg	8260B	07/31/02	500

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-4B 15 FT
Collected By : Matt Mitchell
Collection Date : 07/26/02 12:40

ESC Sample # : L84729-01
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.50	mg/kg	8260B	07/31/02	500
Ethylbenzene	BDL	0.50	mg/kg	8260B	07/31/02	500
Hexachlorobutadiene	BDL	0.50	mg/kg	8260B	07/31/02	500
Isopropylbenzene	BDL	0.50	mg/kg	8260B	07/31/02	500
p-Isopropyltoluene	0.51	0.50	mg/kg	8260B	07/31/02	500
2-Butanone (MEK)	BDL	25.	mg/kg	8260B	07/31/02	500
Methylene Chloride	BDL	2.5	mg/kg	8260B	07/31/02	500
4-Methyl-2-pentanone (MIBK)	BDL	25.	mg/kg	8260B	07/31/02	500
Methyl tert-butyl ether	BDL	0.50	mg/kg	8260B	07/31/02	500
Naphthalene	BDL	2.5	mg/kg	8260B	07/31/02	500
n-Propylbenzene	BDL	0.50	mg/kg	8260B	07/31/02	500
Styrene	BDL	0.50	mg/kg	8260B	07/31/02	500
1,1,1,2-Tetrachloroethane	BDL	0.50	mg/kg	8260B	07/31/02	500
1,1,2,2-Tetrachloroethane	BDL	0.50	mg/kg	8260B	07/31/02	500
Tetrachloroethene	BDL	0.50	mg/kg	8260B	07/31/02	500
Toluene	BDL	2.5	mg/kg	8260B	07/31/02	500
1,2,3-Trichlorobenzene	BDL	0.50	mg/kg	8260B	07/31/02	500
1,2,4-Trichlorobenzene	BDL	0.50	mg/kg	8260B	07/31/02	500
1,1,1-Trichloroethane	BDL	0.50	mg/kg	8260B	07/31/02	500
1,1,2-Trichloroethane	BDL	0.50	mg/kg	8260B	07/31/02	500
Trichloroethene	BDL	0.50	mg/kg	8260B	07/31/02	500
Trichlorofluoromethane	BDL	0.50	mg/kg	8260B	07/31/02	500
1,2,3-Trichloropropane	BDL	0.50	mg/kg	8260B	07/31/02	500
1,2,4-Trimethylbenzene	BDL	0.50	mg/kg	8260B	07/31/02	500
1,3,5-Trimethylbenzene	BDL	0.50	mg/kg	8260B	07/31/02	500
Vinyl chloride	BDL	0.50	mg/kg	8260B	07/31/02	500
Xylenes, Total	BDL	1.5	mg/kg	8260B	07/31/02	500
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/31/02	500
Dibromofluoromethane	99.		% Rec.	8260B	07/31/02	500
4-Bromofluorobenzene	160		% Rec.	8260B	07/31/02	500

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-4A 8 FT
Collected By : Matt Mitchell
Collection Date : 07/25/02 10:15

ESC Sample # : L84729-02
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	250	mg/kg	8260B	08/01/02	5000
Acrolein	BDL	250	mg/kg	8260B	08/01/02	5000
Acrylonitrile	BDL	250	mg/kg	8260B	08/01/02	5000
Benzene	BDL	5.0	mg/kg	8260B	08/01/02	5000
Bromobenzene	BDL	5.0	mg/kg	8260B	08/01/02	5000
Bromodichloromethane	BDL	5.0	mg/kg	8260B	08/01/02	5000
Bromoform	BDL	5.0	mg/kg	8260B	08/01/02	5000
Bromomethane	BDL	5.0	mg/kg	8260B	08/01/02	5000
n-Butylbenzene	BDL	5.0	mg/kg	8260B	08/01/02	5000
sec-Butylbenzene	BDL	5.0	mg/kg	8260B	08/01/02	5000
tert-Butylbenzene	BDL	5.0	mg/kg	8260B	08/01/02	5000
Carbon tetrachloride	BDL	5.0	mg/kg	8260B	08/01/02	5000
Chlorobenzene	BDL	5.0	mg/kg	8260B	08/01/02	5000
Chlorodibromomethane	BDL	5.0	mg/kg	8260B	08/01/02	5000
Chloroethane	BDL	5.0	mg/kg	8260B	08/01/02	5000
2-Chloroethyl vinyl ether	BDL	250	mg/kg	8260B	08/01/02	5000
Chloroform	BDL	25.	mg/kg	8260B	08/01/02	5000
Chloromethane	BDL	5.0	mg/kg	8260B	08/01/02	5000
2-Chlorotoluene	BDL	5.0	mg/kg	8260B	08/01/02	5000
4-Chlorotoluene	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,2-Dibromo-3-Chloropropane	BDL	10.	mg/kg	8260B	08/01/02	5000
1,2-Dibromoethane	BDL	5.0	mg/kg	8260B	08/01/02	5000
Dibromomethane	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,2-Dichlorobenzene	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,3-Dichlorobenzene	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,4-Dichlorobenzene	BDL	5.0	mg/kg	8260B	08/01/02	5000
Dichlorodifluoromethane	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,1-Dichloroethane	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,2-Dichloroethane	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,1-Dichloroethene	BDL	5.0	mg/kg	8260B	08/01/02	5000
cis-1,2-Dichloroethene	BDL	5.0	mg/kg	8260B	08/01/02	5000
trans-1,2-Dichloroethene	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,2-Dichloropropane	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,1-Dichloropropene	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,3-Dichloropropane	BDL	5.0	mg/kg	8260B	08/01/02	5000
cis-1,3-Dichloropropene	BDL	5.0	mg/kg	8260B	08/01/02	5000
trans-1,3-Dichloropropene	BDL	5.0	mg/kg	8260B	08/01/02	5000
2,2-Dichloropropane	BDL	5.0	mg/kg	8260B	08/01/02	5000

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-4A 8 FT
Collected By : Matt Mitchell
Collection Date : 07/25/02 10:15

ESC Sample # : L84729-02
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	5.0	mg/kg	8260B	08/01/02	5000
Ethylbenzene	BDL	5.0	mg/kg	8260B	08/01/02	5000
Hexachlorobutadiene	BDL	5.0	mg/kg	8260B	08/01/02	5000
Isopropylbenzene	BDL	5.0	mg/kg	8260B	08/01/02	5000
p-Isopropyltoluene	BDL	5.0	mg/kg	8260B	08/01/02	5000
2-Butanone (MEK)	BDL	250	mg/kg	8260B	08/01/02	5000
Methylene Chloride	BDL	25.	mg/kg	8260B	08/01/02	5000
4-Methyl-2-pentanone (MIBK)	BDL	250	mg/kg	8260B	08/01/02	5000
Methyl tert-butyl ether	BDL	5.0	mg/kg	8260B	08/01/02	5000
Naphthalene	BDL	25.	mg/kg	8260B	08/01/02	5000
n-Propylbenzene	BDL	5.0	mg/kg	8260B	08/01/02	5000
Styrene	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,1,1,2-Tetrachloroethane	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,1,2,2-Tetrachloroethane	BDL	5.0	mg/kg	8260B	08/01/02	5000
Tetrachloroethene	BDL	5.0	mg/kg	8260B	08/01/02	5000
Toluene	BDL	25.	mg/kg	8260B	08/01/02	5000
1,2,3-Trichlorobenzene	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,2,4-Trichlorobenzene	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,1,1-Trichloroethane	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,1,2-Trichloroethane	BDL	5.0	mg/kg	8260B	08/01/02	5000
Trichloroethene	BDL	5.0	mg/kg	8260B	08/01/02	5000
Trichlorofluoromethane	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,2,3-Trichloropropane	BDL	5.0	mg/kg	8260B	08/01/02	5000
1,2,4-Trimethylbenzene	8.4	5.0	mg/kg	8260B	08/01/02	5000
1,3,5-Trimethylbenzene	6.8	5.0	mg/kg	8260B	08/01/02	5000
Vinyl chloride	BDL	5.0	mg/kg	8260B	08/01/02	5000
Xylenes, Total	BDL	15.	mg/kg	8260B	08/01/02	5000
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/01/02	5000
Dibromofluoromethane	100		% Rec.	8260B	08/01/02	5000
4-Bromofluorobenzene	100		% Rec.	8260B	08/01/02	5000

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-6 2 FT
Collected By : Matt Mitchell
Collection Date : 07/24/02 15:21

ESC Sample # : L84729-03
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	12.	mg/kg	8260B	07/30/02	250
Acrolein	BDL	12.	mg/kg	8260B	07/30/02	250
Acrylonitrile	BDL	12.	mg/kg	8260B	07/30/02	250
Benzene	BDL	0.25	mg/kg	8260B	07/30/02	250
Bromobenzene	BDL	0.25	mg/kg	8260B	07/30/02	250
Bromodichloromethane	BDL	0.25	mg/kg	8260B	07/30/02	250
Bromoform	BDL	0.25	mg/kg	8260B	07/30/02	250
Bromomethane	BDL	0.25	mg/kg	8260B	07/30/02	250
n-Butylbenzene	BDL	0.25	mg/kg	8260B	07/30/02	250
sec-Butylbenzene	BDL	0.25	mg/kg	8260B	07/30/02	250
tert-Butylbenzene	BDL	0.25	mg/kg	8260B	07/30/02	250
Carbon tetrachloride	BDL	0.25	mg/kg	8260B	07/30/02	250
Chlorobenzene	BDL	0.25	mg/kg	8260B	07/30/02	250
Chlorodibromomethane	BDL	0.25	mg/kg	8260B	07/30/02	250
Chloroethane	BDL	0.25	mg/kg	8260B	07/30/02	250
2-Chloroethyl vinyl ether	BDL	12.	mg/kg	8260B	07/30/02	250
Chloroform	BDL	1.2	mg/kg	8260B	07/30/02	250
Chloromethane	BDL	0.25	mg/kg	8260B	07/30/02	250
2-Chlorotoluene	BDL	0.25	mg/kg	8260B	07/30/02	250
4-Chlorotoluene	BDL	0.25	mg/kg	8260B	07/30/02	250
1,2-Dibromo-3-Chloropropane	BDL	0.50	mg/kg	8260B	07/30/02	250
1,2-Dibromoethane	BDL	0.25	mg/kg	8260B	07/30/02	250
Dibromomethane	BDL	0.25	mg/kg	8260B	07/30/02	250
1,2-Dichlorobenzene	BDL	0.25	mg/kg	8260B	07/30/02	250
1,3-Dichlorobenzene	BDL	0.25	mg/kg	8260B	07/30/02	250
1,4-Dichlorobenzene	BDL	0.25	mg/kg	8260B	07/30/02	250
Dichlorodifluoromethane	BDL	0.25	mg/kg	8260B	07/30/02	250
1,1-Dichloroethane	BDL	0.25	mg/kg	8260B	07/30/02	250
1,2-Dichloroethane	BDL	0.25	mg/kg	8260B	07/30/02	250
1,1-Dichloroethene	BDL	0.25	mg/kg	8260B	07/30/02	250
cis-1,2-Dichloroethene	0.54	0.25	mg/kg	8260B	07/30/02	250
trans-1,2-Dichloroethene	BDL	0.25	mg/kg	8260B	07/30/02	250
1,2-Dichloropropane	BDL	0.25	mg/kg	8260B	07/30/02	250
1,1-Dichloropropene	BDL	0.25	mg/kg	8260B	07/30/02	250
1,3-Dichloropropane	BDL	0.25	mg/kg	8260B	07/30/02	250
cis-1,3-Dichloropropene	BDL	0.25	mg/kg	8260B	07/30/02	250
trans-1,3-Dichloropropene	BDL	0.25	mg/kg	8260B	07/30/02	250
2,2-Dichloropropane	BDL	0.25	mg/kg	8260B	07/30/02	250

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-6 2 FT
Collected By : Matt Mitchell
Collection Date : 07/24/02 15:21

ESC Sample # : L84729-03
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.25	mg/kg	8260B	07/30/02	250
Ethylbenzene	BDL	0.25	mg/kg	8260B	07/30/02	250
Hexachlorobutadiene	BDL	0.25	mg/kg	8260B	07/30/02	250
Isopropylbenzene	BDL	0.25	mg/kg	8260B	07/30/02	250
p-Isopropyltoluene	BDL	0.25	mg/kg	8260B	07/30/02	250
2-Butanone (MEK)	BDL	12.	mg/kg	8260B	07/30/02	250
Methylene Chloride	BDL	1.2	mg/kg	8260B	07/30/02	250
4-Methyl-2-pentanone (MIBK)	BDL	12.	mg/kg	8260B	07/30/02	250
Methyl tert-butyl ether	BDL	0.25	mg/kg	8260B	07/30/02	250
Naphthalene	BDL	1.2	mg/kg	8260B	07/30/02	250
n-Propylbenzene	BDL	0.25	mg/kg	8260B	07/30/02	250
Styrene	BDL	0.25	mg/kg	8260B	07/30/02	250
1,1,1,2-Tetrachloroethane	BDL	0.25	mg/kg	8260B	07/30/02	250
1,1,2,2-Tetrachloroethane	BDL	0.25	mg/kg	8260B	07/30/02	250
Tetrachloroethene	12.	0.25	mg/kg	8260B	07/30/02	250
Toluene	BDL	1.2	mg/kg	8260B	07/30/02	250
1,2,3-Trichlorobenzene	BDL	0.25	mg/kg	8260B	07/30/02	250
1,2,4-Trichlorobenzene	BDL	0.25	mg/kg	8260B	07/30/02	250
1,1,1-Trichloroethane	BDL	0.25	mg/kg	8260B	07/30/02	250
1,1,2-Trichloroethane	BDL	0.25	mg/kg	8260B	07/30/02	250
Trichloroethene	0.66	0.25	mg/kg	8260B	07/30/02	250
Trichlorofluoromethane	BDL	0.25	mg/kg	8260B	07/30/02	250
1,2,3-Trichloropropane	BDL	0.25	mg/kg	8260B	07/30/02	250
1,2,4-Trimethylbenzene	0.59	0.25	mg/kg	8260B	07/30/02	250
1,3,5-Trimethylbenzene	BDL	0.25	mg/kg	8260B	07/30/02	250
Vinyl chloride	BDL	0.25	mg/kg	8260B	07/30/02	250
Xylenes, Total	BDL	0.75	mg/kg	8260B	07/30/02	250
Surrogate Recovery						
Toluene-d8	99.		% Rec.	8260B	07/30/02	250
Dibromofluoromethane	100		% Rec.	8260B	07/30/02	250
4-Bromofluorobenzene	100		% Rec.	8260B	07/30/02	250

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-7 16 FT
Collected By : Matt Mitchell
Collection Date : 07/26/02 10:35

ESC Sample # : L84729-04
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	25.	mg/kg	8260B	07/30/02	500
Acrolein	BDL	25.	mg/kg	8260B	07/30/02	500
Acrylonitrile	BDL	25.	mg/kg	8260B	07/30/02	500
Benzene	BDL	0.50	mg/kg	8260B	07/30/02	500
Bromobenzene	BDL	0.50	mg/kg	8260B	07/30/02	500
Bromodichloromethane	BDL	0.50	mg/kg	8260B	07/30/02	500
Bromoform	BDL	0.50	mg/kg	8260B	07/30/02	500
Bromomethane	BDL	0.50	mg/kg	8260B	07/30/02	500
n-Butylbenzene	BDL	0.50	mg/kg	8260B	07/30/02	500
sec-Butylbenzene	0.67	0.50	mg/kg	8260B	07/30/02	500
tert-Butylbenzene	BDL	0.50	mg/kg	8260B	07/30/02	500
Carbon tetrachloride	BDL	0.50	mg/kg	8260B	07/30/02	500
Chlorobenzene	BDL	0.50	mg/kg	8260B	07/30/02	500
Chlorodibromomethane	BDL	0.50	mg/kg	8260B	07/30/02	500
Chloroethane	BDL	0.50	mg/kg	8260B	07/30/02	500
2-Chloroethyl vinyl ether	BDL	25.	mg/kg	8260B	07/30/02	500
Chloroform	BDL	2.5	mg/kg	8260B	07/30/02	500
Chloromethane	BDL	0.50	mg/kg	8260B	07/30/02	500
2-Chlorotoluene	BDL	0.50	mg/kg	8260B	07/30/02	500
4-Chlorotoluene	BDL	0.50	mg/kg	8260B	07/30/02	500
1,2-Dibromo-3-Chloropropane	BDL	1.0	mg/kg	8260B	07/30/02	500
1,2-Dibromoethane	BDL	0.50	mg/kg	8260B	07/30/02	500
Dibromomethane	BDL	0.50	mg/kg	8260B	07/30/02	500
1,2-Dichlorobenzene	BDL	0.50	mg/kg	8260B	07/30/02	500
1,3-Dichlorobenzene	BDL	0.50	mg/kg	8260B	07/30/02	500
1,4-Dichlorobenzene	BDL	0.50	mg/kg	8260B	07/30/02	500
Dichlorodifluoromethane	BDL	0.50	mg/kg	8260B	07/30/02	500
1,1-Dichloroethane	BDL	0.50	mg/kg	8260B	07/30/02	500
1,2-Dichloroethane	BDL	0.50	mg/kg	8260B	07/30/02	500
1,1-Dichloroethene	BDL	0.50	mg/kg	8260B	07/30/02	500
cis-1,2-Dichloroethene	BDL	0.50	mg/kg	8260B	07/30/02	500
trans-1,2-Dichloroethene	BDL	0.50	mg/kg	8260B	07/30/02	500
1,2-Dichloropropane	BDL	0.50	mg/kg	8260B	07/30/02	500
1,1-Dichloropropene	BDL	0.50	mg/kg	8260B	07/30/02	500
1,3-Dichloropropane	BDL	0.50	mg/kg	8260B	07/30/02	500
cis-1,3-Dichloropropene	BDL	0.50	mg/kg	8260B	07/30/02	500
trans-1,3-Dichloropropene	BDL	0.50	mg/kg	8260B	07/30/02	500
2,2-Dichloropropane	BDL	0.50	mg/kg	8260B	07/30/02	500

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-7 16 FT
Collected By : Matt Mitchell
Collection Date : 07/26/02 10:35

ESC Sample # : L84729-04
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.50	mg/kg	8260B	07/30/02	500
Ethylbenzene	BDL	0.50	mg/kg	8260B	07/30/02	500
Hexachlorobutadiene	BDL	0.50	mg/kg	8260B	07/30/02	500
Isopropylbenzene	BDL	0.50	mg/kg	8260B	07/30/02	500
p-Isopropyltoluene	BDL	0.50	mg/kg	8260B	07/30/02	500
2-Butanone (MEK)	BDL	25.	mg/kg	8260B	07/30/02	500
Methylene Chloride	BDL	2.5	mg/kg	8260B	07/30/02	500
4-Methyl-2-pentanone (MIBK)	BDL	25.	mg/kg	8260B	07/30/02	500
Methyl tert-butyl ether	BDL	0.50	mg/kg	8260B	07/30/02	500
Naphthalene	BDL	2.5	mg/kg	8260B	07/30/02	500
n-Propylbenzene	BDL	0.50	mg/kg	8260B	07/30/02	500
Styrene	BDL	0.50	mg/kg	8260B	07/30/02	500
1,1,1,2-Tetrachloroethane	BDL	0.50	mg/kg	8260B	07/30/02	500
1,1,2,2-Tetrachloroethane	BDL	0.50	mg/kg	8260B	07/30/02	500
Tetrachloroethene	BDL	0.50	mg/kg	8260B	07/30/02	500
Toluene	BDL	2.5	mg/kg	8260B	07/30/02	500
1,2,3-Trichlorobenzene	BDL	0.50	mg/kg	8260B	07/30/02	500
1,2,4-Trichlorobenzene	BDL	0.50	mg/kg	8260B	07/30/02	500
1,1,1-Trichloroethane	BDL	0.50	mg/kg	8260B	07/30/02	500
1,1,2-Trichloroethane	BDL	0.50	mg/kg	8260B	07/30/02	500
Trichloroethene	BDL	0.50	mg/kg	8260B	07/30/02	500
Trichlorofluoromethane	BDL	0.50	mg/kg	8260B	07/30/02	500
1,2,3-Trichloropropane	BDL	0.50	mg/kg	8260B	07/30/02	500
1,2,4-Trimethylbenzene	BDL	0.50	mg/kg	8260B	07/30/02	500
1,3,5-Trimethylbenzene	BDL	0.50	mg/kg	8260B	07/30/02	500
Vinyl chloride	BDL	0.50	mg/kg	8260B	07/30/02	500
Xylenes, Total	BDL	1.5	mg/kg	8260B	07/30/02	500
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/30/02	500
Dibromofluoromethane	100		% Rec.	8260B	07/30/02	500
4-Bromofluorobenzene	110		% Rec.	8260B	07/30/02	500

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-8 2 FT
Collected By : Matt Mitchell
Collection Date : 07/26/02 13:05

ESC Sample # : L84729-05
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	500	mg/kg	8260B	08/01/02	10000
Acrolein	BDL	500	mg/kg	8260B	08/01/02	10000
Acrylonitrile	BDL	500	mg/kg	8260B	08/01/02	10000
Benzene	BDL	10.	mg/kg	8260B	08/01/02	10000
Bromobenzene	BDL	10.	mg/kg	8260B	08/01/02	10000
Bromodichloromethane	BDL	10.	mg/kg	8260B	08/01/02	10000
Bromoform	BDL	10.	mg/kg	8260B	08/01/02	10000
Bromomethane	BDL	10.	mg/kg	8260B	08/01/02	10000
n-Butylbenzene	BDL	10.	mg/kg	8260B	08/01/02	10000
sec-Butylbenzene	BDL	10.	mg/kg	8260B	08/01/02	10000
tert-Butylbenzene	BDL	10.	mg/kg	8260B	08/01/02	10000
Carbon tetrachloride	BDL	10.	mg/kg	8260B	08/01/02	10000
Chlorobenzene	BDL	10.	mg/kg	8260B	08/01/02	10000
Chlorodibromomethane	BDL	10.	mg/kg	8260B	08/01/02	10000
Chloroethane	BDL	10.	mg/kg	8260B	08/01/02	10000
2-Chloroethyl vinyl ether	BDL	500	mg/kg	8260B	08/01/02	10000
Chloroform	BDL	50.	mg/kg	8260B	08/01/02	10000
Chloromethane	BDL	10.	mg/kg	8260B	08/01/02	10000
2-Chlorotoluene	BDL	10.	mg/kg	8260B	08/01/02	10000
4-Chlorotoluene	BDL	10.	mg/kg	8260B	08/01/02	10000
1,2-Dibromo-3-Chloropropane	BDL	20.	mg/kg	8260B	08/01/02	10000
1,2-Dibromoethane	BDL	10.	mg/kg	8260B	08/01/02	10000
Dibromomethane	BDL	10.	mg/kg	8260B	08/01/02	10000
1,2-Dichlorobenzene	BDL	10.	mg/kg	8260B	08/01/02	10000
1,3-Dichlorobenzene	BDL	10.	mg/kg	8260B	08/01/02	10000
1,4-Dichlorobenzene	BDL	10.	mg/kg	8260B	08/01/02	10000
Dichlorodifluoromethane	BDL	10.	mg/kg	8260B	08/01/02	10000
1,1-Dichloroethane	BDL	10.	mg/kg	8260B	08/01/02	10000
1,2-Dichloroethane	BDL	10.	mg/kg	8260B	08/01/02	10000
1,1-Dichloroethene	BDL	10.	mg/kg	8260B	08/01/02	10000
cis-1,2-Dichloroethene	BDL	10.	mg/kg	8260B	08/01/02	10000
trans-1,2-Dichloroethene	BDL	10.	mg/kg	8260B	08/01/02	10000
1,2-Dichloropropane	BDL	10.	mg/kg	8260B	08/01/02	10000
1,1-Dichloropropene	BDL	10.	mg/kg	8260B	08/01/02	10000
1,3-Dichloropropane	BDL	10.	mg/kg	8260B	08/01/02	10000
cis-1,3-Dichloropropene	BDL	10.	mg/kg	8260B	08/01/02	10000
trans-1,3-Dichloropropene	BDL	10.	mg/kg	8260B	08/01/02	10000
2,2-Dichloropropane	BDL	10.	mg/kg	8260B	08/01/02	10000

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-8 2 FT
Collected By : Matt Mitchell
Collection Date : 07/26/02 13:05

ESC Sample # : L84729-05
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	10.	mg/kg	8260B	08/01/02	10000
Ethylbenzene	BDL	10.	mg/kg	8260B	08/01/02	10000
Hexachlorobutadiene	BDL	10.	mg/kg	8260B	08/01/02	10000
Isopropylbenzene	BDL	10.	mg/kg	8260B	08/01/02	10000
p-Isopropyltoluene	BDL	10.	mg/kg	8260B	08/01/02	10000
2-Butanone (MEK)	BDL	500	mg/kg	8260B	08/01/02	10000
Methylene Chloride	BDL	50.	mg/kg	8260B	08/01/02	10000
4-Methyl-2-pentanone (MIBK)	BDL	500	mg/kg	8260B	08/01/02	10000
Methyl tert-butyl ether	BDL	10.	mg/kg	8260B	08/01/02	10000
Naphthalene	BDL	50.	mg/kg	8260B	08/01/02	10000
n-Propylbenzene	BDL	10.	mg/kg	8260B	08/01/02	10000
Styrene	BDL	10.	mg/kg	8260B	08/01/02	10000
1,1,1,2-Tetrachloroethane	BDL	10.	mg/kg	8260B	08/01/02	10000
1,1,2,2-Tetrachloroethane	BDL	10.	mg/kg	8260B	08/01/02	10000
Tetrachloroethene	240	10.	mg/kg	8260B	08/01/02	10000
Toluene	BDL	50.	mg/kg	8260B	08/01/02	10000
1,2,3-Trichlorobenzene	BDL	10.	mg/kg	8260B	08/01/02	10000
1,2,4-Trichlorobenzene	BDL	10.	mg/kg	8260B	08/01/02	10000
1,1,1-Trichloroethane	BDL	10.	mg/kg	8260B	08/01/02	10000
1,1,2-Trichloroethane	BDL	10.	mg/kg	8260B	08/01/02	10000
Trichloroethene	BDL	10.	mg/kg	8260B	08/01/02	10000
Trichlorofluoromethane	BDL	10.	mg/kg	8260B	08/01/02	10000
1,2,3-Trichloropropane	BDL	10.	mg/kg	8260B	08/01/02	10000
1,2,4-Trimethylbenzene	BDL	10.	mg/kg	8260B	08/01/02	10000
1,3,5-Trimethylbenzene	BDL	10.	mg/kg	8260B	08/01/02	10000
Vinyl chloride	BDL	10.	mg/kg	8260B	08/01/02	10000
Xylenes, Total	BDL	30.	mg/kg	8260B	08/01/02	10000
Surrogate Recovery						
Toluene-d8	99.		% Rec.	8260B	08/01/02	10000
Dibromofluoromethane	99.		% Rec.	8260B	08/01/02	10000
4-Bromofluorobenzene	100		% Rec.	8260B	08/01/02	10000

