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# SITE ASSESSMENT AND EXTENT OF CONTAMINATION REPORT FOR THE 76th AND PARNELL SITE CHICAGO, COOK COUNTY, ILLINOIS

**Prepared for**

**U.S. Environmental Protection Agency**
Emergency and Remedial Response Branch
Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

**Prepared by**

**Weston Solutions, Inc.**
70 West Madison Street, Suite 1990
Chicago, Illinois 60602

| | |
|---|---|
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| START Project Manager: | Richard H. Mehl, Jr. |
| Telephone No.: | (312) 424-3300 |
| U.S. EPA On-Scene Coordinator: | Michael Harris |

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**Prepared by**

**Weston Solutions, Inc.**
70 West Madison Street, Suite 1990
Chicago, Illinois 60643

**February 2003**

Prepared by _____ Date 02/05/03
for James Molholm
START Associate Project Scientist

Approved by _____ Date 02/05/03
Richard H. Mehl, Jr.
START Project Manager

Approved by _____ Date 2/5/03
for Pamela Bayles
START Program Manager

**Weston Solutions, Inc.**
3 First National Plaza, Suite 1990
70 W. Madison Street
Chicago, IL 60602-4206
312-424-3300 • Fax 312-424-3330
www.westonsolutions.com

5 February 2003

Mr. Michael Harris
On-Scene Coordinator
U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

U.S. EPA Contract No.: 68-W-00-119
TDD Number.: S05-0208-003
Document Control No.: 293-2A-ACUF

Re: 76th and Parnell Site, Chicago, Illinois
Site Assessment and Extent of Contamination Report, Revision 0

Dear Mr. Harris:

Weston Solutions, Inc. (WESTON®) is pleased to submit for U.S. EPA's review three copies of the Site Assessment and Extent of Contamination Report, Revision 0 for the 76th and Parnell Site, Chicago, Illinois. If you have any questions or require additional information, please feel free to contact us.

Very truly yours,

Weston Solutions, Inc.

Richard H. Mehl, Jr.
Site Manager

Enclosure

cc: Ms. Gail Nabasny, START Project Officer, U.S. EPA Region V (SE-5J)



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## LIST OF ABBREVIATIONS AND ACRONYMS

| | |
|---|---|
| ACM | Asbestos Containing Material |
| ASTM | Association of Standard Testing Methods |
| CTE | Consoer Townsend Envirodyne Engineers, Inc. |
| bgs | below ground surface |
| CFR | Code of Federal Regulations |
| ft | feet |
| GPS | global positioning system |
| HASP | health and safety plan |
| IDW | investigative derived wastes |
| mg/kg | milligrams per kilogram |
| mg/L | milligrams per liter |
| OSC | On-Scene Coordinator |
| OSHA | Occupation Safety and Health Administration |
| PCBs | polychlorinated biphenyl compounds |
| PID | photoionization detector |
| PNAs | polynuclear aromatic hydrocarbons |
| ppm | parts per million |
| PRGs | Preliminary Remediation Goals |
| PVC | poly vinyl chloride |
| RCRA | Resource Conservation Recovery Act |
| SRO | Soil Remediation Objective |
| START | Superfund Technical Assessment and Response Team |
| STL | Severn Trent Laboratories |
| Suburban | Suburban Laboratories |
| SVOCs | semivolatile organic compounds |
| TAL | Target Analyte List |
| TCLP | Toxicity Characteristics Leaching Procedure |
| TDD | Technical Document Directive |
| TSCA | Toxic Substances Control Act |
| IEPA TACO | Illinois Environmental Protection Act, Title 35, Part 742, Tiered Approach to Corrective Action Objectives |
| TOC | total organic carbon |
| USCS | Unified Soil Classification System |
| U.S. EPA | United States Environmental Protection Agency |
| VOCs | volatile organic compounds |
| WESTON | Weston Solutions, Inc. |

# SECTION 1
# INTRODUCTION

On 18 December 2002, United States Environmental Protection Agency (U.S. EPA) On-Scene Coordinators (OSCs) Michael Harris and Steve Faryan and the Weston Solutions, Inc. (WESTON) Superfund Technical Assessment and Response Team (START) initiated a Site Assessment and extent of contamination investigation at the 76th and Parnell Site located in Chicago, Cook County, Illinois. The Site Assessment activities were conducted under Technical Document Directive (TDD) S05-0208-003.