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-5 15 FT
Collected By : Matt Mitchell
Collection Date : 07/26/02 07:41

ESC Sample # : L84729-07
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	500	mg/kg	8260B	07/31/02	10000
Acrolein	BDL	500	mg/kg	8260B	07/31/02	10000
Acrylonitrile	BDL	500	mg/kg	8260B	07/31/02	10000
Benzene	BDL	10.	mg/kg	8260B	07/31/02	10000
Bromobenzene	BDL	10.	mg/kg	8260B	07/31/02	10000
Bromodichloromethane	BDL	10.	mg/kg	8260B	07/31/02	10000
Bromoform	BDL	10.	mg/kg	8260B	07/31/02	10000
Bromomethane	BDL	10.	mg/kg	8260B	07/31/02	10000
n-Butylbenzene	BDL	10.	mg/kg	8260B	07/31/02	10000
sec-Butylbenzene	BDL	10.	mg/kg	8260B	07/31/02	10000
tert-Butylbenzene	BDL	10.	mg/kg	8260B	07/31/02	10000
Carbon tetrachloride	BDL	10.	mg/kg	8260B	07/31/02	10000
Chlorobenzene	BDL	10.	mg/kg	8260B	07/31/02	10000
Chlorodibromomethane	BDL	10.	mg/kg	8260B	07/31/02	10000
Chloroethane	BDL	10.	mg/kg	8260B	07/31/02	10000
2-Chloroethyl vinyl ether	BDL	500	mg/kg	8260B	07/31/02	10000
Chloroform	BDL	50.	mg/kg	8260B	07/31/02	10000
Chloromethane	BDL	10.	mg/kg	8260B	07/31/02	10000
2-Chlorotoluene	BDL	10.	mg/kg	8260B	07/31/02	10000
4-Chlorotoluene	BDL	10.	mg/kg	8260B	07/31/02	10000
1,2-Dibromo-3-Chloropropane	BDL	20.	mg/kg	8260B	07/31/02	10000
1,2-Dibromoethane	BDL	10.	mg/kg	8260B	07/31/02	10000
Dibromomethane	BDL	10.	mg/kg	8260B	07/31/02	10000
1,2-Dichlorobenzene	BDL	10.	mg/kg	8260B	07/31/02	10000
1,3-Dichlorobenzene	BDL	10.	mg/kg	8260B	07/31/02	10000
1,4-Dichlorobenzene	BDL	10.	mg/kg	8260B	07/31/02	10000
Dichlorodifluoromethane	BDL	10.	mg/kg	8260B	07/31/02	10000
1,1-Dichloroethane	BDL	10.	mg/kg	8260B	07/31/02	10000
1,2-Dichloroethane	BDL	10.	mg/kg	8260B	07/31/02	10000
1,1-Dichloroethene	BDL	10.	mg/kg	8260B	07/31/02	10000
cis-1,2-Dichloroethene	BDL	10.	mg/kg	8260B	07/31/02	10000
trans-1,2-Dichloroethene	BDL	10.	mg/kg	8260B	07/31/02	10000
1,2-Dichloropropane	BDL	10.	mg/kg	8260B	07/31/02	10000
1,1-Dichloropropene	BDL	10.	mg/kg	8260B	07/31/02	10000
1,3-Dichloropropane	BDL	10.	mg/kg	8260B	07/31/02	10000
cis-1,3-Dichloropropene	BDL	10.	mg/kg	8260B	07/31/02	10000
trans-1,3-Dichloropropene	BDL	10.	mg/kg	8260B	07/31/02	10000
2,2-Dichloropropane	BDL	10.	mg/kg	8260B	07/31/02	10000

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

L84729-07 (V8260) - Non-target compounds too high to run at a lower dilution.

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REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-5 15 FT
Collected By : Matt Mitchell
Collection Date : 07/26/02 07:41

ESC Sample # : L84729-07
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	10.	mg/kg	8260B	07/31/02	10000
Ethylbenzene	BDL	10.	mg/kg	8260B	07/31/02	10000
Hexachlorobutadiene	BDL	10.	mg/kg	8260B	07/31/02	10000
Isopropylbenzene	BDL	10.	mg/kg	8260B	07/31/02	10000
p-Isopropyltoluene	BDL	10.	mg/kg	8260B	07/31/02	10000
2-Butanone (MEK)	BDL	500	mg/kg	8260B	07/31/02	10000
Methylene Chloride	BDL	50.	mg/kg	8260B	07/31/02	10000
4-Methyl-2-pentanone (MIBK)	BDL	500	mg/kg	8260B	07/31/02	10000
Methyl tert-butyl ether	BDL	10.	mg/kg	8260B	07/31/02	10000
Naphthalene	BDL	50.	mg/kg	8260B	07/31/02	10000
n-Propylbenzene	BDL	10.	mg/kg	8260B	07/31/02	10000
Styrene	BDL	10.	mg/kg	8260B	07/31/02	10000
1,1,1,2-Tetrachloroethane	BDL	10.	mg/kg	8260B	07/31/02	10000
1,1,2,2-Tetrachloroethane	BDL	10.	mg/kg	8260B	07/31/02	10000
Tetrachloroethene	BDL	10.	mg/kg	8260B	07/31/02	10000
Toluene	BDL	50.	mg/kg	8260B	07/31/02	10000
1,2,3-Trichlorobenzene	BDL	10.	mg/kg	8260B	07/31/02	10000
1,2,4-Trichlorobenzene	BDL	10.	mg/kg	8260B	07/31/02	10000
1,1,1-Trichloroethane	BDL	10.	mg/kg	8260B	07/31/02	10000
1,1,2-Trichloroethane	BDL	10.	mg/kg	8260B	07/31/02	10000
Trichloroethene	BDL	10.	mg/kg	8260B	07/31/02	10000
Trichlorofluoromethane	BDL	10.	mg/kg	8260B	07/31/02	10000
1,2,3-Trichloropropane	BDL	10.	mg/kg	8260B	07/31/02	10000
1,2,4-Trimethylbenzene	BDL	10.	mg/kg	8260B	07/31/02	10000
1,3,5-Trimethylbenzene	BDL	10.	mg/kg	8260B	07/31/02	10000
Vinyl chloride	BDL	10.	mg/kg	8260B	07/31/02	10000
Xylenes, Total	BDL	30.	mg/kg	8260B	07/31/02	10000
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/31/02	10000
Dibromofluoromethane	97.		% Rec.	8260B	07/31/02	10000
4-Bromofluorobenzene	100		% Rec.	8260B	07/31/02	10000

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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L84729-07 (V8260) - Non-target compounds too high to run at a lower dilution.

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-13 1 FT
Collected By : Matt Mitchell
Collection Date : 07/25/02 17:40

ESC Sample # : L84729-08
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	10000	mg/kg	8260B	07/31/02	200000
Acrolein	BDL	10000	mg/kg	8260B	07/31/02	200000
Acrylonitrile	BDL	10000	mg/kg	8260B	07/31/02	200000
Benzene	BDL	200	mg/kg	8260B	07/31/02	200000
Bromobenzene	BDL	200	mg/kg	8260B	07/31/02	200000
Bromodichloromethane	BDL	200	mg/kg	8260B	07/31/02	200000
Bromoform	BDL	200	mg/kg	8260B	07/31/02	200000
Bromomethane	BDL	200	mg/kg	8260B	07/31/02	200000
n-Butylbenzene	BDL	200	mg/kg	8260B	07/31/02	200000
sec-Butylbenzene	BDL	200	mg/kg	8260B	07/31/02	200000
tert-Butylbenzene	BDL	200	mg/kg	8260B	07/31/02	200000
Carbon tetrachloride	BDL	200	mg/kg	8260B	07/31/02	200000
Chlorobenzene	BDL	200	mg/kg	8260B	07/31/02	200000
Chlorodibromomethane	BDL	200	mg/kg	8260B	07/31/02	200000
Chloroethane	BDL	200	mg/kg	8260B	07/31/02	200000
2-Chloroethyl vinyl ether	BDL	10000	mg/kg	8260B	07/31/02	200000
Chloroform	BDL	1000	mg/kg	8260B	07/31/02	200000
Chloromethane	BDL	200	mg/kg	8260B	07/31/02	200000
2-Chlorotoluene	BDL	200	mg/kg	8260B	07/31/02	200000
4-Chlorotoluene	BDL	200	mg/kg	8260B	07/31/02	200000
1,2-Dibromo-3-Chloropropane	BDL	400	mg/kg	8260B	07/31/02	200000
1,2-Dibromoethane	BDL	200	mg/kg	8260B	07/31/02	200000
Dibromomethane	BDL	200	mg/kg	8260B	07/31/02	200000
1,2-Dichlorobenzene	BDL	200	mg/kg	8260B	07/31/02	200000
1,3-Dichlorobenzene	BDL	200	mg/kg	8260B	07/31/02	200000
1,4-Dichlorobenzene	BDL	200	mg/kg	8260B	07/31/02	200000
Dichlorodifluoromethane	BDL	200	mg/kg	8260B	07/31/02	200000
1,1-Dichloroethane	BDL	200	mg/kg	8260B	07/31/02	200000
1,2-Dichloroethane	BDL	200	mg/kg	8260B	07/31/02	200000
1,1-Dichloroethene	BDL	200	mg/kg	8260B	07/31/02	200000
cis-1,2-Dichloroethene	BDL	200	mg/kg	8260B	07/31/02	200000
trans-1,2-Dichloroethene	BDL	200	mg/kg	8260B	07/31/02	200000
1,2-Dichloropropane	BDL	200	mg/kg	8260B	07/31/02	200000
1,1-Dichloropropene	BDL	200	mg/kg	8260B	07/31/02	200000
1,3-Dichloropropane	BDL	200	mg/kg	8260B	07/31/02	200000
cis-1,3-Dichloropropene	BDL	200	mg/kg	8260B	07/31/02	200000
trans-1,3-Dichloropropene	BDL	200	mg/kg	8260B	07/31/02	200000
2,2-Dichloropropane	BDL	200	mg/kg	8260B	07/31/02	200000

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-13 1 FT
Collected By : Matt Mitchell
Collection Date : 07/25/02 17:40

ESC Sample # : L84729-08
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	200	mg/kg	8260B	07/31/02	200000
Ethylbenzene	BDL	200	mg/kg	8260B	07/31/02	200000
Hexachlorobutadiene	BDL	200	mg/kg	8260B	07/31/02	200000
Isopropylbenzene	BDL	200	mg/kg	8260B	07/31/02	200000
p-Isopropyltoluene	BDL	200	mg/kg	8260B	07/31/02	200000
2-Butanone (MEK)	BDL	10000	mg/kg	8260B	07/31/02	200000
Methylene Chloride	BDL	1000	mg/kg	8260B	07/31/02	200000
4-Methyl-2-pentanone (MIBK)	BDL	10000	mg/kg	8260B	07/31/02	200000
Methyl tert-butyl ether	BDL	200	mg/kg	8260B	07/31/02	200000
Naphthalene	BDL	1000	mg/kg	8260B	07/31/02	200000
n-Propylbenzene	BDL	200	mg/kg	8260B	07/31/02	200000
Styrene	BDL	200	mg/kg	8260B	07/31/02	200000
1,1,1,2-Tetrachloroethane	BDL	200	mg/kg	8260B	07/31/02	200000
1,1,2,2-Tetrachloroethane	BDL	200	mg/kg	8260B	07/31/02	200000
Tetrachloroethene	2400	200	mg/kg	8260B	07/31/02	200000
Toluene	BDL	1000	mg/kg	8260B	07/31/02	200000
1,2,3-Trichlorobenzene	BDL	200	mg/kg	8260B	07/31/02	200000
1,2,4-Trichlorobenzene	BDL	200	mg/kg	8260B	07/31/02	200000
1,1,1-Trichloroethane	BDL	200	mg/kg	8260B	07/31/02	200000
1,1,2-Trichloroethane	BDL	200	mg/kg	8260B	07/31/02	200000
Trichloroethene	BDL	200	mg/kg	8260B	07/31/02	200000
Trichlorofluoromethane	BDL	200	mg/kg	8260B	07/31/02	200000
1,2,3-Trichloropropane	BDL	200	mg/kg	8260B	07/31/02	200000
1,2,4-Trimethylbenzene	BDL	200	mg/kg	8260B	07/31/02	200000
1,3,5-Trimethylbenzene	BDL	200	mg/kg	8260B	07/31/02	200000
Vinyl chloride	BDL	200	mg/kg	8260B	07/31/02	200000
Xylenes, Total	BDL	600	mg/kg	8260B	07/31/02	200000
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/31/02	200000
Dibromofluoromethane	99.		% Rec.	8260B	07/31/02	200000
4-Bromofluorobenzene	100		% Rec.	8260B	07/31/02	200000

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-4
Collected By : Matt Mitchell
Collection Date : 07/25/02 11:41

ESC Sample # : L84729-09
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	1.2	mg/l	8260B	07/31/02	25
Acrolein	BDL	1.2	mg/l	8260B	07/31/02	25
Acrylonitrile	BDL	1.2	mg/l	8260B	07/31/02	25
Benzene	BDL	0.025	mg/l	8260B	07/31/02	25
Bromobenzene	BDL	0.025	mg/l	8260B	07/31/02	25
Bromodichloromethane	BDL	0.025	mg/l	8260B	07/31/02	25
Bromoform	BDL	0.025	mg/l	8260B	07/31/02	25
Bromomethane	BDL	0.025	mg/l	8260B	07/31/02	25
n-Butylbenzene	BDL	0.025	mg/l	8260B	07/31/02	25
sec-Butylbenzene	BDL	0.025	mg/l	8260B	07/31/02	25
tert-Butylbenzene	BDL	0.025	mg/l	8260B	07/31/02	25
Carbon tetrachloride	BDL	0.025	mg/l	8260B	07/31/02	25
Chlorobenzene	BDL	0.025	mg/l	8260B	07/31/02	25
Chlorodibromomethane	BDL	0.025	mg/l	8260B	07/31/02	25
Chloroethane	BDL	0.025	mg/l	8260B	07/31/02	25
2-Chloroethyl vinyl ether	BDL	1.2	mg/l	8260B	07/31/02	25
Chloroform	BDL	0.12	mg/l	8260B	07/31/02	25
Chloromethane	BDL	0.025	mg/l	8260B	07/31/02	25
2-Chlorotoluene	BDL	0.025	mg/l	8260B	07/31/02	25
4-Chlorotoluene	BDL	0.025	mg/l	8260B	07/31/02	25
1,2-Dibromo-3-Chloropropane	BDL	0.050	mg/l	8260B	07/31/02	25
1,2-Dibromoethane	BDL	0.025	mg/l	8260B	07/31/02	25
Dibromomethane	BDL	0.025	mg/l	8260B	07/31/02	25
1,2-Dichlorobenzene	BDL	0.025	mg/l	8260B	07/31/02	25
1,3-Dichlorobenzene	BDL	0.025	mg/l	8260B	07/31/02	25
1,4-Dichlorobenzene	BDL	0.025	mg/l	8260B	07/31/02	25
Dichlorodifluoromethane	BDL	0.025	mg/l	8260B	07/31/02	25
1,1-Dichloroethane	BDL	0.025	mg/l	8260B	07/31/02	25
1,2-Dichloroethane	BDL	0.025	mg/l	8260B	07/31/02	25
1,1-Dichloroethene	BDL	0.025	mg/l	8260B	07/31/02	25
cis-1,2-Dichloroethene	BDL	0.025	mg/l	8260B	07/31/02	25
trans-1,2-Dichloroethene	BDL	0.025	mg/l	8260B	07/31/02	25
1,2-Dichloropropane	BDL	0.025	mg/l	8260B	07/31/02	25
1,1-Dichloropropene	BDL	0.025	mg/l	8260B	07/31/02	25
1,3-Dichloropropane	BDL	0.025	mg/l	8260B	07/31/02	25
cis-1,3-Dichloropropene	BDL	0.025	mg/l	8260B	07/31/02	25
trans-1,3-Dichloropropene	BDL	0.025	mg/l	8260B	07/31/02	25
2,2-Dichloropropane	BDL	0.025	mg/l	8260B	07/31/02	25

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-4
Collected By : Matt Mitchell
Collection Date : 07/25/02 11:41

ESC Sample # : L84729-09
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.025	mg/l	8260B	07/31/02	25
Ethylbenzene	BDL	0.025	mg/l	8260B	07/31/02	25
Hexachlorobutadiene	BDL	0.025	mg/l	8260B	07/31/02	25
Isopropylbenzene	BDL	0.025	mg/l	8260B	07/31/02	25
p-Isopropyltoluene	BDL	0.025	mg/l	8260B	07/31/02	25
2-Butanone (MEK)	BDL	1.2	mg/l	8260B	07/31/02	25
Methylene Chloride	BDL	0.12	mg/l	8260B	07/31/02	25
4-Methyl-2-pentanone (MIBK)	BDL	1.2	mg/l	8260B	07/31/02	25
Methyl tert-butyl ether	BDL	0.025	mg/l	8260B	07/31/02	25
Naphthalene	BDL	0.12	mg/l	8260B	07/31/02	25
n-Propylbenzene	BDL	0.025	mg/l	8260B	07/31/02	25
Styrene	BDL	0.025	mg/l	8260B	07/31/02	25
1,1,1,2-Tetrachloroethane	BDL	0.025	mg/l	8260B	07/31/02	25
1,1,2,2-Tetrachloroethane	BDL	0.025	mg/l	8260B	07/31/02	25
Tetrachloroethene	0.56	0.025	mg/l	8260B	07/31/02	25
Toluene	BDL	0.12	mg/l	8260B	07/31/02	25
1,2,3-Trichlorobenzene	BDL	0.025	mg/l	8260B	07/31/02	25
1,2,4-Trichlorobenzene	BDL	0.025	mg/l	8260B	07/31/02	25
1,1,1-Trichloroethane	BDL	0.025	mg/l	8260B	07/31/02	25
1,1,2-Trichloroethane	BDL	0.025	mg/l	8260B	07/31/02	25
Trichloroethene	BDL	0.025	mg/l	8260B	07/31/02	25
Trichlorofluoromethane	BDL	0.025	mg/l	8260B	07/31/02	25
1,2,3-Trichloropropane	BDL	0.025	mg/l	8260B	07/31/02	25
1,2,4-Trimethylbenzene	BDL	0.025	mg/l	8260B	07/31/02	25
1,3,5-Trimethylbenzene	BDL	0.025	mg/l	8260B	07/31/02	25
Vinyl chloride	BDL	0.025	mg/l	8260B	07/31/02	25
Xylenes, Total	BDL	0.075	mg/l	8260B	07/31/02	25
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/31/02	25
Dibromofluoromethane	100		% Rec.	8260B	07/31/02	25
4-Bromofluorobenzene	95.		% Rec.	8260B	07/31/02	25

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-7
Collected By : Matt Mitchell
Collection Date : 07/26/02 11:35

ESC Sample # : L84729-10
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.50	mg/l	8260B	08/01/02	10
Acrolein	BDL	0.50	mg/l	8260B	08/01/02	10
Acrylonitrile	BDL	0.50	mg/l	8260B	08/01/02	10
Benzene	BDL	0.010	mg/l	8260B	08/01/02	10
Bromobenzene	BDL	0.010	mg/l	8260B	08/01/02	10
Bromodichloromethane	BDL	0.010	mg/l	8260B	08/01/02	10
Bromoform	BDL	0.010	mg/l	8260B	08/01/02	10
Bromomethane	BDL	0.010	mg/l	8260B	08/01/02	10
n-Butylbenzene	BDL	0.010	mg/l	8260B	08/01/02	10
sec-Butylbenzene	BDL	0.010	mg/l	8260B	08/01/02	10
tert-Butylbenzene	BDL	0.010	mg/l	8260B	08/01/02	10
Carbon tetrachloride	BDL	0.010	mg/l	8260B	08/01/02	10
Chlorobenzene	BDL	0.010	mg/l	8260B	08/01/02	10
Chlorodibromomethane	BDL	0.010	mg/l	8260B	08/01/02	10
Chloroethane	BDL	0.010	mg/l	8260B	08/01/02	10
2-Chloroethyl vinyl ether	BDL	0.50	mg/l	8260B	08/01/02	10
Chloroform	BDL	0.050	mg/l	8260B	08/01/02	10
Chloromethane	BDL	0.010	mg/l	8260B	08/01/02	10
2-Chlorotoluene	BDL	0.010	mg/l	8260B	08/01/02	10
4-Chlorotoluene	BDL	0.010	mg/l	8260B	08/01/02	10
1,2-Dibromo-3-Chloropropane	BDL	0.020	mg/l	8260B	08/01/02	10
1,2-Dibromoethane	BDL	0.010	mg/l	8260B	08/01/02	10
Dibromomethane	BDL	0.010	mg/l	8260B	08/01/02	10
1,2-Dichlorobenzene	BDL	0.010	mg/l	8260B	08/01/02	10
1,3-Dichlorobenzene	BDL	0.010	mg/l	8260B	08/01/02	10
1,4-Dichlorobenzene	BDL	0.010	mg/l	8260B	08/01/02	10
Dichlorodifluoromethane	BDL	0.010	mg/l	8260B	08/01/02	10
1,1-Dichloroethane	BDL	0.010	mg/l	8260B	08/01/02	10
1,2-Dichloroethane	BDL	0.010	mg/l	8260B	08/01/02	10
1,1-Dichloroethene	BDL	0.010	mg/l	8260B	08/01/02	10
cis-1,2-Dichloroethene	BDL	0.010	mg/l	8260B	08/01/02	10
trans-1,2-Dichloroethene	BDL	0.010	mg/l	8260B	08/01/02	10
1,2-Dichloropropane	BDL	0.010	mg/l	8260B	08/01/02	10
1,1-Dichloropropene	BDL	0.010	mg/l	8260B	08/01/02	10
1,3-Dichloropropane	BDL	0.010	mg/l	8260B	08/01/02	10
cis-1,3-Dichloropropene	BDL	0.010	mg/l	8260B	08/01/02	10
trans-1,3-Dichloropropene	BDL	0.010	mg/l	8260B	08/01/02	10
2,2-Dichloropropane	BDL	0.010	mg/l	8260B	08/01/02	10

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-7
Collected By : Matt Mitchell
Collection Date : 07/26/02 11:35

ESC Sample # : L84729-10
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.010	mg/l	8260B	08/01/02	10
Ethylbenzene	BDL	0.010	mg/l	8260B	08/01/02	10
Hexachlorobutadiene	BDL	0.010	mg/l	8260B	08/01/02	10
Isopropylbenzene	BDL	0.010	mg/l	8260B	08/01/02	10
p-Isopropyltoluene	BDL	0.010	mg/l	8260B	08/01/02	10
2-Butanone (MEK)	BDL	0.50	mg/l	8260B	08/01/02	10
Methylene Chloride	BDL	0.050	mg/l	8260B	08/01/02	10
4-Methyl-2-pentanone (MIBK)	BDL	0.50	mg/l	8260B	08/01/02	10
Methyl tert-butyl ether	BDL	0.010	mg/l	8260B	08/01/02	10
Naphthalene	BDL	0.050	mg/l	8260B	08/01/02	10
n-Propylbenzene	BDL	0.010	mg/l	8260B	08/01/02	10
Styrene	BDL	0.010	mg/l	8260B	08/01/02	10
1,1,1,2-Tetrachloroethane	BDL	0.010	mg/l	8260B	08/01/02	10
1,1,2,2-Tetrachloroethane	BDL	0.010	mg/l	8260B	08/01/02	10
Tetrachloroethene	0.40	0.010	mg/l	8260B	08/01/02	10
Toluene	BDL	0.050	mg/l	8260B	08/01/02	10
1,2,3-Trichlorobenzene	BDL	0.010	mg/l	8260B	08/01/02	10
1,2,4-Trichlorobenzene	BDL	0.010	mg/l	8260B	08/01/02	10
1,1,1-Trichloroethane	BDL	0.010	mg/l	8260B	08/01/02	10
1,1,2-Trichloroethane	BDL	0.010	mg/l	8260B	08/01/02	10
Trichloroethene	BDL	0.010	mg/l	8260B	08/01/02	10
Trichlorofluoromethane	BDL	0.010	mg/l	8260B	08/01/02	10
1,2,3-Trichloropropane	BDL	0.010	mg/l	8260B	08/01/02	10
1,2,4-Trimethylbenzene	BDL	0.010	mg/l	8260B	08/01/02	10
1,3,5-Trimethylbenzene	BDL	0.010	mg/l	8260B	08/01/02	10
Vinyl chloride	BDL	0.010	mg/l	8260B	08/01/02	10
Xylenes, Total	BDL	0.030	mg/l	8260B	08/01/02	10
Surrogate Recovery						
Toluene-d8	99.		% Rec.	8260B	08/01/02	10
Dibromofluoromethane	100		% Rec.	8260B	08/01/02	10
4-Bromofluorobenzene	100		% Rec.	8260B	08/01/02	10

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-13
Collected By : Matt Mitchell
Collection Date : 07/26/02 08:20

ESC Sample # : L84729-11
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	08/01/02	1
Acrolein	BDL	0.050	mg/l	8260B	08/01/02	1
Acrylonitrile	BDL	0.050	mg/l	8260B	08/01/02	1
Benzene	BDL	0.0010	mg/l	8260B	08/01/02	1
Bromobenzene	BDL	0.0010	mg/l	8260B	08/01/02	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	08/01/02	1
Bromoform	BDL	0.0010	mg/l	8260B	08/01/02	1
Bromomethane	BDL	0.0010	mg/l	8260B	08/01/02	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	08/01/02	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	08/01/02	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	08/01/02	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	08/01/02	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	08/01/02	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	08/01/02	1
Chloroethane	BDL	0.0010	mg/l	8260B	08/01/02	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	08/01/02	1
Chloroform	BDL	0.0050	mg/l	8260B	08/01/02	1
Chloromethane	BDL	0.0010	mg/l	8260B	08/01/02	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/01/02	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/01/02	1
1,2-Dibromo-3-Chloropropane	BDL	0.0020	mg/l	8260B	08/01/02	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	08/01/02	1
Dibromomethane	BDL	0.0010	mg/l	8260B	08/01/02	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/01/02	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/01/02	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/01/02	1
Dichlorodifluoromethane	BDL	0.0010	mg/l	8260B	08/01/02	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	08/01/02	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	08/01/02	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	08/01/02	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/01/02	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/01/02	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/01/02	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	08/01/02	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	08/01/02	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/01/02	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/01/02	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/01/02	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-13
Collected By : Matt Mitchell
Collection Date : 07/26/02 08:20

ESC Sample # : L84729-11
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	08/01/02	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/01/02	1
Hexachlorobutadiene	BDL	0.0010	mg/l	8260B	08/01/02	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	08/01/02	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	08/01/02	1
2-Butanone (MEK)	BDL	0.050	mg/l	8260B	08/01/02	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	08/01/02	1
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/l	8260B	08/01/02	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	08/01/02	1
Naphthalene	BDL	0.0050	mg/l	8260B	08/01/02	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	08/01/02	1
Styrene	BDL	0.0010	mg/l	8260B	08/01/02	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/01/02	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/01/02	1
Tetrachloroethene	0.012	0.0010	mg/l	8260B	08/01/02	1
Toluene	BDL	0.0050	mg/l	8260B	08/01/02	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/01/02	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/01/02	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	08/01/02	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	08/01/02	1
Trichloroethene	BDL	0.0010	mg/l	8260B	08/01/02	1
Trichlorofluoromethane	BDL	0.0010	mg/l	8260B	08/01/02	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	08/01/02	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/01/02	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/01/02	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	08/01/02	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	08/01/02	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/01/02	1
Dibromofluoromethane	100		% Rec.	8260B	08/01/02	1
4-Bromofluorobenzene	99.		% Rec.	8260B	08/01/02	1

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-8
Collected By : Matt Mitchell
Collection Date : 07/26/02 14:25

ESC Sample # : L84729-12
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	1.0	mg/l	8260B	08/01/02	20
Acrolein	BDL	1.0	mg/l	8260B	08/01/02	20
Acrylonitrile	BDL	1.0	mg/l	8260B	08/01/02	20
Benzene	BDL	0.020	mg/l	8260B	08/01/02	20
Bromobenzene	BDL	0.020	mg/l	8260B	08/01/02	20
Bromodichloromethane	BDL	0.020	mg/l	8260B	08/01/02	20
Bromoform	BDL	0.020	mg/l	8260B	08/01/02	20
Bromomethane	BDL	0.020	mg/l	8260B	08/01/02	20
n-Butylbenzene	BDL	0.020	mg/l	8260B	08/01/02	20
sec-Butylbenzene	BDL	0.020	mg/l	8260B	08/01/02	20
tert-Butylbenzene	BDL	0.020	mg/l	8260B	08/01/02	20
Carbon tetrachloride	BDL	0.020	mg/l	8260B	08/01/02	20
Chlorobenzene	BDL	0.020	mg/l	8260B	08/01/02	20
Chlorodibromomethane	BDL	0.020	mg/l	8260B	08/01/02	20
Chloroethane	BDL	0.020	mg/l	8260B	08/01/02	20
2-Chloroethyl vinyl ether	BDL	1.0	mg/l	8260B	08/01/02	20
Chloroform	BDL	0.10	mg/l	8260B	08/01/02	20
Chloromethane	BDL	0.020	mg/l	8260B	08/01/02	20
2-Chlorotoluene	BDL	0.020	mg/l	8260B	08/01/02	20
4-Chlorotoluene	BDL	0.020	mg/l	8260B	08/01/02	20
1,2-Dibromo-3-Chloropropane	BDL	0.040	mg/l	8260B	08/01/02	20
1,2-Dibromoethane	BDL	0.020	mg/l	8260B	08/01/02	20
Dibromomethane	BDL	0.020	mg/l	8260B	08/01/02	20
1,2-Dichlorobenzene	BDL	0.020	mg/l	8260B	08/01/02	20
1,3-Dichlorobenzene	BDL	0.020	mg/l	8260B	08/01/02	20
1,4-Dichlorobenzene	BDL	0.020	mg/l	8260B	08/01/02	20
Dichlorodifluoromethane	BDL	0.020	mg/l	8260B	08/01/02	20
1,1-Dichloroethane	BDL	0.020	mg/l	8260B	08/01/02	20
1,2-Dichloroethane	BDL	0.020	mg/l	8260B	08/01/02	20
1,1-Dichloroethene	BDL	0.020	mg/l	8260B	08/01/02	20
cis-1,2-Dichloroethene	BDL	0.020	mg/l	8260B	08/01/02	20
trans-1,2-Dichloroethene	BDL	0.020	mg/l	8260B	08/01/02	20
1,2-Dichloropropane	BDL	0.020	mg/l	8260B	08/01/02	20
1,1-Dichloropropene	BDL	0.020	mg/l	8260B	08/01/02	20
1,3-Dichloropropane	BDL	0.020	mg/l	8260B	08/01/02	20
cis-1,3-Dichloropropene	BDL	0.020	mg/l	8260B	08/01/02	20
trans-1,3-Dichloropropene	BDL	0.020	mg/l	8260B	08/01/02	20
2,2-Dichloropropane	BDL	0.020	mg/l	8260B	08/01/02	20

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-8
Collected By : Matt Mitchell
Collection Date : 07/26/02 14:25

ESC Sample # : L84729-12
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.020	mg/l	8260B	08/01/02	20
Ethylbenzene	BDL	0.020	mg/l	8260B	08/01/02	20
Hexachlorobutadiene	BDL	0.020	mg/l	8260B	08/01/02	20
Isopropylbenzene	BDL	0.020	mg/l	8260B	08/01/02	20
p-Isopropyltoluene	BDL	0.020	mg/l	8260B	08/01/02	20
2-Butanone (MEK)	BDL	1.0	mg/l	8260B	08/01/02	20
Methylene Chloride	BDL	0.10	mg/l	8260B	08/01/02	20
4-Methyl-2-pentanone (MIBK)	BDL	1.0	mg/l	8260B	08/01/02	20
Methyl tert-butyl ether	BDL	0.020	mg/l	8260B	08/01/02	20
Naphthalene	BDL	0.10	mg/l	8260B	08/01/02	20
n-Propylbenzene	BDL	0.020	mg/l	8260B	08/01/02	20
Styrene	BDL	0.020	mg/l	8260B	08/01/02	20
1,1,1,2-Tetrachloroethane	BDL	0.020	mg/l	8260B	08/01/02	20
1,1,2,2-Tetrachloroethane	BDL	0.020	mg/l	8260B	08/01/02	20
Tetrachloroethene	0.33	0.020	mg/l	8260B	08/01/02	20
Toluene	BDL	0.10	mg/l	8260B	08/01/02	20
1,2,3-Trichlorobenzene	BDL	0.020	mg/l	8260B	08/01/02	20
1,2,4-Trichlorobenzene	BDL	0.020	mg/l	8260B	08/01/02	20
1,1,1-Trichloroethane	BDL	0.020	mg/l	8260B	08/01/02	20
1,1,2-Trichloroethane	BDL	0.020	mg/l	8260B	08/01/02	20
Trichloroethene	BDL	0.020	mg/l	8260B	08/01/02	20
Trichlorofluoromethane	BDL	0.020	mg/l	8260B	08/01/02	20
1,2,3-Trichloropropane	BDL	0.020	mg/l	8260B	08/01/02	20
1,2,4-Trimethylbenzene	BDL	0.020	mg/l	8260B	08/01/02	20
1,3,5-Trimethylbenzene	BDL	0.020	mg/l	8260B	08/01/02	20
Vinyl chloride	BDL	0.020	mg/l	8260B	08/01/02	20
Xylenes, Total	BDL	0.060	mg/l	8260B	08/01/02	20
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/01/02	20
Dibromofluoromethane	100		% Rec.	8260B	08/01/02	20
4-Bromofluorobenzene	100		% Rec.	8260B	08/01/02	20

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-5
Collected By : Matt Mitchell
Collection Date : 07/26/02 08:30

ESC Sample # : L84729-13
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	5.0	mg/l	8260B	08/01/02	100
Acrolein	BDL	5.0	mg/l	8260B	08/01/02	100
Acrylonitrile	BDL	5.0	mg/l	8260B	08/01/02	100
Benzene	BDL	0.10	mg/l	8260B	08/01/02	100
Bromobenzene	BDL	0.10	mg/l	8260B	08/01/02	100
Bromodichloromethane	BDL	0.10	mg/l	8260B	08/01/02	100
Bromoform	BDL	0.10	mg/l	8260B	08/01/02	100
Bromomethane	BDL	0.10	mg/l	8260B	08/01/02	100
n-Butylbenzene	BDL	0.10	mg/l	8260B	08/01/02	100
sec-Butylbenzene	BDL	0.10	mg/l	8260B	08/01/02	100
tert-Butylbenzene	BDL	0.10	mg/l	8260B	08/01/02	100
Carbon tetrachloride	BDL	0.10	mg/l	8260B	08/01/02	100
Chlorobenzene	BDL	0.10	mg/l	8260B	08/01/02	100
Chlorodibromomethane	BDL	0.10	mg/l	8260B	08/01/02	100
Chloroethane	BDL	0.10	mg/l	8260B	08/01/02	100
2-Chloroethyl vinyl ether	BDL	5.0	mg/l	8260B	08/01/02	100
Chloroform	BDL	0.50	mg/l	8260B	08/01/02	100
Chloromethane	BDL	0.10	mg/l	8260B	08/01/02	100
2-Chlorotoluene	BDL	0.10	mg/l	8260B	08/01/02	100
4-Chlorotoluene	BDL	0.10	mg/l	8260B	08/01/02	100
1,2-Dibromo-3-Chloropropane	BDL	0.20	mg/l	8260B	08/01/02	100
1,2-Dibromoethane	BDL	0.10	mg/l	8260B	08/01/02	100
Dibromomethane	BDL	0.10	mg/l	8260B	08/01/02	100
1,2-Dichlorobenzene	BDL	0.10	mg/l	8260B	08/01/02	100
1,3-Dichlorobenzene	BDL	0.10	mg/l	8260B	08/01/02	100
1,4-Dichlorobenzene	BDL	0.10	mg/l	8260B	08/01/02	100
Dichlorodifluoromethane	BDL	0.10	mg/l	8260B	08/01/02	100
1,1-Dichloroethane	BDL	0.10	mg/l	8260B	08/01/02	100
1,2-Dichloroethane	BDL	0.10	mg/l	8260B	08/01/02	100
1,1-Dichloroethene	BDL	0.10	mg/l	8260B	08/01/02	100
cis-1,2-Dichloroethene	BDL	0.10	mg/l	8260B	08/01/02	100
trans-1,2-Dichloroethene	BDL	0.10	mg/l	8260B	08/01/02	100
1,2-Dichloropropane	BDL	0.10	mg/l	8260B	08/01/02	100
1,1-Dichloropropene	BDL	0.10	mg/l	8260B	08/01/02	100
1,3-Dichloropropane	BDL	0.10	mg/l	8260B	08/01/02	100
cis-1,3-Dichloropropene	BDL	0.10	mg/l	8260B	08/01/02	100
trans-1,3-Dichloropropene	BDL	0.10	mg/l	8260B	08/01/02	100
2,2-Dichloropropane	BDL	0.10	mg/l	8260B	08/01/02	100

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-5
Collected By : Matt Mitchell
Collection Date : 07/26/02 08:30

ESC Sample # : L84729-13
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.10	mg/l	8260B	08/01/02	100
Ethylbenzene	BDL	0.10	mg/l	8260B	08/01/02	100
Hexachlorobutadiene	BDL	0.10	mg/l	8260B	08/01/02	100
Isopropylbenzene	BDL	0.10	mg/l	8260B	08/01/02	100
p-Isopropyltoluene	BDL	0.10	mg/l	8260B	08/01/02	100
2-Butanone (MEK)	BDL	5.0	mg/l	8260B	08/01/02	100
Methylene Chloride	BDL	0.50	mg/l	8260B	08/01/02	100
4-Methyl-2-pentanone (MIBK)	BDL	5.0	mg/l	8260B	08/01/02	100
Methyl tert-butyl ether	BDL	0.10	mg/l	8260B	08/01/02	100
Naphthalene	BDL	0.50	mg/l	8260B	08/01/02	100
n-Propylbenzene	BDL	0.10	mg/l	8260B	08/01/02	100
Styrene	BDL	0.10	mg/l	8260B	08/01/02	100
1,1,1,2-Tetrachloroethane	BDL	0.10	mg/l	8260B	08/01/02	100
1,1,2,2-Tetrachloroethane	BDL	0.10	mg/l	8260B	08/01/02	100
Tetrachloroethene	2.5	0.10	mg/l	8260B	08/01/02	100
Toluene	BDL	0.50	mg/l	8260B	08/01/02	100
1,2,3-Trichlorobenzene	BDL	0.10	mg/l	8260B	08/01/02	100
1,2,4-Trichlorobenzene	BDL	0.10	mg/l	8260B	08/01/02	100
1,1,1-Trichloroethane	BDL	0.10	mg/l	8260B	08/01/02	100
1,1,2-Trichloroethane	BDL	0.10	mg/l	8260B	08/01/02	100
Trichloroethene	BDL	0.10	mg/l	8260B	08/01/02	100
Trichlorofluoromethane	BDL	0.10	mg/l	8260B	08/01/02	100
1,2,3-Trichloropropane	BDL	0.10	mg/l	8260B	08/01/02	100
1,2,4-Trimethylbenzene	BDL	0.10	mg/l	8260B	08/01/02	100
1,3,5-Trimethylbenzene	BDL	0.10	mg/l	8260B	08/01/02	100
Vinyl chloride	BDL	0.10	mg/l	8260B	08/01/02	100
Xylenes, Total	BDL	0.30	mg/l	8260B	08/01/02	100
Surrogate Recovery						
Toluene-d8	99.		% Rec.	8260B	08/01/02	100
Dibromofluoromethane	100		% Rec.	8260B	08/01/02	100
4-Bromofluorobenzene	100		% Rec.	8260B	08/01/02	100

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : TRIP BLANK
Collected By : Matt Mitchell
Collection Date : 07/25/02 00:00

ESC Sample # : L84729-14
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	07/31/02	1
Acrolein	BDL	0.050	mg/l	8260B	07/31/02	1
Acrylonitrile	BDL	0.050	mg/l	8260B	07/31/02	1
Benzene	BDL	0.0010	mg/l	8260B	07/31/02	1
Bromobenzene	BDL	0.0010	mg/l	8260B	07/31/02	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	07/31/02	1
Bromoform	BDL	0.0010	mg/l	8260B	07/31/02	1
Bromomethane	BDL	0.0010	mg/l	8260B	07/31/02	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	07/31/02	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	07/31/02	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	07/31/02	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	07/31/02	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	07/31/02	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	07/31/02	1
Chloroethane	BDL	0.0010	mg/l	8260B	07/31/02	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	07/31/02	1
Chloroform	BDL	0.0050	mg/l	8260B	07/31/02	1
Chloromethane	BDL	0.0010	mg/l	8260B	07/31/02	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/31/02	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/31/02	1
1,2-Dibromo-3-Chloropropane	BDL	0.0020	mg/l	8260B	07/31/02	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	07/31/02	1
Dibromomethane	BDL	0.0010	mg/l	8260B	07/31/02	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/31/02	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/31/02	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/31/02	1
Dichlorodifluoromethane	BDL	0.0010	mg/l	8260B	07/31/02	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	07/31/02	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	07/31/02	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	07/31/02	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/31/02	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/31/02	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/31/02	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	07/31/02	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	07/31/02	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/31/02	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/31/02	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/31/02	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 02, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : TRIP BLANK
Collected By : Matt Mitchell
Collection Date : 07/25/02 00:00

ESC Sample # : L84729-14
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	07/31/02	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	07/31/02	1
Hexachlorobutadiene	BDL	0.0010	mg/l	8260B	07/31/02	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	07/31/02	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	07/31/02	1
2-Butanone (MEK)	BDL	0.050	mg/l	8260B	07/31/02	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	07/31/02	1
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/l	8260B	07/31/02	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	07/31/02	1
Naphthalene	BDL	0.0050	mg/l	8260B	07/31/02	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	07/31/02	1
Styrene	BDL	0.0010	mg/l	8260B	07/31/02	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/31/02	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/31/02	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	07/31/02	1
Toluene	BDL	0.0050	mg/l	8260B	07/31/02	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/31/02	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/31/02	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	07/31/02	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	07/31/02	1
Trichloroethene	BDL	0.0010	mg/l	8260B	07/31/02	1
Trichlorofluoromethane	BDL	0.0010	mg/l	8260B	07/31/02	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	07/31/02	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/31/02	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/31/02	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	07/31/02	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	07/31/02	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	07/31/02	1
Dibromofluoromethane	110		% Rec.	8260B	07/31/02	1
4-Bromofluorobenzene	95.		% Rec.	8260B	07/31/02	1

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L84729-01	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FHJ4
	2-Chloroethyl vinyl ether	FH
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FHJ4
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FHJ4
	1,2,4-Trichlorobenzene	FHJ4
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FHJ4
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
	4-Bromofluorobenzene	J1
L84729-02	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FH
	2-Chloroethyl vinyl ether	FH
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FH
	1,2,4-Trichlorobenzene	FH
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L84729-03	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FHJ4
	2-Chloroethyl vinyl ether	FH
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FHJ4
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FHJ4
	1,2,4-Trichlorobenzene	FHJ4
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FHJ4
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L84729-04	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	Chlorodibromomethane	FH
	Chloroethane	FHJ4
	2-Chloroethyl vinyl ether	FH
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FHJ4
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FHJ4
	1,2,4-Trichlorobenzene	FHJ4
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FHJ4
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L84729-05	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FH
	2-Chloroethyl vinyl ether	FH
	Chloroform	FH
	Chloromethane	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FH
	1,2,4-Trichlorobenzene	FH
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L84729-07	Acetone	HO
	Acrolein	HOJ4
	Acrylonitrile	HO
	Benzene	HO
	Bromobenzene	HO
	Bromodichloromethane	HO
	Bromoform	HO
	Bromomethane	HO
	n-Butylbenzene	HO
	sec-Butylbenzene	HO
	tert-Butylbenzene	HO
	Carbon tetrachloride	HO
	Chlorobenzene	HO
	Chlorodibromomethane	HO
	Chloroethane	HO
	2-Chloroethyl vinyl ether	HO
	Chloroform	HO
	Chloromethane	HO
	2-Chlorotoluene	HO
	4-Chlorotoluene	HO
	1,2-Dibromo-3-Chloropropane	HO
	1,2-Dibromoethane	HO
	Dibromomethane	HO

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	1,2-Dichlorobenzene	HO
	1,3-Dichlorobenzene	HO
	1,4-Dichlorobenzene	HO
	Dichlorodifluoromethane	HO
	1,1-Dichloroethane	HO
	1,2-Dichloroethane	HO
	1,1-Dichloroethene	HO
	cis-1,2-Dichloroethene	HO
	trans-1,2-Dichloroethene	HO
	1,2-Dichloropropane	HO
	1,1-Dichloropropene	HO
	1,3-Dichloropropane	HO
	cis-1,3-Dichloropropene	HO
	trans-1,3-Dichloropropene	HO
	2,2-Dichloropropane	HO
	Di-isopropyl ether	HO
	Ethylbenzene	HO
	Hexachlorobutadiene	HO
	Isopropylbenzene	HO
	p-Isopropyltoluene	HO
	2-Butanone (MEK)	HO
	Methylene Chloride	HO
	4-Methyl-2-pentanone (MIBK)	HO
	Methyl tert-butyl ether	HO
	Naphthalene	HO
	n-Propylbenzene	HO
	Styrene	HO
	1,1,1,2-Tetrachloroethane	HO
	1,1,2,2-Tetrachloroethane	HO
	Tetrachloroethene	HO
	Toluene	HO
	1,2,3-Trichlorobenzene	HO
	1,2,4-Trichlorobenzene	HO
	1,1,1-Trichloroethane	HO
	1,1,2-Trichloroethane	HO
	Trichloroethene	HO
	Trichlorofluoromethane	HO
	1,2,3-Trichloropropane	HO
	1,2,4-Trimethylbenzene	HO
	1,3,5-Trimethylbenzene	HO
	Vinyl chloride	HO
	Xylenes, Total	HO
L84729-08	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FH
	2-Chloroethyl vinyl ether	FH
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FH
	1,2,4-Trichlorobenzene	FH
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L84729-09	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FHJ4
	2-Chloroethyl vinyl ether	FHJ4
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FHJ4
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FHJ4
	1,2,4-Trichlorobenzene	FHJ4
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FHJ4
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L84729-10	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FH
	2-Chloroethyl vinyl ether	FH
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FHJ4
	1,2,4-Trichlorobenzene	FHJ4
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L84729-11	Acetone	H
	Acrolein	HJ4J6
	Acrylonitrile	H
	Benzene	H
	Bromobenzene	H
	Bromodichloromethane	H
	Bromoform	H
	Bromomethane	H
	n-Butylbenzene	H
	sec-Butylbenzene	H
	tert-Butylbenzene	H
	Carbon tetrachloride	H
	Chlorobenzene	H
	Chlorodibromomethane	H
	Chloroethane	H
	2-Chloroethyl vinyl ether	HJ6
	Chloroform	H
	Chloromethane	H
	2-Chlorotoluene	H
	4-Chlorotoluene	H
	1,2-Dibromo-3-Chloropropane	H
	1,2-Dibromoethane	H
	Dibromomethane	H
	1,2-Dichlorobenzene	H
	1,3-Dichlorobenzene	H
	1,4-Dichlorobenzene	H
	Dichlorodifluoromethane	H
	1,1-Dichloroethane	H
	1,2-Dichloroethane	H
	1,1-Dichloroethene	H
	cis-1,2-Dichloroethene	H
	trans-1,2-Dichloroethene	H
	1,2-Dichloropropane	H
	1,1-Dichloropropene	H
	1,3-Dichloropropane	H
	cis-1,3-Dichloropropene	H
	trans-1,3-Dichloropropene	H
	2,2-Dichloropropane	H
	Di-isopropyl ether	H
	Ethylbenzene	H
	Hexachlorobutadiene	H
	Isopropylbenzene	H
	p-Isopropyltoluene	H

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	2-Butanone (MEK)	H
	Methylene Chloride	H
	4-Methyl-2-pentanone (MIBK)	H
	Methyl tert-butyl ether	H
	Naphthalene	H
	n-Propylbenzene	H
	Styrene	H
	1,1,1,2-Tetrachloroethane	H
	1,1,2,2-Tetrachloroethane	H
	Tetrachloroethene	H
	Toluene	H
	1,2,3-Trichlorobenzene	HJ4J5
	1,2,4-Trichlorobenzene	HJ4J5
	1,1,1-Trichloroethane	H
	1,1,2-Trichloroethane	H
	Trichloroethene	H
	Trichlorofluoromethane	H
	1,2,3-Trichloropropane	H
	1,2,4-Trimethylbenzene	H
	1,3,5-Trimethylbenzene	H
	Vinyl chloride	H
	Xylenes, Total	H
L84729-12	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FH
	2-Chloroethyl vinyl ether	FH
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FHJ4
	1,2,4-Trichlorobenzene	FHJ4
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L84729-13	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FH
	2-Chloroethyl vinyl ether	FH
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	Toluene	FH
	1,2,3-Trichlorobenzene	FHJ4
	1,2,4-Trichlorobenzene	FHJ4
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L84729-14	Acetone	H
	Acrolein	HJ4
	Acrylonitrile	H
	Benzene	H
	Bromobenzene	H
	Bromodichloromethane	H
	Bromoform	H
	Bromomethane	H
	n-Butylbenzene	H
	sec-Butylbenzene	H
	tert-Butylbenzene	H
	Carbon tetrachloride	H
	Chlorobenzene	H
	Chlorodibromomethane	H
	Chloroethane	HJ4
	2-Chloroethyl vinyl ether	HJ4
	Chloroform	H
	Chloromethane	H
	2-Chlorotoluene	H
	4-Chlorotoluene	H
	1,2-Dibromo-3-Chloropropane	H
	1,2-Dibromoethane	H
	Dibromomethane	H
	1,2-Dichlorobenzene	H
	1,3-Dichlorobenzene	H
	1,4-Dichlorobenzene	H
	Dichlorodifluoromethane	H
	1,1-Dichloroethane	H
	1,2-Dichloroethane	H
	1,1-Dichloroethene	H
	cis-1,2-Dichloroethene	H
	trans-1,2-Dichloroethene	H
	1,2-Dichloropropane	H
	1,1-Dichloropropene	H
	1,3-Dichloropropane	H
	cis-1,3-Dichloropropene	H
	trans-1,3-Dichloropropene	H
	2,2-Dichloropropane	H
	Di-isopropyl ether	H
	Ethylbenzene	H
	Hexachlorobutadiene	H
	Isopropylbenzene	H
	p-Isopropyltoluene	H
	2-Butanone (MEK)	H
	Methylene Chloride	H
	4-Methyl-2-pentanone (MIBK)	H
	Methyl tert-butyl ether	H
	Naphthalene	H
	n-Propylbenzene	H
	Styrene	H
	1,1,1,2-Tetrachloroethane	H
	1,1,2,2-Tetrachloroethane	H
	Tetrachloroethene	H
	Toluene	H
	1,2,3-Trichlorobenzene	H
	1,2,4-Trichlorobenzene	H
	1,1,1-Trichloroethane	H
	1,1,2-Trichloroethane	H

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	Trichloroethene	H
	Trichlorofluoromethane	H
	1,2,3-Trichloropropane	H
	1,2,4-Trimethylbenzene	H
	1,3,5-Trimethylbenzene	H
	Vinyl chloride	H
	Xylenes, Total	H

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
H	RIN(EPA)-Re-Analyzed: The indicated analytical results were generated from a reinjection of the same sample extract or aliquot.
F	SRN (EPA) - Diluted: The original sample was diluted due to high amounts of one or more target analytes. All associated method analytes will be subject to an elevated detection limit relative to the dilution factor.
J4	The associated batch QC did not successfully meet the established quality control criteria for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is unacceptably high
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is unacceptably low
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

URS Corporation - Cincinnati

36 East 7th Street Suite 2300
Cincinnati,OH 45202

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 1 of 4

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. William Eckhoff
Email: william_eckhoff@urscorp.co
Project Description: DCI - Keystone
City/State Collected: Indianapolis IN
Phone: (513) 651-3440
FAX: (513) 651-3452
Client Project #: 022 30351-~~013~~-121
Lab Project #: DAMESOH-30351013121
Collected by (print): Matt Mitchell
Site/Facility ID#:
P.O.#:
Collected by (signature): Matt Mitchell
Packed on Ice N ___ Y X
Rush? (Lab MUST Be Notified)
___Same Day 200%
___ Next Day.....100%
___ Two Day 50%
Date Results Needed
Email? ___No X Yes
FAX? No Yes

CoCode: DAMESOH (lab use only)
Template/Prelogin: T7078 / P61408
Cooler #:
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TOC 4ozClr-NoPres	V8260 2ozClr-NoPres (Archive)	V8260 40mlAmb-HCl	V8260 2 oz clr no pres					Remarks/Contaminant	Sample # (lab only)
GP-8 (21')	Grab	SS	21'	7/25/02	1350	1		X								
GP-4B (15')	Grab	SS	15'	7/25/02	1240	1		~~X~~		X						L84729-01
GP-4B (12')	Grab	SS	12'	7/25/02	1228	1		X								
GP-4B (5')	Grab	SS	5'	7/25/02	1212	1		X								
GP-4B (22')	Grab	SS	22'	7/25/02	1306	1		X								
GP-4A (8')	Grab	SS	8'	7/25/02	1015	1		~~X~~		X						02
GP-6 (21')	Grab	SS	21'	7/24/02	1651	1		X								
GP-6 (22')	Grab	SS	22'	7/24/02	1652	1		X								
GP-6 (8')	Grab	SS	8'	7/24/02	1538	1		X								

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks:
Level 4 QC Data Package

Refer to P62316

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)	
Matt Mitchell	7/24/02	1530				
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3°C Bottles Received: 38		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Joan Estes	Date: 7-27-02 Time: 10:00	pH Checked:	NCF: yes

URS Corporation - Cincinnati

36 East 7th Street Suite 2300
Cincinnati,OH 45202

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 2 of 3

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. William Eckhoff
Email: william_eckhoff@urscorp.co
Project Description: DCI - Keystone
City/State Collected: Indianapolis IN
Phone: (513) 651-3440
FAX: (513) 651-3452
Client Project #: 022 30351-~~013~~-121
Lab Project #: DAMESOH-30351013121
Collected by (print): Matt Mitchell
Site/Facility ID#:
P.O.#:
Collected by (signature): Matt Mitchell
Packed on Ice N ___ Y X
Rush? (Lab MUST Be Notified)
___Same Day 200%
___ Next Day 100%
___ Two Day 50%
Date Results Needed
Email? ___No X Yes
FAX? ___No ___Yes

CoCode: DAMESOH (lab use only)
Template/Prelogin: T7078 / P61408
Cooler #:
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TOC 4ozClr-NoPres	~~V8260 2ozClr-NoPres~~ Archive	V8260 40mlAmb-HCl	V8260 2oz clr-No Pres				Remarks/Contaminant	Sample # (lab only)
GP-6 (2')	Grab	SS	2'	7/24/02	1521	1		X		X					L84729-03
~~GP-6 (8')~~	Grab	SS	8'	7/24/02	1538	1		X							
~~GP-6 (21')~~	Grab	SS	21'	7/24/02	1651	1		X							
~~GP-6 (22')~~	Grab	SS	22'	7/24/02	1652	1		X							
GP-7 (16')	Grab	SS	16'	7/26/02	1035	1		X		X					04
GP-7 (21')	Grab	SS	21'	7/26/02	1055	1		X							
GP-7 (23')	Grab	SS	(23')	7/26/02	1057	1		X							
GP-8 (2')	Grab	SS	2'	7/26/02	1305	1		X		X					05
GP-8 (14')	Grab	SS	14'	7/26/02	1325	1		X							

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks: Level 4 QC Data Package! Refer to P62316

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)	
Matt Mitchell	7/26/02	1530				
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3°C Bottles Received: 38		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 7-27-02 Time: 10:00	pH Checked:	NCF: yes

URS Corporation - Cincinnati

36 East 7th Street Suite 2300
Cincinnati,OH 45202

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 3 of 4

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
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Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. William Eckhoff
Email: william_eckhoff@urscorp.co
Project Description: DCI - Keystone
City/State Collected: Indianapolis IN
Phone: (513) 651-3440
FAX: (513) 651-3452
Client Project #: 022 30351-013-121
Lab Project #: DAMESOH-30351013121
Collected by (print): Matt Mitchell
Site/Facility ID#:
P.O.#:
Collected by (signature): Matt Mitchell
Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%

Date Results Needed
Email? ___No X Yes
FAX? ___No ___Yes

CoCode: DAMESOH (lab use only)
Template/Prelogin: T7078 / P61408
Cooler #:
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TOC 4ozClr-NoPres	~~V8260 2ozClr-NoPres~~ Archive	V8260 40mlAmb-HCl	V8260 2oz Clr-NoPres				Remarks/Contaminant	Sample # (lab only)
~~GP-5 (2')~~	Grab	SS	2'	7/24/02	1521	1		~~X~~		X					~~L84728-06~~
GP-5 (7')		SS	7'	7/26/02	0717	1		X							
GP-5 (22')		SS	22'	7/26/02	0930	1		X							
GP-5 (12')		SS	12'	7/26/02	0733	1		X							
GP-5 (15')		SS	15'	7/26/02	0741	1		~~X~~		X					L84729 07~~06~~
GP-13 (1')		SS	1'	7/25/02	1740	1		~~X~~		X					08
GP-13 (4')		SS	4'	7/25/02	1811	1		X							
GP-13 (22')		SS	22'	7/25/02	1851	1		X							
		SS				1		X							

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks: Level 4 QC Data Package

Refer to P62316

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)	
Matt Mitchell	7/26/02	1530				
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3°C Bottles Received: 38		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Susan Estes	Date: 7-27-02 Time: 10:00	pH Checked:	NCF: yes

URS Corporation - Cincinnati

36 East 7th Street Suite 2300
Cincinnati,OH 45202

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 4 of 4

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. William Eckhoff
Email: william_eckhoff@urscorp.co
Project Description: DCI - Keystone
City/State Collected: Indianapolis IN
Phone: (513) 651-3440
FAX: (513) 651-3452
Client Project #: 022 30351-~~013~~-121
Lab Project #: DAMESOH-30351013121
Collected by (print): Matt Mitchell
Site/Facility ID#:
P.O.#:
Collected by (signature): Matt Mitchell
Packed on Ice N___ Y X
Rush? (Lab MUST Be Notified)
___Same Day 200%
___Next Day.....100%
___Two Day 50%
Date Results Needed
Email? __No X Yes
FAX? __No __Yes

CoCode: DAMESOH (lab use only)
Template/Prelogin: T7078 / P61408
Cooler #:
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TOC 4ozClr-NoPres	V8260 2ozClr-NoPres	V8260 40mlAmb-HCl				Remarks/Contaminant	Sample # (lab only)
GP-4	Grab	GW	—	7/25/02	1141	3			X					L 89721-09
GP-7	Grab	GW	—	7/26/02	1135	3			X					10
GP-13	Grab	GW	—	7/25/02	0820	3			X					11
GP-8	Grab	GW	—	7/26/02	1425	3			X					12
GP-5	Grab	GW	—	7/26/02	0830	3			X					13
Trip Blank	Grab	GW	—	—	—	3			X					14
		GW				3			X					
		GW				3			X					
		GW				3			X					

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks: Level 4 QC Data Package

Refer to P 62316

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐	Condition: (lab use only)
Matt Mitchell	7/26/02	1530			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3C Bottles Received: 38	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Jason Estes	Date: 7-27-02 Time: 10:00	pH Checked: NCF yes

Tom

ENVIRONMENTAL SCIENCE CORP.

SAMPLE NON-CONFORMANCE FORM

Sample No. : L84729-

Date : 7-27-02

Evaluated by: Jasen

Client: DAMESOH

Non-Conformance (check applicable items)

- ____ Parameter(s) past holding
- ____ Improper container type / Bottle broken and/or cap not in tact
- ____ Chain of custody is incomplete / missing
- ____ Improper temperature/preservation
- ✓ Login Clarification Needed

Comments:
They put GP-6 (all) twice on CoC. Same time & Date.
V8260 is marked out, and Archive is written.
They wrote V8260 on Chain. What analysis?

Login Instructions: TSR Initials: CC

✓ Client informed by (call) / letter / fax date: 7-29-02 time: 900

Client contact: William Eckhoff

Comments:
GP-6 range mistakenly written on chain of custody twice.
Run V8260 for indicated samples only.

ENVIRONMENTAL
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 07, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-8 14 FT
Collected By : Matt Mitchell
Collection Date : 07/26/02 13:25

ESC Sample # : L85360-01
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	25.	mg/kg	8260B	08/06/02	500
Acrolein	BDL	25.	mg/kg	8260B	08/06/02	500
Acrylonitrile	BDL	25.	mg/kg	8260B	08/06/02	500
Benzene	BDL	0.50	mg/kg	8260B	08/06/02	500
Bromobenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
Bromodichloromethane	BDL	0.50	mg/kg	8260B	08/06/02	500
Bromoform	BDL	0.50	mg/kg	8260B	08/06/02	500
Bromomethane	BDL	0.50	mg/kg	8260B	08/06/02	500
n-Butylbenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
sec-Butylbenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
tert-Butylbenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
Carbon tetrachloride	BDL	0.50	mg/kg	8260B	08/06/02	500
Chlorobenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
Chlorodibromomethane	BDL	0.50	mg/kg	8260B	08/06/02	500
Chloroethane	BDL	0.50	mg/kg	8260B	08/06/02	500
2-Chloroethyl vinyl ether	BDL	25.	mg/kg	8260B	08/06/02	500
Chloroform	BDL	2.5	mg/kg	8260B	08/06/02	500
Chloromethane	BDL	0.50	mg/kg	8260B	08/06/02	500
2-Chlorotoluene	BDL	0.50	mg/kg	8260B	08/06/02	500
4-Chlorotoluene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,2-Dibromo-3-Chloropropane	BDL	1.0	mg/kg	8260B	08/06/02	500
1,2-Dibromoethane	BDL	0.50	mg/kg	8260B	08/06/02	500
Dibromomethane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,2-Dichlorobenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,3-Dichlorobenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,4-Dichlorobenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
Dichlorodifluoromethane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,1-Dichloroethane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,2-Dichloroethane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,1-Dichloroethene	BDL	0.50	mg/kg	8260B	08/06/02	500
cis-1,2-Dichloroethene	BDL	0.50	mg/kg	8260B	08/06/02	500
trans-1,2-Dichloroethene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,2-Dichloropropane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,1-Dichloropropene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,3-Dichloropropane	BDL	0.50	mg/kg	8260B	08/06/02	500
cis-1,3-Dichloropropene	BDL	0.50	mg/kg	8260B	08/06/02	500
trans-1,3-Dichloropropene	BDL	0.50	mg/kg	8260B	08/06/02	500
2,2-Dichloropropane	BDL	0.50	mg/kg	8260B	08/06/02	500

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

ENVIRONMENTAL
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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 07, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-8 14 FT
Collected By : Matt Mitchell
Collection Date : 07/26/02 13:25

ESC Sample # : L85360-01
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.50	mg/kg	8260B	08/06/02	500
Ethylbenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
Hexachlorobutadiene	BDL	0.50	mg/kg	8260B	08/06/02	500
Isopropylbenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
p-Isopropyltoluene	BDL	0.50	mg/kg	8260B	08/06/02	500
2-Butanone (MEK)	BDL	25.	mg/kg	8260B	08/06/02	500
Methylene Chloride	BDL	2.5	mg/kg	8260B	08/06/02	500
4-Methyl-2-pentanone (MIBK)	BDL	25.	mg/kg	8260B	08/06/02	500
Methyl tert-butyl ether	BDL	0.50	mg/kg	8260B	08/06/02	500
Naphthalene	BDL	2.5	mg/kg	8260B	08/06/02	500
n-Propylbenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
Styrene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,1,1,2-Tetrachloroethane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,1,2,2-Tetrachloroethane	BDL	0.50	mg/kg	8260B	08/06/02	500
Tetrachloroethene	12.	0.50	mg/kg	8260B	08/06/02	500
Toluene	BDL	2.5	mg/kg	8260B	08/06/02	500
1,2,3-Trichlorobenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,2,4-Trichlorobenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,1,1-Trichloroethane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,1,2-Trichloroethane	BDL	0.50	mg/kg	8260B	08/06/02	500
Trichloroethene	BDL	0.50	mg/kg	8260B	08/06/02	500
Trichlorofluoromethane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,2,3-Trichloropropane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,2,4-Trimethylbenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,3,5-Trimethylbenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
Vinyl chloride	BDL	0.50	mg/kg	8260B	08/06/02	500
Xylenes, Total	BDL	1.5	mg/kg	8260B	08/06/02	500
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/06/02	500
Dibromofluoromethane	96.		% Rec.	8260B	08/06/02	500
4-Bromofluorobenzene	93.		% Rec.	8260B	08/06/02	500

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

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REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 07, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-5 7 FT
Collected By : Matt Mitchell
Collection Date : 07/26/02 07:17

ESC Sample # : L85360-02
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	25.	mg/kg	8260B	08/06/02	500
Acrolein	BDL	25.	mg/kg	8260B	08/06/02	500
Acrylonitrile	BDL	25.	mg/kg	8260B	08/06/02	500
Benzene	BDL	0.50	mg/kg	8260B	08/06/02	500
Bromobenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
Bromodichloromethane	BDL	0.50	mg/kg	8260B	08/06/02	500
Bromoform	BDL	0.50	mg/kg	8260B	08/06/02	500
Bromomethane	BDL	0.50	mg/kg	8260B	08/06/02	500
n-Butylbenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
sec-Butylbenzene	0.94	0.50	mg/kg	8260B	08/06/02	500
tert-Butylbenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
Carbon tetrachloride	BDL	0.50	mg/kg	8260B	08/06/02	500
Chlorobenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
Chlorodibromomethane	BDL	0.50	mg/kg	8260B	08/06/02	500
Chloroethane	BDL	0.50	mg/kg	8260B	08/06/02	500
2-Chloroethyl vinyl ether	BDL	25.	mg/kg	8260B	08/06/02	500
Chloroform	BDL	2.5	mg/kg	8260B	08/06/02	500
Chloromethane	BDL	0.50	mg/kg	8260B	08/06/02	500
2-Chlorotoluene	BDL	0.50	mg/kg	8260B	08/06/02	500
4-Chlorotoluene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,2-Dibromo-3-Chloropropane	BDL	1.0	mg/kg	8260B	08/06/02	500
1,2-Dibromoethane	BDL	0.50	mg/kg	8260B	08/06/02	500
Dibromomethane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,2-Dichlorobenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,3-Dichlorobenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,4-Dichlorobenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
Dichlorodifluoromethane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,1-Dichloroethane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,2-Dichloroethane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,1-Dichloroethene	BDL	0.50	mg/kg	8260B	08/06/02	500
cis-1,2-Dichloroethene	BDL	0.50	mg/kg	8260B	08/06/02	500
trans-1,2-Dichloroethene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,2-Dichloropropane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,1-Dichloropropene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,3-Dichloropropane	BDL	0.50	mg/kg	8260B	08/06/02	500
cis-1,3-Dichloropropene	BDL	0.50	mg/kg	8260B	08/06/02	500
trans-1,3-Dichloropropene	BDL	0.50	mg/kg	8260B	08/06/02	500
2,2-Dichloropropane	BDL	0.50	mg/kg	8260B	08/06/02	500

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 07, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-5 7 FT
Collected By : Matt Mitchell
Collection Date : 07/26/02 07:17

ESC Sample # : L85360-02
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.50	mg/kg	8260B	08/06/02	500
Ethylbenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
Hexachlorobutadiene	BDL	0.50	mg/kg	8260B	08/06/02	500
Isopropylbenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
p-Isopropyltoluene	0.83	0.50	mg/kg	8260B	08/06/02	500
2-Butanone (MEK)	BDL	25.	mg/kg	8260B	08/06/02	500
Methylene Chloride	BDL	2.5	mg/kg	8260B	08/06/02	500
4-Methyl-2-pentanone (MIBK)	BDL	25.	mg/kg	8260B	08/06/02	500
Methyl tert-butyl ether	BDL	0.50	mg/kg	8260B	08/06/02	500
Naphthalene	BDL	2.5	mg/kg	8260B	08/06/02	500
n-Propylbenzene	0.75	0.50	mg/kg	8260B	08/06/02	500
Styrene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,1,1,2-Tetrachloroethane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,1,2,2-Tetrachloroethane	BDL	0.50	mg/kg	8260B	08/06/02	500
Tetrachloroethene	BDL	0.50	mg/kg	8260B	08/06/02	500
Toluene	BDL	2.5	mg/kg	8260B	08/06/02	500
1,2,3-Trichlorobenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,2,4-Trichlorobenzene	BDL	0.50	mg/kg	8260B	08/06/02	500
1,1,1-Trichloroethane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,1,2-Trichloroethane	BDL	0.50	mg/kg	8260B	08/06/02	500
Trichloroethene	BDL	0.50	mg/kg	8260B	08/06/02	500
Trichlorofluoromethane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,2,3-Trichloropropane	BDL	0.50	mg/kg	8260B	08/06/02	500
1,2,4-Trimethylbenzene	5.5	0.50	mg/kg	8260B	08/06/02	500
1,3,5-Trimethylbenzene	3.4	0.50	mg/kg	8260B	08/06/02	500
Vinyl chloride	BDL	0.50	mg/kg	8260B	08/06/02	500
Xylenes, Total	BDL	1.5	mg/kg	8260B	08/06/02	500
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/06/02	500
Dibromofluoromethane	96.		% Rec.	8260B	08/06/02	500
4-Bromofluorobenzene	110		% Rec.	8260B	08/06/02	500

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 07, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-13 4 FT
Collected By : Matt Mitchell
Collection Date : 07/25/02 18:11

ESC Sample # : L85360-03
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	12.	mg/kg	8260B	08/06/02	250
Acrolein	BDL	12.	mg/kg	8260B	08/06/02	250
Acrylonitrile	BDL	12.	mg/kg	8260B	08/06/02	250
Benzene	BDL	0.25	mg/kg	8260B	08/06/02	250
Bromobenzene	BDL	0.25	mg/kg	8260B	08/06/02	250
Bromodichloromethane	BDL	0.25	mg/kg	8260B	08/06/02	250
Bromoform	BDL	0.25	mg/kg	8260B	08/06/02	250
Bromomethane	BDL	0.25	mg/kg	8260B	08/06/02	250
n-Butylbenzene	0.83	0.25	mg/kg	8260B	08/06/02	250
sec-Butylbenzene	0.28	0.25	mg/kg	8260B	08/06/02	250
tert-Butylbenzene	BDL	0.25	mg/kg	8260B	08/06/02	250
Carbon tetrachloride	BDL	0.25	mg/kg	8260B	08/06/02	250
Chlorobenzene	BDL	0.25	mg/kg	8260B	08/06/02	250
Chlorodibromomethane	BDL	0.25	mg/kg	8260B	08/06/02	250
Chloroethane	BDL	0.25	mg/kg	8260B	08/06/02	250
2-Chloroethyl vinyl ether	BDL	12.	mg/kg	8260B	08/06/02	250
Chloroform	BDL	1.2	mg/kg	8260B	08/06/02	250
Chloromethane	BDL	0.25	mg/kg	8260B	08/06/02	250
2-Chlorotoluene	BDL	0.25	mg/kg	8260B	08/06/02	250
4-Chlorotoluene	BDL	0.25	mg/kg	8260B	08/06/02	250
1,2-Dibromo-3-Chloropropane	BDL	0.50	mg/kg	8260B	08/06/02	250
1,2-Dibromoethane	BDL	0.25	mg/kg	8260B	08/06/02	250
Dibromomethane	BDL	0.25	mg/kg	8260B	08/06/02	250
1,2-Dichlorobenzene	BDL	0.25	mg/kg	8260B	08/06/02	250
1,3-Dichlorobenzene	BDL	0.25	mg/kg	8260B	08/06/02	250
1,4-Dichlorobenzene	BDL	0.25	mg/kg	8260B	08/06/02	250
Dichlorodifluoromethane	BDL	0.25	mg/kg	8260B	08/06/02	250
1,1-Dichloroethane	BDL	0.25	mg/kg	8260B	08/06/02	250
1,2-Dichloroethane	BDL	0.25	mg/kg	8260B	08/06/02	250
1,1-Dichloroethene	BDL	0.25	mg/kg	8260B	08/06/02	250
cis-1,2-Dichloroethene	BDL	0.25	mg/kg	8260B	08/06/02	250
trans-1,2-Dichloroethene	BDL	0.25	mg/kg	8260B	08/06/02	250
1,2-Dichloropropane	BDL	0.25	mg/kg	8260B	08/06/02	250
1,1-Dichloropropene	BDL	0.25	mg/kg	8260B	08/06/02	250
1,3-Dichloropropane	BDL	0.25	mg/kg	8260B	08/06/02	250
cis-1,3-Dichloropropene	BDL	0.25	mg/kg	8260B	08/06/02	250
trans-1,3-Dichloropropene	BDL	0.25	mg/kg	8260B	08/06/02	250
2,2-Dichloropropane	BDL	0.25	mg/kg	8260B	08/06/02	250

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 07, 2002

Date Received : July 27, 2002
Description : DCI - Keystone
Sample ID : GP-13 4 FT
Collected By : Matt Mitchell
Collection Date : 07/25/02 18:11

ESC Sample # : L85360-03
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.25	mg/kg	8260B	08/06/02	250
Ethylbenzene	BDL	0.25	mg/kg	8260B	08/06/02	250
Hexachlorobutadiene	BDL	0.25	mg/kg	8260B	08/06/02	250
Isopropylbenzene	BDL	0.25	mg/kg	8260B	08/06/02	250
p-Isopropyltoluene	0.26	0.25	mg/kg	8260B	08/06/02	250
2-Butanone (MEK)	BDL	12.	mg/kg	8260B	08/06/02	250
Methylene Chloride	BDL	1.2	mg/kg	8260B	08/06/02	250
4-Methyl-2-pentanone (MIBK)	BDL	12.	mg/kg	8260B	08/06/02	250
Methyl tert-butyl ether	BDL	0.25	mg/kg	8260B	08/06/02	250
Naphthalene	2.0	1.2	mg/kg	8260B	08/06/02	250
n-Propylbenzene	BDL	0.25	mg/kg	8260B	08/06/02	250
Styrene	BDL	0.25	mg/kg	8260B	08/06/02	250
1,1,1,2-Tetrachloroethane	BDL	0.25	mg/kg	8260B	08/06/02	250
1,1,2,2-Tetrachloroethane	BDL	0.25	mg/kg	8260B	08/06/02	250
Tetrachloroethene	0.33	0.25	mg/kg	8260B	08/06/02	250
Toluene	BDL	1.2	mg/kg	8260B	08/06/02	250
1,2,3-Trichlorobenzene	BDL	0.25	mg/kg	8260B	08/06/02	250
1,2,4-Trichlorobenzene	BDL	0.25	mg/kg	8260B	08/06/02	250
1,1,1-Trichloroethane	BDL	0.25	mg/kg	8260B	08/06/02	250
1,1,2-Trichloroethane	BDL	0.25	mg/kg	8260B	08/06/02	250
Trichloroethene	BDL	0.25	mg/kg	8260B	08/06/02	250
Trichlorofluoromethane	BDL	0.25	mg/kg	8260B	08/06/02	250
1,2,3-Trichloropropane	BDL	0.25	mg/kg	8260B	08/06/02	250
1,2,4-Trimethylbenzene	0.87	0.25	mg/kg	8260B	08/06/02	250
1,3,5-Trimethylbenzene	0.44	0.25	mg/kg	8260B	08/06/02	250
Vinyl chloride	BDL	0.25	mg/kg	8260B	08/06/02	250
Xylenes, Total	BDL	0.75	mg/kg	8260B	08/06/02	250
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/06/02	250
Dibromofluoromethane	86.		% Rec.	8260B	08/06/02	250
4-Bromofluorobenzene	98.		% Rec.	8260B	08/06/02	250

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L85360-01	Acetone	F
	Acrolein	FJ4
	Acrylonitrile	F
	Benzene	F
	Bromobenzene	F
	Bromodichloromethane	F
	Bromoform	F
	Bromomethane	F
	n-Butylbenzene	FJ4
	sec-Butylbenzene	F
	tert-Butylbenzene	F
	Carbon tetrachloride	F
	Chlorobenzene	F
	Chlorodibromomethane	F
	Chloroethane	F
	2-Chloroethyl vinyl ether	F
	Chloroform	F
	Chloromethane	F
	2-Chlorotoluene	F
	4-Chlorotoluene	F
	1,2-Dibromo-3-Chloropropane	F
	1,2-Dibromoethane	F
	Dibromomethane	F
	1,2-Dichlorobenzene	F
	1,3-Dichlorobenzene	F
	1,4-Dichlorobenzene	F
	Dichlorodifluoromethane	F
	1,1-Dichloroethane	F
	1,2-Dichloroethane	F
	1,1-Dichloroethene	F
	cis-1,2-Dichloroethene	F
	trans-1,2-Dichloroethene	F
	1,2-Dichloropropane	F
	1,1-Dichloropropene	F
	1,3-Dichloropropane	F
	cis-1,3-Dichloropropene	F
	trans-1,3-Dichloropropene	F
	2,2-Dichloropropane	F
	Di-isopropyl ether	F
	Ethylbenzene	F
	Hexachlorobutadiene	F
	Isopropylbenzene	F
	p-Isopropyltoluene	FJ4
	2-Butanone (MEK)	F
	Methylene Chloride	F
	4-Methyl-2-pentanone (MIBK)	F
	Methyl tert-butyl ether	F
	Naphthalene	F
	n-Propylbenzene	F
	Styrene	F
	1,1,1,2-Tetrachloroethane	F
	1,1,2,2-Tetrachloroethane	F
	Tetrachloroethene	F
	Toluene	F
	1,2,3-Trichlorobenzene	F
	1,2,4-Trichlorobenzene	F
	1,1,1-Trichloroethane	F
	1,1,2-Trichloroethane	F
	Trichloroethene	F
	Trichlorofluoromethane	F
	1,2,3-Trichloropropane	F
	1,2,4-Trimethylbenzene	FJ4
	1,3,5-Trimethylbenzene	F
	Vinyl chloride	F
	Xylenes, Total	F
L85360-02	Acetone	F
	Acrolein	FJ4
	Acrylonitrile	F
	Benzene	F

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	Bromobenzene	F
	Bromodichloromethane	F
	Bromoform	F
	Bromomethane	F
	n-Butylbenzene	FJ4
	sec-Butylbenzene	F
	tert-Butylbenzene	F
	Carbon tetrachloride	F
	Chlorobenzene	F
	Chlorodibromomethane	F
	Chloroethane	F
	2-Chloroethyl vinyl ether	F
	Chloroform	F
	Chloromethane	F
	2-Chlorotoluene	F
	4-Chlorotoluene	F
	1,2-Dibromo-3-Chloropropane	F
	1,2-Dibromoethane	F
	Dibromomethane	F
	1,2-Dichlorobenzene	F
	1,3-Dichlorobenzene	F
	1,4-Dichlorobenzene	F
	Dichlorodifluoromethane	F
	1,1-Dichloroethane	F
	1,2-Dichloroethane	F
	1,1-Dichloroethene	F
	cis-1,2-Dichloroethene	F
	trans-1,2-Dichloroethene	F
	1,2-Dichloropropane	F
	1,1-Dichloropropene	F
	1,3-Dichloropropane	F
	cis-1,3-Dichloropropene	F
	trans-1,3-Dichloropropene	F
	2,2-Dichloropropane	F
	Di-isopropyl ether	F
	Ethylbenzene	F
	Hexachlorobutadiene	F
	Isopropylbenzene	F
	p-Isopropyltoluene	FJ4
	2-Butanone (MEK)	F
	Methylene Chloride	F
	4-Methyl-2-pentanone (MIBK)	F
	Methyl tert-butyl ether	F
	Naphthalene	F
	n-Propylbenzene	F
	Styrene	F
	1,1,1,2-Tetrachloroethane	F
	1,1,2,2-Tetrachloroethane	F
	Tetrachloroethene	F
	Toluene	F
	1,2,3-Trichlorobenzene	F
	1,2,4-Trichlorobenzene	F
	1,1,1-Trichloroethane	F
	1,1,2-Trichloroethane	F
	Trichloroethene	F
	Trichlorofluoromethane	F
	1,2,3-Trichloropropane	F
	1,2,4-Trimethylbenzene	FJ4
	1,3,5-Trimethylbenzene	F
	Vinyl chloride	F
	Xylenes, Total	F
L85360-03	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FHJ4

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FH
	2-Chloroethyl vinyl ether	FH
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FHJ4
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FH
	1,2,4-Trichlorobenzene	FH
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FHJ4
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
F	SRN (EPA) - Diluted: The original sample was diluted due to high amounts of one or more target analytes. All associated method analytes will be subject to an elevated detection limit relative to the dilution factor.
H	RIN(EPA)-Re-Analyzed: The indicated analytical results were generated from a reinjection of the same sample extract or aliquot.
J4	The associated batch QC did not successfully meet the established quality control criteria for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

URS Corporation - Cincinnati

36 East 7th Street Suite 2300
Cincinnati,OH 45202

All billing information:

Analysis/Container/Preservative

Chain of Custody
Page 2 of 5

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. William Eckhoff
Email: william_eckhoff@urscorp.co
Project Description: DCI - Keystone
City/State Collected: Indianapolis IN
Phone: (513) 651-3440
FAX: (513) 651-3452
Client Project #: 022 30351-~~013~~-121
Lab Project #: DAMESOH-30351013121
Collected by (print): Matt Mitchell
Site/Facility ID#:
P.O.#:
Collected by (signature): Matt Mitchell
Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%

Date Results Needed
Email? ___No X Yes
FAX? No Yes

CoCode: DAMESOH (lab use only)
Template/Prelogin: T7078 / P61408
Cooler #:
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TOC 4ozClr-NoPres	~~V8260 2ozClr-NoPres~~ Archive	V8260 40mlAmb-HCl	V8260 2oz clr-No Pres				Remarks/Contaminant	Sample # (lab only)
GP-6 (2')	Grab	SS	2'	7/24/02	1521	1		X		X					~~L62321-07~~
~~GP-6 (8')~~	Grab	SS	8'	7/24/02	1538	1		X							~~P67316-08~~
~~GP-6 (21')~~	Grab	SS	21'	7/24/02	1651	1		X							~~09~~
~~GP-6 (22')~~	Grab	SS	22'	7/24/02	1652	1		X							~~10~~
GP-7 (16')	Grab	SS	16'	7/26/02	1035	1		X		X					~~04~~
GP-7 (21')	Grab	SS	21'	7/26/02	1055	1		X							L62316-08
GP-7 (23')	Grab	SS	(23')	7/26/02	1057	1		X							09
GP-8 (2')	Grab	SS	2'	7/26/02	1305	1		X		X					~~06~~
GP-8 (14')	Grab	SS	14'	7/26/02	1325	1		X						L85360-01	10

L4

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: Level 4 QC Data Package!

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Matt Mitchell	7/26/02	1530	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Jason Estes

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐
Temp: 3°C Bottles Received: 38
Date: 7-27-02 Time: 10:00
Condition: (lab use only) OK
pH Checked: NCF:

URS Corporation - Cincinnati

36 East 7th Street Suite 2300
Cincinnati,OH 45202

A[redacted] billing [redacted]nation:

Analysis/Container/Preservative

Chain of Custody
Page 3 of 4

Prepared by:
ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (800) 767-5859
FAX (615) 758-5859

Report to: Mr. William Eckhoff

Email: william_eckhoff@urscorp.co

Project Description: DCI - Keystone

City/State Collected: Indianapolis IN

Phone: (513) 651-3440
FAX: (513) 651-3452

Client Project #: 022 30351-013-121

Lab Project #: DAMESOH-30351013121

Collected by (print): Matt Mitchell

Site/Facility ID#:

P.O.#:

Collected by (signature): [signature]

Packed on Ice N Y X

Rush? (Lab MUST Be Notified)
___Same Day 200%
___ Next Day. 100%
___ Two Day 50%

Date Results Needed

Email? __No X Yes
FAX? __No __Yes

CoCode: DAMESOH (lab use only)
Template/Prelogin: T7078 / P61408
Cooler #:
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TOC 4ozClr-NoPres	~~V8260 2ozClr-NoPres~~ Archive	V8260 40ml Amb-HCl	V8260 2oz Clr-NoPres				Remarks/Contaminant	Sample # (lab only)
~~GP-6 (2')~~	Grab	SS	2'	7/24/02	1521	1		~~X~~		X					~~L84721-06~~
GP-5 (7')	↓	SS	7'	7/26/02	0717	1		X						L85360-02	2Pr2316-11
GP-5 (22')		SS	22'	7/26/02	0930	1		X							12
GP-5 (12')		SS	12'	7/26/02	0733	1		X							13
GP-5 (15')		SS	15'	7/26/02	0741	1		~~X~~		X					~~14~~
GP-13 (1')		SS	1'	7/25/02	1740	1		~~X~~		X					~~15~~
GP-13 (4')		SS	4'	7/25/02	1811	1		X						03	16
GP-13 (22')		SS	22'	7/25/02	1851	1		X							17
	↓	SS				1		X							18

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: Level 4 QC Data Package

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
[signature]	7/26/02	1530	[signature]
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐

Temp: 3°C Bottles Received: 38

Date: 7-27-02 Time: 10:00

Condition: (lab use only) OK

pH Checked: NCF

L85360

Lacy Felts

From: Tom Mellette
Sent: Monday, August 05, 2002 4:34 PM
To: Login
Cc: 'william_eckhoff@urscorp.com'
Subject: *DAMESOH* changes to be made

Importance: High

Login please make changes to these samples. Please note hold time issues on samples collected 7/25 and 26 and log for RUSH 2 dat TAT.

—Original Message—
From: William_Eckhoff@URSCorp.com [SMTP:William_Eckhoff@URSCorp.com]
Sent: Monday, August 05, 2002 4:17 PM
To: mellettet@envsci.com
Cc: Dennis_Connair@URSCorp.com
Subject: Request for modification to the list of soil samples to be analyzed - Tuchman Keystone

Tom,

As discussed earlier today, I am requesting that the following soil samples BE REMOVED from the login list and NOT BE ANALYZED:

L85120-09 GP-19 (24) 7/30/02 18:13
L85328-11 GP-3 (1) 8/02/02 07:45

I am requesting that the following soil samples that were sent to ESC under an archive listing BE ANALYZED for SW-846 Method 8260B:

Shipped on 7/26/02 and received on 7/27/02

GP-13 (4') on 7/25/02 at 18:11
GP-5 (7') on 7/26/02 at 07:17
GP-8 (14') on 7/26/02 at 13:25

Shipped on 7/31/02 and received on 8/1/02

GP-1 (12') on 7/29/02 at 18:51
GP-14 (24') on 7/29/02 at 10:18
GP-14 (25') on 7/29/02 at 10:30
GP-15 (3') on 7/29/02 at 12:51
GP-15 (11') on 7/29/02 at 13:11
GP-15 (26') on 7/29/02 at 14:10
GP-16 (3') on 7/30/02 at 09:40
GP-17 (4') on 7/30/02 at 07:51
GP-18 (24') on 7/31/02 at 09:42

Shipped on 8/02/02 and received on 8/3/02

GP-3 (7') on 8/2/02 at 08:15
GP-12 (7') on 8/1/02 at 08:11
GP-12 (24') on 8/1/02 at 08:53

If there are any questions, please feel free to contact myself at (513) 651-3440.

Bill Eckhoff

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(615) 758-5858
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-1 3FT
Collected By :
Collection Date : 07/29/02 10:07

ESC Sample # : L85120-01
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	2.5	mg/kg	8260B	08/06/02	50
Acrolein	BDL	2.5	mg/kg	8260B	08/06/02	50
Acrylonitrile	BDL	2.5	mg/kg	8260B	08/06/02	50
Benzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromodichloromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromoform	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromomethane	BDL	0.050	mg/kg	8260B	08/06/02	50
n-Butylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
sec-Butylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
tert-Butylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Carbon tetrachloride	BDL	0.050	mg/kg	8260B	08/06/02	50
Chlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Chlorodibromomethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Chloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
2-Chloroethyl vinyl ether	BDL	2.5	mg/kg	8260B	08/06/02	50
Chloroform	BDL	0.25	mg/kg	8260B	08/06/02	50
Chloromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
2-Chlorotoluene	BDL	0.050	mg/kg	8260B	08/06/02	50
4-Chlorotoluene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dibromo-3-Chloropropane	BDL	0.10	mg/kg	8260B	08/06/02	50
1,2-Dibromoethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Dibromomethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,3-Dichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,4-Dichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Dichlorodifluoromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1-Dichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1-Dichloroethene	BDL	0.050	mg/kg	8260B	08/06/02	50
cis-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	08/06/02	50
trans-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1-Dichloropropene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,3-Dichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50
cis-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	08/06/02	50
trans-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	08/06/02	50
2,2-Dichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-1 3FT
Collected By :
Collection Date : 07/29/02 10:07

ESC Sample # : L85120-01
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.050	mg/kg	8260B	08/06/02	50
Ethylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Hexachlorobutadiene	BDL	0.050	mg/kg	8260B	08/06/02	50
Isopropylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
p-Isopropyltoluene	BDL	0.050	mg/kg	8260B	08/06/02	50
2-Butanone (MEK)	BDL	2.5	mg/kg	8260B	08/06/02	50
Methylene Chloride	BDL	0.25	mg/kg	8260B	08/06/02	50
4-Methyl-2-pentanone (MIBK)	BDL	2.5	mg/kg	8260B	08/06/02	50
Methyl tert-butyl ether	BDL	0.050	mg/kg	8260B	08/06/02	50
Naphthalene	BDL	0.25	mg/kg	8260B	08/06/02	50
n-Propylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Styrene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,1,2-Tetrachloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,2,2-Tetrachloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Tetrachloroethene	1.7	0.050	mg/kg	8260B	08/06/02	50
Toluene	BDL	0.25	mg/kg	8260B	08/06/02	50
1,2,3-Trichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2,4-Trichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,1-Trichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,2-Trichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Trichloroethene	0.11	0.050	mg/kg	8260B	08/06/02	50
Trichlorofluoromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2,3-Trichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2,4-Trimethylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,3,5-Trimethylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Vinyl chloride	BDL	0.050	mg/kg	8260B	08/06/02	50
Xylenes, Total	BDL	0.15	mg/kg	8260B	08/06/02	50
Surrogate Recovery						
Toluene-d8	94.		% Rec.	8260B	08/06/02	50
Dibromofluoromethane	97.		% Rec.	8260B	08/06/02	50
4-Bromofluorobenzene	100		% Rec.	8260B	08/06/02	50

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-9 3FT
Collected By :
Collection Date : 07/29/02 15:11

ESC Sample # : L85120-02
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	10.	mg/kg	8260B	08/07/02	200
Acrolein	BDL	10.	mg/kg	8260B	08/07/02	200
Acrylonitrile	BDL	10.	mg/kg	8260B	08/07/02	200
Benzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Bromobenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Bromodichloromethane	BDL	0.20	mg/kg	8260B	08/07/02	200
Bromoform	BDL	0.20	mg/kg	8260B	08/07/02	200
Bromomethane	BDL	0.20	mg/kg	8260B	08/07/02	200
n-Butylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
sec-Butylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
tert-Butylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Carbon tetrachloride	BDL	0.20	mg/kg	8260B	08/07/02	200
Chlorobenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Chlorodibromomethane	BDL	0.20	mg/kg	8260B	08/07/02	200
Chloroethane	BDL	0.20	mg/kg	8260B	08/07/02	200
2-Chloroethyl vinyl ether	BDL	10.	mg/kg	8260B	08/07/02	200
Chloroform	BDL	1.0	mg/kg	8260B	08/07/02	200
Chloromethane	BDL	0.20	mg/kg	8260B	08/07/02	200
2-Chlorotoluene	BDL	0.20	mg/kg	8260B	08/07/02	200
4-Chlorotoluene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,2-Dibromo-3-Chloropropane	BDL	0.40	mg/kg	8260B	08/07/02	200
1,2-Dibromoethane	BDL	0.20	mg/kg	8260B	08/07/02	200
Dibromomethane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,2-Dichlorobenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,3-Dichlorobenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,4-Dichlorobenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Dichlorodifluoromethane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,1-Dichloroethane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,2-Dichloroethane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,1-Dichloroethene	BDL	0.20	mg/kg	8260B	08/07/02	200
cis-1,2-Dichloroethene	BDL	0.20	mg/kg	8260B	08/07/02	200
trans-1,2-Dichloroethene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,2-Dichloropropane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,1-Dichloropropene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,3-Dichloropropane	BDL	0.20	mg/kg	8260B	08/07/02	200
cis-1,3-Dichloropropene	BDL	0.20	mg/kg	8260B	08/07/02	200
trans-1,3-Dichloropropene	BDL	0.20	mg/kg	8260B	08/07/02	200
2,2-Dichloropropane	BDL	0.20	mg/kg	8260B	08/07/02	200

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-9 3FT
Collected By :
Collection Date : 07/29/02 15:11

ESC Sample # : L85120-02
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.20	mg/kg	8260B	08/07/02	200
Ethylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Hexachlorobutadiene	BDL	0.20	mg/kg	8260B	08/07/02	200
Isopropylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
p-Isopropyltoluene	BDL	0.20	mg/kg	8260B	08/07/02	200
2-Butanone (MEK)	BDL	10.	mg/kg	8260B	08/07/02	200
Methylene Chloride	BDL	1.0	mg/kg	8260B	08/07/02	200
4-Methyl-2-pentanone (MIBK)	BDL	10.	mg/kg	8260B	08/07/02	200
Methyl tert-butyl ether	BDL	0.20	mg/kg	8260B	08/07/02	200
Naphthalene	BDL	1.0	mg/kg	8260B	08/07/02	200
n-Propylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Styrene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,1,1,2-Tetrachloroethane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,1,2,2-Tetrachloroethane	BDL	0.20	mg/kg	8260B	08/07/02	200
Tetrachloroethene	9.2	0.20	mg/kg	8260B	08/07/02	200
Toluene	BDL	1.0	mg/kg	8260B	08/07/02	200
1,2,3-Trichlorobenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,2,4-Trichlorobenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,1,1-Trichloroethane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,1,2-Trichloroethane	BDL	0.20	mg/kg	8260B	08/07/02	200
Trichloroethene	BDL	0.20	mg/kg	8260B	08/07/02	200
Trichlorofluoromethane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,2,3-Trichloropropane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,2,4-Trimethylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,3,5-Trimethylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Vinyl chloride	BDL	0.20	mg/kg	8260B	08/07/02	200
Xylenes, Total	BDL	0.60	mg/kg	8260B	08/07/02	200
Surrogate Recovery						
Toluene-d8	94.		% Rec.	8260B	08/07/02	200
Dibromofluoromethane	100		% Rec.	8260B	08/07/02	200
4-Bromofluorobenzene	95.		% Rec.	8260B	08/07/02	200

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-11 12FT
Collected By :
Collection Date : 07/31/02 16:42

ESC Sample # : L85120-03
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	2.5	mg/kg	8260B	08/06/02	50
Acrolein	BDL	2.5	mg/kg	8260B	08/06/02	50
Acrylonitrile	BDL	2.5	mg/kg	8260B	08/06/02	50
Benzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromodichloromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromoform	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromomethane	BDL	0.050	mg/kg	8260B	08/06/02	50
n-Butylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
sec-Butylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
tert-Butylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Carbon tetrachloride	BDL	0.050	mg/kg	8260B	08/06/02	50
Chlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Chlorodibromomethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Chloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
2-Chloroethyl vinyl ether	BDL	2.5	mg/kg	8260B	08/06/02	50
Chloroform	BDL	0.25	mg/kg	8260B	08/06/02	50
Chloromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
2-Chlorotoluene	BDL	0.050	mg/kg	8260B	08/06/02	50
4-Chlorotoluene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dibromo-3-Chloropropane	BDL	0.10	mg/kg	8260B	08/06/02	50
1,2-Dibromoethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Dibromomethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,3-Dichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,4-Dichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Dichlorodifluoromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1-Dichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1-Dichloroethene	BDL	0.050	mg/kg	8260B	08/06/02	50
cis-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	08/06/02	50
trans-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1-Dichloropropene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,3-Dichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50
cis-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	08/06/02	50
trans-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	08/06/02	50
2,2-Dichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-11 12FT
Collected By :
Collection Date : 07/31/02 16:42

ESC Sample # : L85120-03
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.050	mg/kg	8260B	08/06/02	50
Ethylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Hexachlorobutadiene	BDL	0.050	mg/kg	8260B	08/06/02	50
Isopropylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
p-Isopropyltoluene	BDL	0.050	mg/kg	8260B	08/06/02	50
2-Butanone (MEK)	BDL	2.5	mg/kg	8260B	08/06/02	50
Methylene Chloride	BDL	0.25	mg/kg	8260B	08/06/02	50
4-Methyl-2-pentanone (MIBK)	BDL	2.5	mg/kg	8260B	08/06/02	50
Methyl tert-butyl ether	BDL	0.050	mg/kg	8260B	08/06/02	50
Naphthalene	BDL	0.25	mg/kg	8260B	08/06/02	50
n-Propylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Styrene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,1,2-Tetrachloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,2,2-Tetrachloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Tetrachloroethene	1.4	0.050	mg/kg	8260B	08/06/02	50
Toluene	BDL	0.25	mg/kg	8260B	08/06/02	50
1,2,3-Trichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2,4-Trichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,1-Trichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,2-Trichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Trichloroethene	BDL	0.050	mg/kg	8260B	08/06/02	50
Trichlorofluoromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2,3-Trichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2,4-Trimethylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,3,5-Trimethylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Vinyl chloride	BDL	0.050	mg/kg	8260B	08/06/02	50
Xylenes, Total	BDL	0.15	mg/kg	8260B	08/06/02	50
Surrogate Recovery						
Toluene-d8	95.		% Rec.	8260B	08/06/02	50
Dibromofluoromethane	97.		% Rec.	8260B	08/06/02	50
4-Bromofluorobenzene	100		% Rec.	8260B	08/06/02	50

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-14 12FT
Collected By :
Collection Date : 07/29/02 09:43

ESC Sample # : L85120-04
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	10.	mg/kg	8260B	08/06/02	200
Acrolein	BDL	10.	mg/kg	8260B	08/06/02	200
Acrylonitrile	BDL	10.	mg/kg	8260B	08/06/02	200
Benzene	BDL	0.20	mg/kg	8260B	08/06/02	200
Bromobenzene	BDL	0.20	mg/kg	8260B	08/06/02	200
Bromodichloromethane	BDL	0.20	mg/kg	8260B	08/06/02	200
Bromoform	BDL	0.20	mg/kg	8260B	08/06/02	200
Bromomethane	BDL	0.20	mg/kg	8260B	08/06/02	200
n-Butylbenzene	BDL	0.20	mg/kg	8260B	08/06/02	200
sec-Butylbenzene	BDL	0.20	mg/kg	8260B	08/06/02	200
tert-Butylbenzene	BDL	0.20	mg/kg	8260B	08/06/02	200
Carbon tetrachloride	BDL	0.20	mg/kg	8260B	08/06/02	200
Chlorobenzene	BDL	0.20	mg/kg	8260B	08/06/02	200
Chlorodibromomethane	BDL	0.20	mg/kg	8260B	08/06/02	200
Chloroethane	BDL	0.20	mg/kg	8260B	08/06/02	200
2-Chloroethyl vinyl ether	BDL	10.	mg/kg	8260B	08/06/02	200
Chloroform	BDL	1.0	mg/kg	8260B	08/06/02	200
Chloromethane	BDL	0.20	mg/kg	8260B	08/06/02	200
2-Chlorotoluene	BDL	0.20	mg/kg	8260B	08/06/02	200
4-Chlorotoluene	BDL	0.20	mg/kg	8260B	08/06/02	200
1,2-Dibromo-3-Chloropropane	BDL	0.40	mg/kg	8260B	08/06/02	200
1,2-Dibromoethane	BDL	0.20	mg/kg	8260B	08/06/02	200
Dibromomethane	BDL	0.20	mg/kg	8260B	08/06/02	200
1,2-Dichlorobenzene	BDL	0.20	mg/kg	8260B	08/06/02	200
1,3-Dichlorobenzene	BDL	0.20	mg/kg	8260B	08/06/02	200
1,4-Dichlorobenzene	BDL	0.20	mg/kg	8260B	08/06/02	200
Dichlorodifluoromethane	BDL	0.20	mg/kg	8260B	08/06/02	200
1,1-Dichloroethane	BDL	0.20	mg/kg	8260B	08/06/02	200
1,2-Dichloroethane	BDL	0.20	mg/kg	8260B	08/06/02	200
1,1-Dichloroethene	BDL	0.20	mg/kg	8260B	08/06/02	200
cis-1,2-Dichloroethene	BDL	0.20	mg/kg	8260B	08/06/02	200
trans-1,2-Dichloroethene	BDL	0.20	mg/kg	8260B	08/06/02	200
1,2-Dichloropropane	BDL	0.20	mg/kg	8260B	08/06/02	200
1,1-Dichloropropene	BDL	0.20	mg/kg	8260B	08/06/02	200
1,3-Dichloropropane	BDL	0.20	mg/kg	8260B	08/06/02	200
cis-1,3-Dichloropropene	BDL	0.20	mg/kg	8260B	08/06/02	200
trans-1,3-Dichloropropene	BDL	0.20	mg/kg	8260B	08/06/02	200
2,2-Dichloropropane	BDL	0.20	mg/kg	8260B	08/06/02	200

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-14 12FT
Collected By :
Collection Date : 07/29/02 09:43

ESC Sample # : L85120-04
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.20	mg/kg	8260B	08/06/02	200
Ethylbenzene	BDL	0.20	mg/kg	8260B	08/06/02	200
Hexachlorobutadiene	BDL	0.20	mg/kg	8260B	08/06/02	200
Isopropylbenzene	BDL	0.20	mg/kg	8260B	08/06/02	200
p-Isopropyltoluene	BDL	0.20	mg/kg	8260B	08/06/02	200
2-Butanone (MEK)	BDL	10.	mg/kg	8260B	08/06/02	200
Methylene Chloride	BDL	1.0	mg/kg	8260B	08/06/02	200
4-Methyl-2-pentanone (MIBK)	BDL	10.	mg/kg	8260B	08/06/02	200
Methyl tert-butyl ether	BDL	0.20	mg/kg	8260B	08/06/02	200
Naphthalene	BDL	1.0	mg/kg	8260B	08/06/02	200
n-Propylbenzene	BDL	0.20	mg/kg	8260B	08/06/02	200
Styrene	BDL	0.20	mg/kg	8260B	08/06/02	200
1,1,1,2-Tetrachloroethane	BDL	0.20	mg/kg	8260B	08/06/02	200
1,1,2,2-Tetrachloroethane	BDL	0.20	mg/kg	8260B	08/06/02	200
Tetrachloroethene	5.8	0.20	mg/kg	8260B	08/06/02	200
Toluene	BDL	1.0	mg/kg	8260B	08/06/02	200
1,2,3-Trichlorobenzene	BDL	0.20	mg/kg	8260B	08/06/02	200
1,2,4-Trichlorobenzene	BDL	0.20	mg/kg	8260B	08/06/02	200
1,1,1-Trichloroethane	BDL	0.20	mg/kg	8260B	08/06/02	200
1,1,2-Trichloroethane	BDL	0.20	mg/kg	8260B	08/06/02	200
Trichloroethene	BDL	0.20	mg/kg	8260B	08/06/02	200
Trichlorofluoromethane	BDL	0.20	mg/kg	8260B	08/06/02	200
1,2,3-Trichloropropane	BDL	0.20	mg/kg	8260B	08/06/02	200
1,2,4-Trimethylbenzene	BDL	0.20	mg/kg	8260B	08/06/02	200
1,3,5-Trimethylbenzene	BDL	0.20	mg/kg	8260B	08/06/02	200
Vinyl chloride	BDL	0.20	mg/kg	8260B	08/06/02	200
Xylenes, Total	BDL	0.60	mg/kg	8260B	08/06/02	200
Surrogate Recovery						
Toluene-d8	95.		% Rec.	8260B	08/06/02	200
Dibromofluoromethane	99.		% Rec.	8260B	08/06/02	200
4-Bromofluorobenzene	96.		% Rec.	8260B	08/06/02	200

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-15 25FT
Collected By :
Collection Date : 07/29/02 14:00

ESC Sample # : L85120-05
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	250	mg/kg	8260B	08/07/02	5000
Acrolein	BDL	250	mg/kg	8260B	08/07/02	5000
Acrylonitrile	BDL	250	mg/kg	8260B	08/07/02	5000
Benzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
Bromobenzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
Bromodichloromethane	BDL	5.0	mg/kg	8260B	08/07/02	5000
Bromoform	BDL	5.0	mg/kg	8260B	08/07/02	5000
Bromomethane	BDL	5.0	mg/kg	8260B	08/07/02	5000
n-Butylbenzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
sec-Butylbenzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
tert-Butylbenzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
Carbon tetrachloride	BDL	5.0	mg/kg	8260B	08/07/02	5000
Chlorobenzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
Chlorodibromomethane	BDL	5.0	mg/kg	8260B	08/07/02	5000
Chloroethane	BDL	5.0	mg/kg	8260B	08/07/02	5000
2-Chloroethyl vinyl ether	BDL	250	mg/kg	8260B	08/07/02	5000
Chloroform	BDL	25.	mg/kg	8260B	08/07/02	5000
Chloromethane	BDL	5.0	mg/kg	8260B	08/07/02	5000
2-Chlorotoluene	BDL	5.0	mg/kg	8260B	08/07/02	5000
4-Chlorotoluene	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,2-Dibromo-3-Chloropropane	BDL	10.	mg/kg	8260B	08/07/02	5000
1,2-Dibromoethane	BDL	5.0	mg/kg	8260B	08/07/02	5000
Dibromomethane	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,2-Dichlorobenzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,3-Dichlorobenzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,4-Dichlorobenzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
Dichlorodifluoromethane	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,1-Dichloroethane	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,2-Dichloroethane	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,1-Dichloroethene	BDL	5.0	mg/kg	8260B	08/07/02	5000
cis-1,2-Dichloroethene	BDL	5.0	mg/kg	8260B	08/07/02	5000
trans-1,2-Dichloroethene	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,2-Dichloropropane	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,1-Dichloropropene	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,3-Dichloropropane	BDL	5.0	mg/kg	8260B	08/07/02	5000
cis-1,3-Dichloropropene	BDL	5.0	mg/kg	8260B	08/07/02	5000
trans-1,3-Dichloropropene	BDL	5.0	mg/kg	8260B	08/07/02	5000
2,2-Dichloropropane	BDL	5.0	mg/kg	8260B	08/07/02	5000

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-15 25FT
Collected By :
Collection Date : 07/29/02 14:00

ESC Sample # : L85120-05
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	5.0	mg/kg	8260B	08/07/02	5000
Ethylbenzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
Hexachlorobutadiene	BDL	5.0	mg/kg	8260B	08/07/02	5000
Isopropylbenzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
p-Isopropyltoluene	BDL	5.0	mg/kg	8260B	08/07/02	5000
2-Butanone (MEK)	BDL	250	mg/kg	8260B	08/07/02	5000
Methylene Chloride	BDL	25.	mg/kg	8260B	08/07/02	5000
4-Methyl-2-pentanone (MIBK)	BDL	250	mg/kg	8260B	08/07/02	5000
Methyl tert-butyl ether	BDL	5.0	mg/kg	8260B	08/07/02	5000
Naphthalene	BDL	25.	mg/kg	8260B	08/07/02	5000
n-Propylbenzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
Styrene	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,1,1,2-Tetrachloroethane	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,1,2,2-Tetrachloroethane	BDL	5.0	mg/kg	8260B	08/07/02	5000
Tetrachloroethene	140	5.0	mg/kg	8260B	08/07/02	5000
Toluene	BDL	25.	mg/kg	8260B	08/07/02	5000
1,2,3-Trichlorobenzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,2,4-Trichlorobenzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,1,1-Trichloroethane	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,1,2-Trichloroethane	BDL	5.0	mg/kg	8260B	08/07/02	5000
Trichloroethene	BDL	5.0	mg/kg	8260B	08/07/02	5000
Trichlorofluoromethane	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,2,3-Trichloropropane	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,2,4-Trimethylbenzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
1,3,5-Trimethylbenzene	BDL	5.0	mg/kg	8260B	08/07/02	5000
Vinyl chloride	BDL	5.0	mg/kg	8260B	08/07/02	5000
Xylenes, Total	BDL	15.	mg/kg	8260B	08/07/02	5000
Surrogate Recovery						
Toluene-d8	93.		% Rec.	8260B	08/07/02	5000
Dibromofluoromethane	100		% Rec.	8260B	08/07/02	5000
4-Bromofluorobenzene	93.		% Rec.	8260B	08/07/02	5000

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-16 20FT
Collected By :
Collection Date : 07/30/02 10:23

ESC Sample # : L85120-06
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	2.5	mg/kg	8260B	08/06/02	50
Acrolein	BDL	2.5	mg/kg	8260B	08/06/02	50
Acrylonitrile	BDL	2.5	mg/kg	8260B	08/06/02	50
Benzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromodichloromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromoform	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromomethane	BDL	0.050	mg/kg	8260B	08/06/02	50
n-Butylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
sec-Butylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
tert-Butylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Carbon tetrachloride	BDL	0.050	mg/kg	8260B	08/06/02	50
Chlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Chlorodibromomethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Chloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
2-Chloroethyl vinyl ether	BDL	2.5	mg/kg	8260B	08/06/02	50
Chloroform	BDL	0.25	mg/kg	8260B	08/06/02	50
Chloromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
2-Chlorotoluene	BDL	0.050	mg/kg	8260B	08/06/02	50
4-Chlorotoluene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dibromo-3-Chloropropane	BDL	0.10	mg/kg	8260B	08/06/02	50
1,2-Dibromoethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Dibromomethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,3-Dichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,4-Dichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Dichlorodifluoromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1-Dichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1-Dichloroethene	BDL	0.050	mg/kg	8260B	08/06/02	50
cis-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	08/06/02	50
trans-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1-Dichloropropene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,3-Dichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50
cis-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	08/06/02	50
trans-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	08/06/02	50
2,2-Dichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-16 20FT
Collected By :
Collection Date : 07/30/02 10:23

ESC Sample # : L85120-06
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.050	mg/kg	8260B	08/06/02	50
Ethylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Hexachlorobutadiene	BDL	0.050	mg/kg	8260B	08/06/02	50
Isopropylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
p-Isopropyltoluene	BDL	0.050	mg/kg	8260B	08/06/02	50
2-Butanone (MEK)	BDL	2.5	mg/kg	8260B	08/06/02	50
Methylene Chloride	BDL	0.25	mg/kg	8260B	08/06/02	50
4-Methyl-2-pentanone (MIBK)	BDL	2.5	mg/kg	8260B	08/06/02	50
Methyl tert-butyl ether	BDL	0.050	mg/kg	8260B	08/06/02	50
Naphthalene	BDL	0.25	mg/kg	8260B	08/06/02	50
n-Propylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Styrene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,1,2-Tetrachloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,2,2-Tetrachloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Tetrachloroethene	2.0	0.050	mg/kg	8260B	08/06/02	50
Toluene	BDL	0.25	mg/kg	8260B	08/06/02	50
1,2,3-Trichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2,4-Trichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,1-Trichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,2-Trichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Trichloroethene	BDL	0.050	mg/kg	8260B	08/06/02	50
Trichlorofluoromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2,3-Trichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2,4-Trimethylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,3,5-Trimethylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Vinyl chloride	BDL	0.050	mg/kg	8260B	08/06/02	50
Xylenes, Total	BDL	0.15	mg/kg	8260B	08/06/02	50
Surrogate Recovery						
Toluene-d8	95.		% Rec.	8260B	08/06/02	50
Dibromofluoromethane	99.		% Rec.	8260B	08/06/02	50
4-Bromofluorobenzene	100		% Rec.	8260B	08/06/02	50

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-17 12FT
Collected By :
Collection Date : 07/30/02 08:12

ESC Sample # : L85120-07
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	10.	mg/kg	8260B	08/07/02	200
Acrolein	BDL	10.	mg/kg	8260B	08/07/02	200
Acrylonitrile	BDL	10.	mg/kg	8260B	08/07/02	200
Benzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Bromobenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Bromodichloromethane	BDL	0.20	mg/kg	8260B	08/07/02	200
Bromoform	BDL	0.20	mg/kg	8260B	08/07/02	200
Bromomethane	BDL	0.20	mg/kg	8260B	08/07/02	200
n-Butylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
sec-Butylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
tert-Butylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Carbon tetrachloride	BDL	0.20	mg/kg	8260B	08/07/02	200
Chlorobenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Chlorodibromomethane	BDL	0.20	mg/kg	8260B	08/07/02	200
Chloroethane	BDL	0.20	mg/kg	8260B	08/07/02	200
2-Chloroethyl vinyl ether	BDL	10.	mg/kg	8260B	08/07/02	200
Chloroform	BDL	1.0	mg/kg	8260B	08/07/02	200
Chloromethane	BDL	0.20	mg/kg	8260B	08/07/02	200
2-Chlorotoluene	BDL	0.20	mg/kg	8260B	08/07/02	200
4-Chlorotoluene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,2-Dibromo-3-Chloropropane	BDL	0.40	mg/kg	8260B	08/07/02	200
1,2-Dibromoethane	BDL	0.20	mg/kg	8260B	08/07/02	200
Dibromomethane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,2-Dichlorobenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,3-Dichlorobenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,4-Dichlorobenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Dichlorodifluoromethane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,1-Dichloroethane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,2-Dichloroethane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,1-Dichloroethene	BDL	0.20	mg/kg	8260B	08/07/02	200
cis-1,2-Dichloroethene	BDL	0.20	mg/kg	8260B	08/07/02	200
trans-1,2-Dichloroethene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,2-Dichloropropane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,1-Dichloropropene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,3-Dichloropropane	BDL	0.20	mg/kg	8260B	08/07/02	200
cis-1,3-Dichloropropene	BDL	0.20	mg/kg	8260B	08/07/02	200
trans-1,3-Dichloropropene	BDL	0.20	mg/kg	8260B	08/07/02	200
2,2-Dichloropropane	BDL	0.20	mg/kg	8260B	08/07/02	200

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-17 12FT
Collected By :
Collection Date : 07/30/02 08:12

ESC Sample # : L85120-07
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.20	mg/kg	8260B	08/07/02	200
Ethylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Hexachlorobutadiene	BDL	0.20	mg/kg	8260B	08/07/02	200
Isopropylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
p-Isopropyltoluene	BDL	0.20	mg/kg	8260B	08/07/02	200
2-Butanone (MEK)	BDL	10.	mg/kg	8260B	08/07/02	200
Methylene Chloride	BDL	1.0	mg/kg	8260B	08/07/02	200
4-Methyl-2-pentanone (MIBK)	BDL	10.	mg/kg	8260B	08/07/02	200
Methyl tert-butyl ether	BDL	0.20	mg/kg	8260B	08/07/02	200
Naphthalene	BDL	1.0	mg/kg	8260B	08/07/02	200
n-Propylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Styrene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,1,1,2-Tetrachloroethane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,1,2,2-Tetrachloroethane	BDL	0.20	mg/kg	8260B	08/07/02	200
Tetrachloroethene	7.2	0.20	mg/kg	8260B	08/07/02	200
Toluene	BDL	1.0	mg/kg	8260B	08/07/02	200
1,2,3-Trichlorobenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,2,4-Trichlorobenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,1,1-Trichloroethane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,1,2-Trichloroethane	BDL	0.20	mg/kg	8260B	08/07/02	200
Trichloroethene	BDL	0.20	mg/kg	8260B	08/07/02	200
Trichlorofluoromethane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,2,3-Trichloropropane	BDL	0.20	mg/kg	8260B	08/07/02	200
1,2,4-Trimethylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
1,3,5-Trimethylbenzene	BDL	0.20	mg/kg	8260B	08/07/02	200
Vinyl chloride	BDL	0.20	mg/kg	8260B	08/07/02	200
Xylenes, Total	BDL	0.60	mg/kg	8260B	08/07/02	200
Surrogate Recovery						
Toluene-d8	95.		% Rec.	8260B	08/07/02	200
Dibromofluoromethane	100		% Rec.	8260B	08/07/02	200
4-Bromofluorobenzene	93.		% Rec.	8260B	08/07/02	200

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-18 2FT
Collected By :
Collection Date : 07/31/02 08:20

ESC Sample # : L85120-08
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	12.	mg/kg	8260B	08/08/02	250
Acrolein	BDL	12.	mg/kg	8260B	08/08/02	250
Acrylonitrile	BDL	12.	mg/kg	8260B	08/08/02	250
Benzene	BDL	0.25	mg/kg	8260B	08/08/02	250
Bromobenzene	BDL	0.25	mg/kg	8260B	08/08/02	250
Bromodichloromethane	BDL	0.25	mg/kg	8260B	08/08/02	250
Bromoform	BDL	0.25	mg/kg	8260B	08/08/02	250
Bromomethane	BDL	0.25	mg/kg	8260B	08/08/02	250
n-Butylbenzene	BDL	0.25	mg/kg	8260B	08/08/02	250
sec-Butylbenzene	BDL	0.25	mg/kg	8260B	08/08/02	250
tert-Butylbenzene	BDL	0.25	mg/kg	8260B	08/08/02	250
Carbon tetrachloride	BDL	0.25	mg/kg	8260B	08/08/02	250
Chlorobenzene	BDL	0.25	mg/kg	8260B	08/08/02	250
Chlorodibromomethane	BDL	0.25	mg/kg	8260B	08/08/02	250
Chloroethane	BDL	0.25	mg/kg	8260B	08/08/02	250
2-Chloroethyl vinyl ether	BDL	12.	mg/kg	8260B	08/08/02	250
Chloroform	BDL	1.2	mg/kg	8260B	08/08/02	250
Chloromethane	BDL	0.25	mg/kg	8260B	08/08/02	250
2-Chlorotoluene	BDL	0.25	mg/kg	8260B	08/08/02	250
4-Chlorotoluene	BDL	0.25	mg/kg	8260B	08/08/02	250
1,2-Dibromo-3-Chloropropane	BDL	0.50	mg/kg	8260B	08/08/02	250
1,2-Dibromoethane	BDL	0.25	mg/kg	8260B	08/08/02	250
Dibromomethane	BDL	0.25	mg/kg	8260B	08/08/02	250
1,2-Dichlorobenzene	BDL	0.25	mg/kg	8260B	08/08/02	250
1,3-Dichlorobenzene	BDL	0.25	mg/kg	8260B	08/08/02	250
1,4-Dichlorobenzene	BDL	0.25	mg/kg	8260B	08/08/02	250
Dichlorodifluoromethane	BDL	0.25	mg/kg	8260B	08/08/02	250
1,1-Dichloroethane	BDL	0.25	mg/kg	8260B	08/08/02	250
1,2-Dichloroethane	BDL	0.25	mg/kg	8260B	08/08/02	250
1,1-Dichloroethene	BDL	0.25	mg/kg	8260B	08/08/02	250
cis-1,2-Dichloroethene	BDL	0.25	mg/kg	8260B	08/08/02	250
trans-1,2-Dichloroethene	BDL	0.25	mg/kg	8260B	08/08/02	250
1,2-Dichloropropane	BDL	0.25	mg/kg	8260B	08/08/02	250
1,1-Dichloropropene	BDL	0.25	mg/kg	8260B	08/08/02	250
1,3-Dichloropropane	BDL	0.25	mg/kg	8260B	08/08/02	250
cis-1,3-Dichloropropene	BDL	0.25	mg/kg	8260B	08/08/02	250
trans-1,3-Dichloropropene	BDL	0.25	mg/kg	8260B	08/08/02	250
2,2-Dichloropropane	BDL	0.25	mg/kg	8260B	08/08/02	250

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-18 2FT
Collected By :
Collection Date : 07/31/02 08:20

ESC Sample # : L85120-08
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.25	mg/kg	8260B	08/08/02	250
Ethylbenzene	BDL	0.25	mg/kg	8260B	08/08/02	250
Hexachlorobutadiene	BDL	0.25	mg/kg	8260B	08/08/02	250
Isopropylbenzene	BDL	0.25	mg/kg	8260B	08/08/02	250
p-Isopropyltoluene	BDL	0.25	mg/kg	8260B	08/08/02	250
2-Butanone (MEK)	BDL	12.	mg/kg	8260B	08/08/02	250
Methylene Chloride	BDL	1.2	mg/kg	8260B	08/08/02	250
4-Methyl-2-pentanone (MIBK)	BDL	12.	mg/kg	8260B	08/08/02	250
Methyl tert-butyl ether	BDL	0.25	mg/kg	8260B	08/08/02	250
Naphthalene	BDL	1.2	mg/kg	8260B	08/08/02	250
n-Propylbenzene	BDL	0.25	mg/kg	8260B	08/08/02	250
Styrene	BDL	0.25	mg/kg	8260B	08/08/02	250
1,1,1,2-Tetrachloroethane	BDL	0.25	mg/kg	8260B	08/08/02	250
1,1,2,2-Tetrachloroethane	BDL	0.25	mg/kg	8260B	08/08/02	250
Tetrachloroethene	10.	0.25	mg/kg	8260B	08/08/02	250
Toluene	BDL	1.2	mg/kg	8260B	08/08/02	250
1,2,3-Trichlorobenzene	BDL	0.25	mg/kg	8260B	08/08/02	250
1,2,4-Trichlorobenzene	BDL	0.25	mg/kg	8260B	08/08/02	250
1,1,1-Trichloroethane	BDL	0.25	mg/kg	8260B	08/08/02	250
1,1,2-Trichloroethane	BDL	0.25	mg/kg	8260B	08/08/02	250
Trichloroethene	BDL	0.25	mg/kg	8260B	08/08/02	250
Trichlorofluoromethane	BDL	0.25	mg/kg	8260B	08/08/02	250
1,2,3-Trichloropropane	BDL	0.25	mg/kg	8260B	08/08/02	250
1,2,4-Trimethylbenzene	BDL	0.25	mg/kg	8260B	08/08/02	250
1,3,5-Trimethylbenzene	BDL	0.25	mg/kg	8260B	08/08/02	250
Vinyl chloride	BDL	0.25	mg/kg	8260B	08/08/02	250
Xylenes, Total	BDL	0.75	mg/kg	8260B	08/08/02	250
Surrogate Recovery						
Toluene-d8	99.		% Rec.	8260B	08/08/02	250
Dibromofluoromethane	110		% Rec.	8260B	08/08/02	250
4-Bromofluorobenzene	93.		% Rec.	8260B	08/08/02	250

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-20 2FT
Collected By :
Collection Date : 07/30/02 11:31

ESC Sample # : L85120-10
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	mg/kg	8260B	08/07/02	1000
Acrolein	BDL	50.	mg/kg	8260B	08/07/02	1000
Acrylonitrile	BDL	50.	mg/kg	8260B	08/07/02	1000
Benzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
Bromobenzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
Bromodichloromethane	BDL	1.0	mg/kg	8260B	08/07/02	1000
Bromoform	BDL	1.0	mg/kg	8260B	08/07/02	1000
Bromomethane	BDL	1.0	mg/kg	8260B	08/07/02	1000
n-Butylbenzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
sec-Butylbenzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
tert-Butylbenzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
Carbon tetrachloride	BDL	1.0	mg/kg	8260B	08/07/02	1000
Chlorobenzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
Chlorodibromomethane	BDL	1.0	mg/kg	8260B	08/07/02	1000
Chloroethane	BDL	1.0	mg/kg	8260B	08/07/02	1000
2-Chloroethyl vinyl ether	BDL	50.	mg/kg	8260B	08/07/02	1000
Chloroform	BDL	5.0	mg/kg	8260B	08/07/02	1000
Chloromethane	BDL	1.0	mg/kg	8260B	08/07/02	1000
2-Chlorotoluene	BDL	1.0	mg/kg	8260B	08/07/02	1000
4-Chlorotoluene	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,2-Dibromo-3-Chloropropane	BDL	2.0	mg/kg	8260B	08/07/02	1000
1,2-Dibromoethane	BDL	1.0	mg/kg	8260B	08/07/02	1000
Dibromomethane	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,2-Dichlorobenzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,3-Dichlorobenzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,4-Dichlorobenzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
Dichlorodifluoromethane	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,1-Dichloroethane	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,2-Dichloroethane	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,1-Dichloroethene	BDL	1.0	mg/kg	8260B	08/07/02	1000
cis-1,2-Dichloroethene	BDL	1.0	mg/kg	8260B	08/07/02	1000
trans-1,2-Dichloroethene	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,2-Dichloropropane	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,1-Dichloropropene	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,3-Dichloropropane	BDL	1.0	mg/kg	8260B	08/07/02	1000
cis-1,3-Dichloropropene	BDL	1.0	mg/kg	8260B	08/07/02	1000
trans-1,3-Dichloropropene	BDL	1.0	mg/kg	8260B	08/07/02	1000
2,2-Dichloropropane	BDL	1.0	mg/kg	8260B	08/07/02	1000

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-20 2FT
Collected By :
Collection Date : 07/30/02 11:31

ESC Sample # : L85120-10
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	1.0	mg/kg	8260B	08/07/02	1000
Ethylbenzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
Hexachlorobutadiene	BDL	1.0	mg/kg	8260B	08/07/02	1000
Isopropylbenzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
p-Isopropyltoluene	BDL	1.0	mg/kg	8260B	08/07/02	1000
2-Butanone (MEK)	BDL	50.	mg/kg	8260B	08/07/02	1000
Methylene Chloride	BDL	5.0	mg/kg	8260B	08/07/02	1000
4-Methyl-2-pentanone (MIBK)	BDL	50.	mg/kg	8260B	08/07/02	1000
Methyl tert-butyl ether	BDL	1.0	mg/kg	8260B	08/07/02	1000
Naphthalene	BDL	5.0	mg/kg	8260B	08/07/02	1000
n-Propylbenzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
Styrene	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,1,1,2-Tetrachloroethane	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,1,2,2-Tetrachloroethane	BDL	1.0	mg/kg	8260B	08/07/02	1000
Tetrachloroethene	30.	1.0	mg/kg	8260B	08/07/02	1000
Toluene	BDL	5.0	mg/kg	8260B	08/07/02	1000
1,2,3-Trichlorobenzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,2,4-Trichlorobenzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,1,1-Trichloroethane	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,1,2-Trichloroethane	BDL	1.0	mg/kg	8260B	08/07/02	1000
Trichloroethene	BDL	1.0	mg/kg	8260B	08/07/02	1000
Trichlorofluoromethane	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,2,3-Trichloropropane	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,2,4-Trimethylbenzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
1,3,5-Trimethylbenzene	BDL	1.0	mg/kg	8260B	08/07/02	1000
Vinyl chloride	BDL	1.0	mg/kg	8260B	08/07/02	1000
Xylenes, Total	BDL	3.0	mg/kg	8260B	08/07/02	1000
Surrogate Recovery						
Toluene-d8	94.		% Rec.	8260B	08/07/02	1000
Dibromofluoromethane	100		% Rec.	8260B	08/07/02	1000
4-Bromofluorobenzene	91.		% Rec.	8260B	08/07/02	1000

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-22 7FT
Collected By :
Collection Date : 07/31/02 10:41

ESC Sample # : L85120-11
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	2.5	mg/kg	8260B	08/07/02	50
Acrolein	BDL	2.5	mg/kg	8260B	08/07/02	50
Acrylonitrile	BDL	2.5	mg/kg	8260B	08/07/02	50
Benzene	BDL	0.050	mg/kg	8260B	08/07/02	50
Bromobenzene	BDL	0.050	mg/kg	8260B	08/07/02	50
Bromodichloromethane	BDL	0.050	mg/kg	8260B	08/07/02	50
Bromoform	BDL	0.050	mg/kg	8260B	08/07/02	50
Bromomethane	BDL	0.050	mg/kg	8260B	08/07/02	50
n-Butylbenzene	BDL	0.050	mg/kg	8260B	08/07/02	50
sec-Butylbenzene	BDL	0.050	mg/kg	8260B	08/07/02	50
tert-Butylbenzene	BDL	0.050	mg/kg	8260B	08/07/02	50
Carbon tetrachloride	BDL	0.050	mg/kg	8260B	08/07/02	50
Chlorobenzene	BDL	0.050	mg/kg	8260B	08/07/02	50
Chlorodibromomethane	BDL	0.050	mg/kg	8260B	08/07/02	50
Chloroethane	BDL	0.050	mg/kg	8260B	08/07/02	50
2-Chloroethyl vinyl ether	BDL	2.5	mg/kg	8260B	08/07/02	50
Chloroform	BDL	0.25	mg/kg	8260B	08/07/02	50
Chloromethane	BDL	0.050	mg/kg	8260B	08/07/02	50
2-Chlorotoluene	BDL	0.050	mg/kg	8260B	08/07/02	50
4-Chlorotoluene	BDL	0.050	mg/kg	8260B	08/07/02	50
1,2-Dibromo-3-Chloropropane	BDL	0.10	mg/kg	8260B	08/07/02	50
1,2-Dibromoethane	BDL	0.050	mg/kg	8260B	08/07/02	50
Dibromomethane	BDL	0.050	mg/kg	8260B	08/07/02	50
1,2-Dichlorobenzene	BDL	0.050	mg/kg	8260B	08/07/02	50
1,3-Dichlorobenzene	BDL	0.050	mg/kg	8260B	08/07/02	50
1,4-Dichlorobenzene	BDL	0.050	mg/kg	8260B	08/07/02	50
Dichlorodifluoromethane	BDL	0.050	mg/kg	8260B	08/07/02	50
1,1-Dichloroethane	BDL	0.050	mg/kg	8260B	08/07/02	50
1,2-Dichloroethane	BDL	0.050	mg/kg	8260B	08/07/02	50
1,1-Dichloroethene	BDL	0.050	mg/kg	8260B	08/07/02	50
cis-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	08/07/02	50
trans-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	08/07/02	50
1,2-Dichloropropane	BDL	0.050	mg/kg	8260B	08/07/02	50
1,1-Dichloropropene	BDL	0.050	mg/kg	8260B	08/07/02	50
1,3-Dichloropropane	BDL	0.050	mg/kg	8260B	08/07/02	50
cis-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	08/07/02	50
trans-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	08/07/02	50
2,2-Dichloropropane	BDL	0.050	mg/kg	8260B	08/07/02	50

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-22 7FT
Collected By :
Collection Date : 07/31/02 10:41

ESC Sample # : L85120-11
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.050	mg/kg	8260B	08/07/02	50
Ethylbenzene	BDL	0.050	mg/kg	8260B	08/07/02	50
Hexachlorobutadiene	BDL	0.050	mg/kg	8260B	08/07/02	50
Isopropylbenzene	BDL	0.050	mg/kg	8260B	08/07/02	50
p-Isopropyltoluene	BDL	0.050	mg/kg	8260B	08/07/02	50
2-Butanone (MEK)	BDL	2.5	mg/kg	8260B	08/07/02	50
Methylene Chloride	BDL	0.25	mg/kg	8260B	08/07/02	50
4-Methyl-2-pentanone (MIBK)	BDL	2.5	mg/kg	8260B	08/07/02	50
Methyl tert-butyl ether	BDL	0.050	mg/kg	8260B	08/07/02	50
Naphthalene	BDL	0.25	mg/kg	8260B	08/07/02	50
n-Propylbenzene	BDL	0.050	mg/kg	8260B	08/07/02	50
Styrene	BDL	0.050	mg/kg	8260B	08/07/02	50
1,1,1,2-Tetrachloroethane	BDL	0.050	mg/kg	8260B	08/07/02	50
1,1,2,2-Tetrachloroethane	BDL	0.050	mg/kg	8260B	08/07/02	50
Tetrachloroethene	0.62	0.050	mg/kg	8260B	08/07/02	50
Toluene	BDL	0.25	mg/kg	8260B	08/07/02	50
1,2,3-Trichlorobenzene	BDL	0.050	mg/kg	8260B	08/07/02	50
1,2,4-Trichlorobenzene	BDL	0.050	mg/kg	8260B	08/07/02	50
1,1,1-Trichloroethane	BDL	0.050	mg/kg	8260B	08/07/02	50
1,1,2-Trichloroethane	BDL	0.050	mg/kg	8260B	08/07/02	50
Trichloroethene	BDL	0.050	mg/kg	8260B	08/07/02	50
Trichlorofluoromethane	BDL	0.050	mg/kg	8260B	08/07/02	50
1,2,3-Trichloropropane	BDL	0.050	mg/kg	8260B	08/07/02	50
1,2,4-Trimethylbenzene	BDL	0.050	mg/kg	8260B	08/07/02	50
1,3,5-Trimethylbenzene	BDL	0.050	mg/kg	8260B	08/07/02	50
Vinyl chloride	BDL	0.050	mg/kg	8260B	08/07/02	50
Xylenes, Total	BDL	0.15	mg/kg	8260B	08/07/02	50
Surrogate Recovery						
Toluene-d8	95.		% Rec.	8260B	08/07/02	50
Dibromofluoromethane	99.		% Rec.	8260B	08/07/02	50
4-Bromofluorobenzene	99.		% Rec.	8260B	08/07/02	50

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
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(615) 758-5858
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-100
Collected By :
Collection Date : 07/30/02 12:00

ESC Sample # : L85120-12
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	2.5	mg/kg	8260B	08/06/02	50
Acrolein	BDL	2.5	mg/kg	8260B	08/06/02	50
Acrylonitrile	BDL	2.5	mg/kg	8260B	08/06/02	50
Benzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromodichloromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromoform	BDL	0.050	mg/kg	8260B	08/06/02	50
Bromomethane	BDL	0.050	mg/kg	8260B	08/06/02	50
n-Butylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
sec-Butylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
tert-Butylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Carbon tetrachloride	BDL	0.050	mg/kg	8260B	08/06/02	50
Chlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Chlorodibromomethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Chloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
2-Chloroethyl vinyl ether	BDL	2.5	mg/kg	8260B	08/06/02	50
Chloroform	BDL	0.25	mg/kg	8260B	08/06/02	50
Chloromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
2-Chlorotoluene	BDL	0.050	mg/kg	8260B	08/06/02	50
4-Chlorotoluene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dibromo-3-Chloropropane	BDL	0.10	mg/kg	8260B	08/06/02	50
1,2-Dibromoethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Dibromomethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,3-Dichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,4-Dichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Dichlorodifluoromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1-Dichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1-Dichloroethene	BDL	0.050	mg/kg	8260B	08/06/02	50
cis-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	08/06/02	50
trans-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2-Dichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1-Dichloropropene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,3-Dichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50
cis-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	08/06/02	50
trans-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	08/06/02	50
2,2-Dichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : DCI - Keystone
Sample ID : GP-100
Collected By :
Collection Date : 07/30/02 12:00

ESC Sample # : L85120-12
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.050	mg/kg	8260B	08/06/02	50
Ethylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Hexachlorobutadiene	BDL	0.050	mg/kg	8260B	08/06/02	50
Isopropylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
p-Isopropyltoluene	BDL	0.050	mg/kg	8260B	08/06/02	50
2-Butanone (MEK)	BDL	2.5	mg/kg	8260B	08/06/02	50
Methylene Chloride	BDL	0.25	mg/kg	8260B	08/06/02	50
4-Methyl-2-pentanone (MIBK)	BDL	2.5	mg/kg	8260B	08/06/02	50
Methyl tert-butyl ether	BDL	0.050	mg/kg	8260B	08/06/02	50
Naphthalene	BDL	0.25	mg/kg	8260B	08/06/02	50
n-Propylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Styrene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,1,2-Tetrachloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,2,2-Tetrachloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Tetrachloroethene	1.2	0.050	mg/kg	8260B	08/06/02	50
Toluene	BDL	0.25	mg/kg	8260B	08/06/02	50
1,2,3-Trichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2,4-Trichlorobenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,1-Trichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,1,2-Trichloroethane	BDL	0.050	mg/kg	8260B	08/06/02	50
Trichloroethene	BDL	0.050	mg/kg	8260B	08/06/02	50
Trichlorofluoromethane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2,3-Trichloropropane	BDL	0.050	mg/kg	8260B	08/06/02	50
1,2,4-Trimethylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
1,3,5-Trimethylbenzene	BDL	0.050	mg/kg	8260B	08/06/02	50
Vinyl chloride	BDL	0.050	mg/kg	8260B	08/06/02	50
Xylenes, Total	BDL	0.15	mg/kg	8260B	08/06/02	50
Surrogate Recovery						
Toluene-d8	96.		% Rec.	8260B	08/06/02	50
Dibromofluoromethane	97.		% Rec.	8260B	08/06/02	50
4-Bromofluorobenzene	100		% Rec.	8260B	08/06/02	50

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L85120-01	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FHJ4
	2-Chloroethyl vinyl ether	FHJ4
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FH
	1,2,4-Trichlorobenzene	FH
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L85120-02	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FHJ4
	2-Chloroethyl vinyl ether	FHJ4
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FH
	1,2,4-Trichlorobenzene	FH
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L85120-03	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FHJ4
	2-Chloroethyl vinyl ether	FHJ4
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FH
	1,2,4-Trichlorobenzene	FH
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L85120-04	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	Chloroethane	FHJ4
	2-Chloroethyl vinyl ether	FHJ4
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FH
	1,2,4-Trichlorobenzene	FH
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L85120-05	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FHJ4
	2-Chloroethyl vinyl ether	FHJ4
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FH
	1,2,4-Trichlorobenzene	FH
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L85120-06	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FHJ4
	2-Chloroethyl vinyl ether	FHJ4
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FH
	1,2,4-Trichlorobenzene	FH
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L85120-07	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FHJ4
	2-Chloroethyl vinyl ether	FHJ4
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FH
	1,2,4-Trichlorobenzene	FH
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L85120-08	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FH
	2-Chloroethyl vinyl ether	FH
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FH
	1,2,4-Trichlorobenzene	FH
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L85120-10	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FHJ4
	2-Chloroethyl vinyl ether	FHJ4
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FH
	1,2,4-Trichlorobenzene	FH
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L85120-11	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FHJ4
	2-Chloroethyl vinyl ether	FHJ4
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FH
	1,2,4-Trichlorobenzene	FH
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH
L85120-12	Acetone	FH
	Acrolein	FHJ4
	Acrylonitrile	FH
	Benzene	FH
	Bromobenzene	FH
	Bromodichloromethane	FH
	Bromoform	FH
	Bromomethane	FH
	n-Butylbenzene	FH
	sec-Butylbenzene	FH
	tert-Butylbenzene	FH
	Carbon tetrachloride	FH
	Chlorobenzene	FH
	Chlorodibromomethane	FH
	Chloroethane	FHJ4
	2-Chloroethyl vinyl ether	FHJ4
	Chloroform	FH
	Chloromethane	FH
	2-Chlorotoluene	FH
	4-Chlorotoluene	FH
	1,2-Dibromo-3-Chloropropane	FH
	1,2-Dibromoethane	FH
	Dibromomethane	FH
	1,2-Dichlorobenzene	FH
	1,3-Dichlorobenzene	FH
	1,4-Dichlorobenzene	FH
	Dichlorodifluoromethane	FH
	1,1-Dichloroethane	FH
	1,2-Dichloroethane	FH
	1,1-Dichloroethene	FH
	cis-1,2-Dichloroethene	FH
	trans-1,2-Dichloroethene	FH
	1,2-Dichloropropane	FH
	1,1-Dichloropropene	FH
	1,3-Dichloropropane	FH
	cis-1,3-Dichloropropene	FH
	trans-1,3-Dichloropropene	FH
	2,2-Dichloropropane	FH
	Di-isopropyl ether	FH
	Ethylbenzene	FH
	Hexachlorobutadiene	FH
	Isopropylbenzene	FH
	p-Isopropyltoluene	FH
	2-Butanone (MEK)	FH
	Methylene Chloride	FH
	4-Methyl-2-pentanone (MIBK)	FH
	Methyl tert-butyl ether	FH
	Naphthalene	FH
	n-Propylbenzene	FH

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	Styrene	FH
	1,1,1,2-Tetrachloroethane	FH
	1,1,2,2-Tetrachloroethane	FH
	Tetrachloroethene	FH
	Toluene	FH
	1,2,3-Trichlorobenzene	FH
	1,2,4-Trichlorobenzene	FH
	1,1,1-Trichloroethane	FH
	1,1,2-Trichloroethane	FH
	Trichloroethene	FH
	Trichlorofluoromethane	FH
	1,2,3-Trichloropropane	FH
	1,2,4-Trimethylbenzene	FH
	1,3,5-Trimethylbenzene	FH
	Vinyl chloride	FH
	Xylenes, Total	FH

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
H	RIN(EPA)-Re-Analyzed: The indicated analytical results were generated from a reinjection of the same sample extract or aliquot.
F	SRN (EPA) - Diluted: The original sample was diluted due to high amounts of one or more target analytes. All associated method analytes will be subject to an elevated detection limit relative to the dilution factor.
J4	The associated batch QC did not successfully meet the established quality control criteria for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC.
Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

REQUEST FOR LABORATORY ANALYTICAL SERVICES

Purchase Order No.	Quote No.	Client Job No.
30351-022-14		30351-022-121

SEND INVOICE TO
Name: Bill Eckhoff
Company: URS
Dept.:
Address: 36 E 7th St. Suite 2300
City, State, Zip: Cincinnati, OH, 45202

REPORT RESULTS TO
Name: Bill Eckhoff
Title: Project Manager
Company: URS
Dept.:
Mailing Address: 36 E. 7th Street Suite 2300
City, State, Zip: Cincinnati, OH, 45202
Telephone No.: (513) 651-3440
Telefax No.: (513) 651-3452

Date Results Req.:
Rush Charges Authorized? ☐ Yes ☒ No
Phone / Fax Results ☐ ☐

Check Regulatory Type: ☐ NPDES ☐ UST ☐ SDWA ☐ FDA/USDA ☐ RCRA ☐ other ☐ Collected In State of IN

Special Instructions: Level 4 Data Package

ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME	COMP	GRAB	SAMPLE TYPE (MATRIX)	Number of Containers	VOC, 8260 (Archive)	VOC, 8260									LAB ONLY
GP-1 (24')	7/29/02	1851		Grab	Soil	1	X										
GP-1 (12')	7/29/02	1821				1	X										
GP-1 (3')	7/29/02	1807				1		X								L85120-01	
GP-9B (23')	7/29/02	1722				1	X										
GP-9 (3')	7/29/02	1511				1		X									02
GP-9 (10')	7/29/02	1530				1	X										
GP-11 (24')	7/31/02	1713				1	X										
GP-11 (12')	7/31/02	1642				1		X									03
GP-14 (25')	7/29/02	1030				1	X										
GP-14 (24')	7/29/02	1018				1	X										

CHAIN OF CUSTODY (if required)
Relinquished by: Matt Mitchell — Date/Time 7/31/02/2000 — Received by: [signature] — Date/Time 8/1/02 9:30
Relinquished by: — Date/Time — Received at lab by: — Date/Time
Method of Shipment:

Comments: Custody seal intact Fedex 4°c 35202 OK

Authorized by: Matt Mitchell (Client Signature Must Accompany Request) Date 7/31/02

DISTRIBUTION: WHITE - Laboratory; YELLOW - Acc

REQUEST FOR LABORATORY ANALYTICAL SERVICES

Purchase Order No.	Quote No.	Client Job No.

SEND INVOICE TO

Name: Bill Eckhoff
Company: URS
Dept.:
Address:
City, State, Zip:

REPORT RESULTS TO

Name: Bill Eckhoff
Title:
Company: URS
Dept.:
Mailing Address:
City, State, Zip:
Telephone No.:
Telefax No.:

Date Results Req.: Rush Charges Authorized? ☐ Yes ☒ No
Phone / Fax Results ☐ ☐

Check Regulatory Type: ☐ NPDES ☐ UST ☐ SDWA ☐ FDA/USDA ☐ RCRA ☐ other ☒ Collected In State of IN

Special Instructions: Level 4 Data Package

ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME	COMP	GRAB	SAMPLE TYPE (MATRIX)	Number of Containers	VOCs 8260 (Archive)	VOCs 8260									LAB ONLY
GP-14 (12')	7/29/02	0943		Grab	Soil	1		X						L85120-			04
GP-15 (11')	7/29/02	1311				1	X										
GP-15 (3')	7/29/02	1251				1	X										
GP-15 (26')	7/29/02	1410				1	X										
GP-15 (25')	7/29/02	1400				1		X									05
GP-16 (12')	7/30/02	1002				1	X										
GP-16 (23')	7/30/02	1031				1	X										
GP-16 (20')	7/30/02	1023				1		X									06
GP-16 (3')	7/30/02	0940				1	X										
GP-17 (4')	7/30/02	0751				1	X										

CHAIN OF CUSTODY (if required)

Relinquished by: Matt Mitchell — Date/Time: 7/31/02 2000
Relinquished by: — Date/Time:
Method of Shipment:

Received by: Andy Vann — Date/Time: 8/1/02 9:30
Received at lab by: — Date/Time:

Comments: Custody seal intact Fedex 4° 35 ...
OK

Authorized by: Matt Mitchell — Date: 7/31/02
(Client Signature Must Accompany Request)

DISTRIBUTION:
WHITE - Laboratory
[redacted]

REQUEST FOR LABORATORY ANALYTICAL SERVICES

Purchase Order No.	Quote No.	Client Job No.

SEND INVOICE TO
Name: Bill Eckhoff
Company: LRS
Dept.:
Address:
City, State, Zip:

REPORT RESULTS TO
Name: Bill Eckhoff
Title:
Company: LRS
Dept.:
Mailing Address:
City, State, Zip:
Telephone No.:
Telefax No.:

Date Results Req.:
Rush Charges Authorized? ☐ Yes ☒ No
Phone / Fax Results ☐ ☐
Check Regulatory Type: ☐ NPDES ☐ UST ☐ SDWA ☐ FDA/USDA ☐ RCRA ☐ other ☒ Collected in State of IL

Special Instructions: Level 4 Data Package

ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME	COMP	GRAB	SAMPLE TYPE (MATRIX)	Number of Containers	VOCs 8260 (Archive)	VOCs 8260									LAB ONLY
GP-17 (12')	7/30/02	0812		Grab	Soil	1		X						L85120-			07
GP-17 (23')	7/30/02	0841				1	X										
GP-17 (24')	7/30/02	0842				1	X										
GP-18 (2')	7/31/02	0820				1		X									08
GP-18 (9')	7/31/02	0910				1	X										
GP-18 (24')	7/31/02	0942				1	X										
GP-19 (2')	7/30/02	1506				1	X										
GP-19 (24')	7/30/02	1813				1		X									~~09~~ 4
GP-20 (2)	7/30/02	1131				1		X									10
GP-20 (23')	7/30/02	1247				1	X										

CHAIN OF CUSTODY (if required)
Relinquished by: Matt Mitchell — Date/Time 7/31/02 2000
Relinquished by: — Date/Time
Method of Shipment:
Received by: [signature] — Date/Time 8/1/02 9:30
Received at lab by: — Date/Time
Comments: Custody seal intact Fedex 4°C 35 oz OK

Authorized by: Matt Mitchell (Client Signature Must Accompany Request) Date 7/31/02

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Accounting

REQUEST FOR LABORATORY ANALYTICAL SERVICES

Purchase Order No.	Quote No.	Client Job No.

SEND INVOICE TO
Name: Bill Eckhoff
Company: URS
Dept.:
Address:
City, State, Zip:

REPORT RESULTS TO
Name: Bill Eckhoff
Title:
Company: URS
Dept.:
Mailing Address:
City, State, Zip:
Telephone No.:
Telefax No.:

Date Results Req.:
Rush Charges Authorized? ☐ Yes ☑ No
Phone / Fax Results ☐ ☐
Check Regulatory Type: ☐ NPDES ☐ UST ☐ SDWA ☐ FDA/USDA ☐ RCRA ☐ other ☑ Collected In State of IL

Special Instructions: Level 4 Data Package

ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME	COMP	GRAB	SAMPLE TYPE (MATRIX)	Number of Containers	VOCs 8260 (archive)	VOCs 8260	LAB ONLY
GP-22 (8')	7/31/02	1042		Grab	Soil	1	X		
GP-20 (10')	7/30/02	1150				1	X		
GP-22 (7')	7/31/02	1041				1		X	L85120-11
GP-22B (24')	7/31/02	1250				1	X		
GP-100	7/30/02	1200				1		X	12

CHAIN OF CUSTODY (if required)
Relinquished by: [signature] Date/Time 7/31/02 2000
Relinquished by: Date/Time
Method of Shipment:
Received by: [signature] Date/Time 8/1/02 9:30
Received at lab by: Date/Time
Comments: Custody seal intact Fedex 4°C 35 202 OK

Authorized by: [signature] Date 7/31/02
(Client Signature Must Accompany Request)

DISTRIBUTION:
WHITE - Laboratory
YELLOW - Acco

P63098 L85120

Jasen Estes

From: Tom Mellette
Sent: Friday, August 02, 2002 3:45 PM
To: Login
Subject: L85120-09 *DAMESOH*

Importance: High

Per client place this sample on hold.

WG79107

ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : TRIP BLANK
Collected By : Matt Mitchell
Collection Date : 07/31/02 00:00

ESC Sample # : L85106-01
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	08/07/02	1
Acrolein	BDL	0.050	mg/l	8260B	08/07/02	1
Acrylonitrile	BDL	0.050	mg/l	8260B	08/07/02	1
Benzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Bromobenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	08/07/02	1
Bromoform	BDL	0.0010	mg/l	8260B	08/07/02	1
Bromomethane	BDL	0.0010	mg/l	8260B	08/07/02	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	08/07/02	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	08/07/02	1
Chloroethane	BDL	0.0010	mg/l	8260B	08/07/02	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	08/07/02	1
Chloroform	BDL	0.0050	mg/l	8260B	08/07/02	1
Chloromethane	BDL	0.0010	mg/l	8260B	08/07/02	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/07/02	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,2-Dibromo-3-Chloropropane	BDL	0.0020	mg/l	8260B	08/07/02	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	08/07/02	1
Dibromomethane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Dichlorodifluoromethane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	08/07/02	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/07/02	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	08/07/02	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/07/02	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/07/02	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/07/02	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : TRIP BLANK
Collected By : Matt Mitchell
Collection Date : 07/31/02 00:00

ESC Sample # : L85106-01
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	08/07/02	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Hexachlorobutadiene	BDL	0.0010	mg/l	8260B	08/07/02	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	08/07/02	1
2-Butanone (MEK)	BDL	0.050	mg/l	8260B	08/07/02	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	08/07/02	1
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/l	8260B	08/07/02	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	08/07/02	1
Naphthalene	BDL	0.0050	mg/l	8260B	08/07/02	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Styrene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/07/02	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	08/07/02	1
Toluene	BDL	0.0050	mg/l	8260B	08/07/02	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	08/07/02	1
Trichloroethene	BDL	0.0010	mg/l	8260B	08/07/02	1
Trichlorofluoromethane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	08/07/02	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	08/07/02	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/07/02	1
Dibromofluoromethane	100		% Rec.	8260B	08/07/02	1
4-Bromofluorobenzene	97.		% Rec.	8260B	08/07/02	1

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : GP-16
Collected By : Matt Mitchell
Collection Date : 07/30/02 10:50

ESC Sample # : L85106-02
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.25	mg/l	8260B	08/07/02	5
Acrolein	BDL	0.25	mg/l	8260B	08/07/02	5
Acrylonitrile	BDL	0.25	mg/l	8260B	08/07/02	5
Benzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Bromobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Bromodichloromethane	BDL	0.0050	mg/l	8260B	08/07/02	5
Bromoform	BDL	0.0050	mg/l	8260B	08/07/02	5
Bromomethane	BDL	0.0050	mg/l	8260B	08/07/02	5
n-Butylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
sec-Butylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
tert-Butylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Carbon tetrachloride	BDL	0.0050	mg/l	8260B	08/07/02	5
Chlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Chlorodibromomethane	BDL	0.0050	mg/l	8260B	08/07/02	5
Chloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/l	8260B	08/07/02	5
Chloroform	BDL	0.025	mg/l	8260B	08/07/02	5
Chloromethane	BDL	0.0050	mg/l	8260B	08/07/02	5
2-Chlorotoluene	BDL	0.0050	mg/l	8260B	08/07/02	5
4-Chlorotoluene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2-Dibromo-3-Chloropropane	BDL	0.010	mg/l	8260B	08/07/02	5
1,2-Dibromoethane	BDL	0.0050	mg/l	8260B	08/07/02	5
Dibromomethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2-Dichlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,3-Dichlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,4-Dichlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1-Dichloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2-Dichloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1-Dichloroethene	BDL	0.0050	mg/l	8260B	08/07/02	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/l	8260B	08/07/02	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2-Dichloropropane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1-Dichloropropene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,3-Dichloropropane	BDL	0.0050	mg/l	8260B	08/07/02	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/l	8260B	08/07/02	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/l	8260B	08/07/02	5
2,2-Dichloropropane	BDL	0.0050	mg/l	8260B	08/07/02	5

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002

Description : Tuchman Cleaners/ Keystone

Sample ID : GP-16

Collected By : Matt Mitchell
Collection Date : 07/30/02 10:50

ESC Sample # : L85106-02

ESC Key : DAMESOH-30351013121

Site ID :

Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.0050	mg/l	8260B	08/07/02	5
Ethylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Hexachlorobutadiene	BDL	0.0050	mg/l	8260B	08/07/02	5
Isopropylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
p-Isopropyltoluene	BDL	0.0050	mg/l	8260B	08/07/02	5
2-Butanone (MEK)	BDL	0.25	mg/l	8260B	08/07/02	5
Methylene Chloride	BDL	0.025	mg/l	8260B	08/07/02	5
4-Methyl-2-pentanone (MIBK)	BDL	0.25	mg/l	8260B	08/07/02	5
Methyl tert-butyl ether	BDL	0.0050	mg/l	8260B	08/07/02	5
Naphthalene	BDL	0.025	mg/l	8260B	08/07/02	5
n-Propylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Styrene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
Tetrachloroethene	0.064	0.0050	mg/l	8260B	08/07/02	5
Toluene	BDL	0.025	mg/l	8260B	08/07/02	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1,1-Trichloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1,2-Trichloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
Trichloroethene	BDL	0.0050	mg/l	8260B	08/07/02	5
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2,3-Trichloropropane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Vinyl chloride	BDL	0.0050	mg/l	8260B	08/07/02	5
Xylenes, Total	BDL	0.015	mg/l	8260B	08/07/02	5
Surrogate Recovery						
Toluene-d8	99.		% Rec.	8260B	08/07/02	5
Dibromofluoromethane	110		% Rec.	8260B	08/07/02	5
4-Bromofluorobenzene	97.		% Rec.	8260B	08/07/02	5

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : GP-19
Collected By : Matt Mitchell
Collection Date : 07/30/02 16:50

ESC Sample # : L85106-03
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.25	mg/l	8260B	08/07/02	5
Acrolein	BDL	0.25	mg/l	8260B	08/07/02	5
Acrylonitrile	BDL	0.25	mg/l	8260B	08/07/02	5
Benzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Bromobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Bromodichloromethane	BDL	0.0050	mg/l	8260B	08/07/02	5
Bromoform	BDL	0.0050	mg/l	8260B	08/07/02	5
Bromomethane	BDL	0.0050	mg/l	8260B	08/07/02	5
n-Butylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
sec-Butylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
tert-Butylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Carbon tetrachloride	BDL	0.0050	mg/l	8260B	08/07/02	5
Chlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Chlorodibromomethane	BDL	0.0050	mg/l	8260B	08/07/02	5
Chloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/l	8260B	08/07/02	5
Chloroform	BDL	0.025	mg/l	8260B	08/07/02	5
Chloromethane	BDL	0.0050	mg/l	8260B	08/07/02	5
2-Chlorotoluene	BDL	0.0050	mg/l	8260B	08/07/02	5
4-Chlorotoluene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2-Dibromo-3-Chloropropane	BDL	0.010	mg/l	8260B	08/07/02	5
1,2-Dibromoethane	BDL	0.0050	mg/l	8260B	08/07/02	5
Dibromomethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2-Dichlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,3-Dichlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,4-Dichlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1-Dichloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2-Dichloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1-Dichloroethene	BDL	0.0050	mg/l	8260B	08/07/02	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/l	8260B	08/07/02	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2-Dichloropropane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1-Dichloropropene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,3-Dichloropropane	BDL	0.0050	mg/l	8260B	08/07/02	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/l	8260B	08/07/02	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/l	8260B	08/07/02	5
2,2-Dichloropropane	BDL	0.0050	mg/l	8260B	08/07/02	5

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : GP-19
Collected By : Matt Mitchell
Collection Date : 07/30/02 16:50

ESC Sample # : L85106-03
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.0050	mg/l	8260B	08/07/02	5
Ethylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Hexachlorobutadiene	BDL	0.0050	mg/l	8260B	08/07/02	5
Isopropylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
p-Isopropyltoluene	BDL	0.0050	mg/l	8260B	08/07/02	5
2-Butanone (MEK)	BDL	0.25	mg/l	8260B	08/07/02	5
Methylene Chloride	BDL	0.025	mg/l	8260B	08/07/02	5
4-Methyl-2-pentanone (MIBK)	BDL	0.25	mg/l	8260B	08/07/02	5
Methyl tert-butyl ether	BDL	0.0050	mg/l	8260B	08/07/02	5
Naphthalene	BDL	0.025	mg/l	8260B	08/07/02	5
n-Propylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Styrene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
Tetrachloroethene	0.065	0.0050	mg/l	8260B	08/07/02	5
Toluene	BDL	0.025	mg/l	8260B	08/07/02	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1,1-Trichloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1,2-Trichloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
Trichloroethene	BDL	0.0050	mg/l	8260B	08/07/02	5
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2,3-Trichloropropane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Vinyl chloride	BDL	0.0050	mg/l	8260B	08/07/02	5
Xylenes, Total	BDL	0.015	mg/l	8260B	08/07/02	5
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/07/02	5
Dibromofluoromethane	110		% Rec.	8260B	08/07/02	5
4-Bromofluorobenzene	98.		% Rec.	8260B	08/07/02	5

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : GP-1
Collected By : Matt Mitchell
Collection Date : 07/30/02 06:40

ESC Sample # : L85106-04
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	08/07/02	1
Acrolein	BDL	0.050	mg/l	8260B	08/07/02	1
Acrylonitrile	BDL	0.050	mg/l	8260B	08/07/02	1
Benzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Bromobenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	08/07/02	1
Bromoform	BDL	0.0010	mg/l	8260B	08/07/02	1
Bromomethane	BDL	0.0010	mg/l	8260B	08/07/02	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	08/07/02	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	08/07/02	1
Chloroethane	BDL	0.0010	mg/l	8260B	08/07/02	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	08/07/02	1
Chloroform	BDL	0.0050	mg/l	8260B	08/07/02	1
Chloromethane	BDL	0.0010	mg/l	8260B	08/07/02	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/07/02	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,2-Dibromo-3-Chloropropane	BDL	0.0020	mg/l	8260B	08/07/02	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	08/07/02	1
Dibromomethane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Dichlorodifluoromethane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	08/07/02	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/07/02	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	08/07/02	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/07/02	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/07/02	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/07/02	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : GP-1
Collected By : Matt Mitchell
Collection Date : 07/30/02 06:40

ESC Sample # : L85106-04
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	08/07/02	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Hexachlorobutadiene	BDL	0.0010	mg/l	8260B	08/07/02	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	08/07/02	1
2-Butanone (MEK)	BDL	0.050	mg/l	8260B	08/07/02	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	08/07/02	1
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/l	8260B	08/07/02	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	08/07/02	1
Naphthalene	BDL	0.0050	mg/l	8260B	08/07/02	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Styrene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/07/02	1
Tetrachloroethene	0.0055	0.0010	mg/l	8260B	08/07/02	1
Toluene	BDL	0.0050	mg/l	8260B	08/07/02	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	08/07/02	1
Trichloroethene	BDL	0.0010	mg/l	8260B	08/07/02	1
Trichlorofluoromethane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	08/07/02	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/07/02	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	08/07/02	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	08/07/02	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/07/02	1
Dibromofluoromethane	100		% Rec.	8260B	08/07/02	1
4-Bromofluorobenzene	96.		% Rec.	8260B	08/07/02	1

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : GP-11
Collected By : Matt Mitchell
Collection Date : 07/31/02 17:35

ESC Sample # : L85106-05
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.25	mg/l	8260B	08/07/02	5
Acrolein	BDL	0.25	mg/l	8260B	08/07/02	5
Acrylonitrile	BDL	0.25	mg/l	8260B	08/07/02	5
Benzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Bromobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Bromodichloromethane	BDL	0.0050	mg/l	8260B	08/07/02	5
Bromoform	BDL	0.0050	mg/l	8260B	08/07/02	5
Bromomethane	BDL	0.0050	mg/l	8260B	08/07/02	5
n-Butylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
sec-Butylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
tert-Butylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Carbon tetrachloride	BDL	0.0050	mg/l	8260B	08/07/02	5
Chlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Chlorodibromomethane	BDL	0.0050	mg/l	8260B	08/07/02	5
Chloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/l	8260B	08/07/02	5
Chloroform	BDL	0.025	mg/l	8260B	08/07/02	5
Chloromethane	BDL	0.0050	mg/l	8260B	08/07/02	5
2-Chlorotoluene	BDL	0.0050	mg/l	8260B	08/07/02	5
4-Chlorotoluene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2-Dibromo-3-Chloropropane	BDL	0.010	mg/l	8260B	08/07/02	5
1,2-Dibromoethane	BDL	0.0050	mg/l	8260B	08/07/02	5
Dibromomethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2-Dichlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,3-Dichlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,4-Dichlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1-Dichloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2-Dichloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1-Dichloroethene	BDL	0.0050	mg/l	8260B	08/07/02	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/l	8260B	08/07/02	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2-Dichloropropane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1-Dichloropropene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,3-Dichloropropane	BDL	0.0050	mg/l	8260B	08/07/02	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/l	8260B	08/07/02	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/l	8260B	08/07/02	5
2,2-Dichloropropane	BDL	0.0050	mg/l	8260B	08/07/02	5

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : GP-11
Collected By : Matt Mitchell
Collection Date : 07/31/02 17:35

ESC Sample # : L85106-05
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.0050	mg/l	8260B	08/07/02	5
Ethylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Hexachlorobutadiene	BDL	0.0050	mg/l	8260B	08/07/02	5
Isopropylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
p-Isopropyltoluene	BDL	0.0050	mg/l	8260B	08/07/02	5
2-Butanone (MEK)	BDL	0.25	mg/l	8260B	08/07/02	5
Methylene Chloride	BDL	0.025	mg/l	8260B	08/07/02	5
4-Methyl-2-pentanone (MIBK)	BDL	0.25	mg/l	8260B	08/07/02	5
Methyl tert-butyl ether	BDL	0.0050	mg/l	8260B	08/07/02	5
Naphthalene	BDL	0.025	mg/l	8260B	08/07/02	5
n-Propylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Styrene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
Tetrachloroethene	0.052	0.0050	mg/l	8260B	08/07/02	5
Toluene	BDL	0.025	mg/l	8260B	08/07/02	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1,1-Trichloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,1,2-Trichloroethane	BDL	0.0050	mg/l	8260B	08/07/02	5
Trichloroethene	BDL	0.0050	mg/l	8260B	08/07/02	5
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2,3-Trichloropropane	BDL	0.0050	mg/l	8260B	08/07/02	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/l	8260B	08/07/02	5
Vinyl chloride	BDL	0.0050	mg/l	8260B	08/07/02	5
Xylenes, Total	BDL	0.015	mg/l	8260B	08/07/02	5
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/07/02	5
Dibromofluoromethane	100		% Rec.	8260B	08/07/02	5
4-Bromofluorobenzene	94.		% Rec.	8260B	08/07/02	5

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : GP-20
Collected By : Matt Mitchell
Collection Date : 07/30/02 14:13

ESC Sample # : L85106-06
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	08/08/02	1
Acrolein	BDL	0.050	mg/l	8260B	08/08/02	1
Acrylonitrile	BDL	0.050	mg/l	8260B	08/08/02	1
Benzene	BDL	0.0010	mg/l	8260B	08/08/02	1
Bromobenzene	BDL	0.0010	mg/l	8260B	08/08/02	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	08/08/02	1
Bromoform	BDL	0.0010	mg/l	8260B	08/08/02	1
Bromomethane	BDL	0.0010	mg/l	8260B	08/08/02	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	08/08/02	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	08/08/02	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	08/08/02	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	08/08/02	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	08/08/02	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	08/08/02	1
Chloroethane	BDL	0.0010	mg/l	8260B	08/08/02	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	08/08/02	1
Chloroform	BDL	0.0050	mg/l	8260B	08/08/02	1
Chloromethane	BDL	0.0010	mg/l	8260B	08/08/02	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/08/02	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	08/08/02	1
1,2-Dibromo-3-Chloropropane	BDL	0.0020	mg/l	8260B	08/08/02	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	08/08/02	1
Dibromomethane	BDL	0.0010	mg/l	8260B	08/08/02	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/08/02	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/08/02	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	08/08/02	1
Dichlorodifluoromethane	BDL	0.0010	mg/l	8260B	08/08/02	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	08/08/02	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	08/08/02	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	08/08/02	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/08/02	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	08/08/02	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/08/02	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	08/08/02	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	08/08/02	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/08/02	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	08/08/02	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	08/08/02	1

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : GP-20
Collected By : Matt Mitchell
Collection Date : 07/30/02 14:13

ESC Sample # : L85106-06
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	08/08/02	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	08/08/02	1
Hexachlorobutadiene	BDL	0.0010	mg/l	8260B	08/08/02	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	08/08/02	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	08/08/02	1
2-Butanone (MEK)	BDL	0.050	mg/l	8260B	08/08/02	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	08/08/02	1
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/l	8260B	08/08/02	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	08/08/02	1
Naphthalene	BDL	0.0050	mg/l	8260B	08/08/02	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	08/08/02	1
Styrene	BDL	0.0010	mg/l	8260B	08/08/02	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/08/02	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	08/08/02	1
Tetrachloroethene	0.018	0.0010	mg/l	8260B	08/08/02	1
Toluene	BDL	0.0050	mg/l	8260B	08/08/02	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/08/02	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	08/08/02	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	08/08/02	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	08/08/02	1
Trichloroethene	BDL	0.0010	mg/l	8260B	08/08/02	1
Trichlorofluoromethane	BDL	0.0010	mg/l	8260B	08/08/02	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	08/08/02	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/08/02	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	08/08/02	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	08/08/02	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	08/08/02	1
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/08/02	1
Dibromofluoromethane	98.		% Rec.	8260B	08/08/02	1
4-Bromofluorobenzene	96.		% Rec.	8260B	08/08/02	1

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : GP-17
Collected By : Matt Mitchell
Collection Date : 07/30/02 08:50

ESC Sample # : L85106-07
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	0.25	mg/l	8260B	08/05/02	5
Acrolein	BDL	0.25	mg/l	8260B	08/05/02	5
Acrylonitrile	BDL	0.25	mg/l	8260B	08/05/02	5
Benzene	BDL	0.0050	mg/l	8260B	08/05/02	5
Bromobenzene	BDL	0.0050	mg/l	8260B	08/05/02	5
Bromodichloromethane	BDL	0.0050	mg/l	8260B	08/05/02	5
Bromoform	BDL	0.0050	mg/l	8260B	08/05/02	5
Bromomethane	BDL	0.0050	mg/l	8260B	08/05/02	5
n-Butylbenzene	BDL	0.0050	mg/l	8260B	08/05/02	5
sec-Butylbenzene	BDL	0.0050	mg/l	8260B	08/05/02	5
tert-Butylbenzene	BDL	0.0050	mg/l	8260B	08/05/02	5
Carbon tetrachloride	BDL	0.0050	mg/l	8260B	08/05/02	5
Chlorobenzene	BDL	0.0050	mg/l	8260B	08/05/02	5
Chlorodibromomethane	BDL	0.0050	mg/l	8260B	08/05/02	5
Chloroethane	BDL	0.0050	mg/l	8260B	08/05/02	5
2-Chloroethyl vinyl ether	BDL	0.25	mg/l	8260B	08/05/02	5
Chloroform	BDL	0.025	mg/l	8260B	08/05/02	5
Chloromethane	BDL	0.0050	mg/l	8260B	08/05/02	5
2-Chlorotoluene	BDL	0.0050	mg/l	8260B	08/05/02	5
4-Chlorotoluene	BDL	0.0050	mg/l	8260B	08/05/02	5
1,2-Dibromo-3-Chloropropane	BDL	0.010	mg/l	8260B	08/05/02	5
1,2-Dibromoethane	BDL	0.0050	mg/l	8260B	08/05/02	5
Dibromomethane	BDL	0.0050	mg/l	8260B	08/05/02	5
1,2-Dichlorobenzene	BDL	0.0050	mg/l	8260B	08/05/02	5
1,3-Dichlorobenzene	BDL	0.0050	mg/l	8260B	08/05/02	5
1,4-Dichlorobenzene	BDL	0.0050	mg/l	8260B	08/05/02	5
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	08/05/02	5
1,1-Dichloroethane	BDL	0.0050	mg/l	8260B	08/05/02	5
1,2-Dichloroethane	BDL	0.0050	mg/l	8260B	08/05/02	5
1,1-Dichloroethene	BDL	0.0050	mg/l	8260B	08/05/02	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/l	8260B	08/05/02	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/l	8260B	08/05/02	5
1,2-Dichloropropane	BDL	0.0050	mg/l	8260B	08/05/02	5
1,1-Dichloropropene	BDL	0.0050	mg/l	8260B	08/05/02	5
1,3-Dichloropropane	BDL	0.0050	mg/l	8260B	08/05/02	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/l	8260B	08/05/02	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/l	8260B	08/05/02	5
2,2-Dichloropropane	BDL	0.0050	mg/l	8260B	08/05/02	5

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : GP-17
Collected By : Matt Mitchell
Collection Date : 07/30/02 08:50

ESC Sample # : L85106-07
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.0050	mg/l	8260B	08/05/02	5
Ethylbenzene	BDL	0.0050	mg/l	8260B	08/05/02	5
Hexachlorobutadiene	BDL	0.0050	mg/l	8260B	08/05/02	5
Isopropylbenzene	BDL	0.0050	mg/l	8260B	08/05/02	5
p-Isopropyltoluene	BDL	0.0050	mg/l	8260B	08/05/02	5
2-Butanone (MEK)	BDL	0.25	mg/l	8260B	08/05/02	5
Methylene Chloride	BDL	0.025	mg/l	8260B	08/05/02	5
4-Methyl-2-pentanone (MIBK)	BDL	0.25	mg/l	8260B	08/05/02	5
Methyl tert-butyl ether	BDL	0.0050	mg/l	8260B	08/05/02	5
Naphthalene	BDL	0.025	mg/l	8260B	08/05/02	5
n-Propylbenzene	BDL	0.0050	mg/l	8260B	08/05/02	5
Styrene	BDL	0.0050	mg/l	8260B	08/05/02	5
1,1,1,2-Tetrachloroethane	BDL	0.0050	mg/l	8260B	08/05/02	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/l	8260B	08/05/02	5
Tetrachloroethene	0.12	0.0050	mg/l	8260B	08/05/02	5
Toluene	BDL	0.025	mg/l	8260B	08/05/02	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/l	8260B	08/05/02	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/l	8260B	08/05/02	5
1,1,1-Trichloroethane	BDL	0.0050	mg/l	8260B	08/05/02	5
1,1,2-Trichloroethane	BDL	0.0050	mg/l	8260B	08/05/02	5
Trichloroethene	BDL	0.0050	mg/l	8260B	08/05/02	5
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	08/05/02	5
1,2,3-Trichloropropane	BDL	0.0050	mg/l	8260B	08/05/02	5
1,2,4-Trimethylbenzene	BDL	0.0050	mg/l	8260B	08/05/02	5
1,3,5-Trimethylbenzene	BDL	0.0050	mg/l	8260B	08/05/02	5
Vinyl chloride	BDL	0.0050	mg/l	8260B	08/05/02	5
Xylenes, Total	BDL	0.015	mg/l	8260B	08/05/02	5
Surrogate Recovery						
Toluene-d8	100		% Rec.	8260B	08/05/02	5
Dibromofluoromethane	100		% Rec.	8260B	08/05/02	5
4-Bromofluorobenzene	110		% Rec.	8260B	08/05/02	5

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : GP-9
Collected By : Matt Mitchell
Collection Date : 07/29/02 16:20

ESC Sample # : L85106-08
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	1.2	mg/l	8260B	08/07/02	25
Acrolein	BDL	1.2	mg/l	8260B	08/07/02	25
Acrylonitrile	BDL	1.2	mg/l	8260B	08/07/02	25
Benzene	BDL	0.025	mg/l	8260B	08/07/02	25
Bromobenzene	BDL	0.025	mg/l	8260B	08/07/02	25
Bromodichloromethane	BDL	0.025	mg/l	8260B	08/07/02	25
Bromoform	BDL	0.025	mg/l	8260B	08/07/02	25
Bromomethane	BDL	0.025	mg/l	8260B	08/07/02	25
n-Butylbenzene	BDL	0.025	mg/l	8260B	08/07/02	25
sec-Butylbenzene	BDL	0.025	mg/l	8260B	08/07/02	25
tert-Butylbenzene	BDL	0.025	mg/l	8260B	08/07/02	25
Carbon tetrachloride	BDL	0.025	mg/l	8260B	08/07/02	25
Chlorobenzene	BDL	0.025	mg/l	8260B	08/07/02	25
Chlorodibromomethane	BDL	0.025	mg/l	8260B	08/07/02	25
Chloroethane	BDL	0.025	mg/l	8260B	08/07/02	25
2-Chloroethyl vinyl ether	BDL	1.2	mg/l	8260B	08/07/02	25
Chloroform	BDL	0.12	mg/l	8260B	08/07/02	25
Chloromethane	BDL	0.025	mg/l	8260B	08/07/02	25
2-Chlorotoluene	BDL	0.025	mg/l	8260B	08/07/02	25
4-Chlorotoluene	BDL	0.025	mg/l	8260B	08/07/02	25
1,2-Dibromo-3-Chloropropane	BDL	0.050	mg/l	8260B	08/07/02	25
1,2-Dibromoethane	BDL	0.025	mg/l	8260B	08/07/02	25
Dibromomethane	BDL	0.025	mg/l	8260B	08/07/02	25
1,2-Dichlorobenzene	BDL	0.025	mg/l	8260B	08/07/02	25
1,3-Dichlorobenzene	BDL	0.025	mg/l	8260B	08/07/02	25
1,4-Dichlorobenzene	BDL	0.025	mg/l	8260B	08/07/02	25
Dichlorodifluoromethane	BDL	0.025	mg/l	8260B	08/07/02	25
1,1-Dichloroethane	BDL	0.025	mg/l	8260B	08/07/02	25
1,2-Dichloroethane	BDL	0.025	mg/l	8260B	08/07/02	25
1,1-Dichloroethene	BDL	0.025	mg/l	8260B	08/07/02	25
cis-1,2-Dichloroethene	BDL	0.025	mg/l	8260B	08/07/02	25
trans-1,2-Dichloroethene	BDL	0.025	mg/l	8260B	08/07/02	25
1,2-Dichloropropane	BDL	0.025	mg/l	8260B	08/07/02	25
1,1-Dichloropropene	BDL	0.025	mg/l	8260B	08/07/02	25
1,3-Dichloropropane	BDL	0.025	mg/l	8260B	08/07/02	25
cis-1,3-Dichloropropene	BDL	0.025	mg/l	8260B	08/07/02	25
trans-1,3-Dichloropropene	BDL	0.025	mg/l	8260B	08/07/02	25
2,2-Dichloropropane	BDL	0.025	mg/l	8260B	08/07/02	25

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : GP-9
Collected By : Matt Mitchell
Collection Date : 07/29/02 16:20

ESC Sample # : L85106-08
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-isopropyl ether	BDL	0.025	mg/l	8260B	08/07/02	25
Ethylbenzene	BDL	0.025	mg/l	8260B	08/07/02	25
Hexachlorobutadiene	BDL	0.025	mg/l	8260B	08/07/02	25
Isopropylbenzene	BDL	0.025	mg/l	8260B	08/07/02	25
p-Isopropyltoluene	BDL	0.025	mg/l	8260B	08/07/02	25
2-Butanone (MEK)	BDL	1.2	mg/l	8260B	08/07/02	25
Methylene Chloride	BDL	0.12	mg/l	8260B	08/07/02	25
4-Methyl-2-pentanone (MIBK)	BDL	1.2	mg/l	8260B	08/07/02	25
Methyl tert-butyl ether	BDL	0.025	mg/l	8260B	08/07/02	25
Naphthalene	BDL	0.12	mg/l	8260B	08/07/02	25
n-Propylbenzene	BDL	0.025	mg/l	8260B	08/07/02	25
Styrene	BDL	0.025	mg/l	8260B	08/07/02	25
1,1,1,2-Tetrachloroethane	BDL	0.025	mg/l	8260B	08/07/02	25
1,1,2,2-Tetrachloroethane	BDL	0.025	mg/l	8260B	08/07/02	25
Tetrachloroethene	0.74	0.025	mg/l	8260B	08/07/02	25
Toluene	BDL	0.12	mg/l	8260B	08/07/02	25
1,2,3-Trichlorobenzene	BDL	0.025	mg/l	8260B	08/07/02	25
1,2,4-Trichlorobenzene	BDL	0.025	mg/l	8260B	08/07/02	25
1,1,1-Trichloroethane	BDL	0.025	mg/l	8260B	08/07/02	25
1,1,2-Trichloroethane	BDL	0.025	mg/l	8260B	08/07/02	25
Trichloroethene	BDL	0.025	mg/l	8260B	08/07/02	25
Trichlorofluoromethane	BDL	0.025	mg/l	8260B	08/07/02	25
1,2,3-Trichloropropane	BDL	0.025	mg/l	8260B	08/07/02	25
1,2,4-Trimethylbenzene	BDL	0.025	mg/l	8260B	08/07/02	25
1,3,5-Trimethylbenzene	BDL	0.025	mg/l	8260B	08/07/02	25
Vinyl chloride	BDL	0.025	mg/l	8260B	08/07/02	25
Xylenes, Total	BDL	0.075	mg/l	8260B	08/07/02	25
Surrogate Recovery						
Toluene-d8	98.		% Rec.	8260B	08/07/02	25
Dibromofluoromethane	100		% Rec.	8260B	08/07/02	25
4-Bromofluorobenzene	92.		% Rec.	8260B	08/07/02	25

Tom Mellette, ESC Representative

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. William Eckhoff
URS Corporation - Cincinnati
36 East 7th Street Suite 2300
Cincinnati, OH 45202

August 08, 2002

Date Received : August 01, 2002
Description : Tuchman Cleaners/ Keystone
Sample ID : GP-15
Collected By : Matt Mitchell
Collection Date : 07/29/02 14:15

ESC Sample # : L85106-09
ESC Key : DAMESOH-30351013121
Site ID :
Project # : 30351-022-121

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	12.	mg/l	8260B	08/05/02	250
Acrolein	BDL	12.	mg/l	8260B	08/05/02	250
Acrylonitrile	BDL	12.	mg/l	8260B	08/05/02	250
Benzene	BDL	0.25	mg/l	8260B	08/05/02	250
Bromobenzene	BDL	0.25	mg/l	8260B	08/05/02	250
Bromodichloromethane	BDL	0.25	mg/l	8260B	08/05/02	250
Bromoform	BDL	0.25	mg/l	8260B	08/05/02	250
Bromomethane	BDL	0.25	mg/l	8260B	08/05/02	250
n-Butylbenzene	BDL	0.25	mg/l	8260B	08/05/02	250
sec-Butylbenzene	BDL	0.25	mg/l	8260B	08/05/02	250
tert-Butylbenzene	BDL	0.25	mg/l	8260B	08/05/02	250
Carbon tetrachloride	BDL	0.25	mg/l	8260B	08/05/02	250
Chlorobenzene	BDL	0.25	mg/l	8260B	08/05/02	250
Chlorodibromomethane	BDL	0.25	mg/l	8260B	08/05/02	250
Chloroethane	BDL	0.25	mg/l	8260B	08/05/02	250
2-Chloroethyl vinyl ether	BDL	12.	mg/l	8260B	08/05/02	250
Chloroform	BDL	1.2	mg/l	8260B	08/05/02	250
Chloromethane	BDL	0.25	mg/l	8260B	08/05/02	250
2-Chlorotoluene	BDL	0.25	mg/l	8260B	08/05/02	250
4-Chlorotoluene	BDL	0.25	mg/l	8260B	08/05/02	250
1,2-Dibromo-3-Chloropropane	BDL	0.50	mg/l	8260B	08/05/02	250
1,2-Dibromoethane	BDL	0.25	mg/l	8260B	08/05/02	250
Dibromomethane	BDL	0.25	mg/l	8260B	08/05/02	250
1,2-Dichlorobenzene	BDL	0.25	mg/l	8260B	08/05/02	250
1,3-Dichlorobenzene	BDL	0.25	mg/l	8260B	08/05/02	250
1,4-Dichlorobenzene	BDL	0.25	mg/l	8260B	08/05/02	250
Dichlorodifluoromethane	BDL	0.25	mg/l	8260B	08/05/02	250
1,1-Dichloroethane	BDL	0.25	mg/l	8260B	08/05/02	250
1,2-Dichloroethane	BDL	0.25	mg/l	8260B	08/05/02	250
1,1-Dichloroethene	BDL	0.25	mg/l	8260B	08/05/02	250
cis-1,2-Dichloroethene	BDL	0.25	mg/l	8260B	08/05/02	250
trans-1,2-Dichloroethene	BDL	0.25	mg/l	8260B	08/05/02	250
1,2-Dichloropropane	BDL	0.25	mg/l	8260B	08/05/02	250
1,1-Dichloropropene	BDL	0.25	mg/l	8260B	08/05/02	250
1,3-Dichloropropane	BDL	0.25	mg/l	8260B	08/05/02	250
cis-1,3-Dichloropropene	BDL	0.25	mg/l	8260B	08/05/02	250
trans-1,3-Dichloropropene	BDL	0.25	mg/l	8260B	08/05/02	250
2,2-Dichloropropane	BDL	0.25	mg/l	8260B	08/05/02	250

BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233