The Site Assessment was conducted from 18 December through 20 December 2002, and consisted of the sampling of surface and subsurface soil and the installation of two temporary monitoring wells. In addition, START obtained and reviewed available background information related to the property located between 519 West 76th Street and 555 West 76th Street, hereafter referred to as the 76th and Parnell Site, including a Phase I Environmental Site Assessment (ESA) (Consoer Townsend Environdyne Engineers, Inc [CTE], 2002a) and a Comprehensive Site Investigation Report (CTE, 2002b).

## 1.1 REPORT ORGANIZATION

This Site Assessment report is organized into the following sections:

- Introduction and Background -- The introduction provides a brief description of the objective and scope of the Site Assessment activities. This section also provides the site description, site history, a summary of the surrounding land use, and potential source areas.

- Environmental Investigation Procedures -- This section describes the methods and procedures used during the Site Assessment activities.



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- Environmental Investigation Results -- This section describes the results of the Site Assessment activities.

- Geolologic and Hydrogeologic Investigtation Results -- This section compiles data and presents the results of the geologic and hydrogeologic site characterization activities.

- Nature and Extent of Contamination -- This section discusses the nature and extent of surface and subsurface soil contamination.

- Conclusions and Recommendations -- This section presents conclusions and recommendations for response actions at the 76th and Parnell Site.

- References -- This section provides a list of references utilized in compiling the report.

## 1.2 PROJECT OBJECTIVES AND SCOPE OF SITE ASSESSMENT

The objective of this Site Assessment was to gather site-specific information to verify and expand upon existing information, and to support the development of removal/remedial action alternatives. Specific objectives of the Site Assessment were as follows:

- Determine the nature and extent of contamination using laboratory analysis of environmental media as well as field observations and measurements.

- Evaluate the nature and extent of contamination based on the Tier 1 soil remediation objectives for residential properties provided in the Tiered Approach to Corrective Action Objectives (TACO) 35 Illinois Administrative Code (IAC) Part 742 (Illinois Pollution Control Board [IPCB], 2002a).

- Evaluate the nature and extent of characteristically hazardous soil present at the site due to concentrations of toxicity characteristics leaching procedure (TCLP) lead above the regulatory limit of 5.0 milligrams per liter (mg/L).

The Site Assessment was conducted in accordance with the START Sampling Plan for Emergency Response/Site Assessment (WESTON, December 2002).



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## 1.3 SITE DESCRIPTION

The 76th and Parnell Site is located between 519 West 76th Street and 555 West 76th Street in Chicago, Cook County, Illinois (Figure 1-1). The geographic coordinates of the site are 41° 45' 28" north latitude and 87° 38' 15" west longitude, at an approximate altitude of 595 feet (ft) above sea level. The 76th and Parnell Site encompasses approximately 7 acres.

The site is an irregular-shaped area bounded to the north by residential and vacant properties along West 76th Street; to the east by an elevated Metra train track, immediately followed by residential properties; to the south by residential and commercial properties along West 78th Street; and to the west by a set of elevated Chicago & Western Illinois Railroad and Lyle Park. A site base map of the 76th and Parnell Site is shown in Figure 1-2. The land surrounding the 76th and Parnell Site currently consists of a mixture of residential, commercial, railroad, and parkland properties.

Towards the southern tip of the 76th and Parnell Site, a steep slope is present grading towards West 78th Street. Due to this slope, there is the potential for surface water to flow off site.

The area within a $^1\backslash_4$- mile of the site also contains: a public school located east of the site, identified as the Harvard School, and a small lake located southeast of the site, identified as Auburn Lake.

During the Site Assessment, large pile of stockpiled soil was located in the southwestern portion of the site (Figure 1-2). A smaller pile of asbestos-containing materials (ACM) and a large pile of abandoned railroad ties were also located at the site. START used a global positioning system (GPS) to collect measurements around the extent of the stockpiled soil and the ACM area. START estimates the volume of stockpiled soil to be approximately 2,500 cubic yards ($yd^3$) (based on an area approximately 75 ft by 75 ft and an average height of 12 ft), and the ACM covers an area approximately 75 ft by 12 ft. START also observed a concrete foundation that was present in the



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central portion of the site.

According to the Phase I ESA completed by CTE, the surface soil at the site can be classified as urban land, consisting of silt loam, fine sandy loam, loam, and fine sand to an approximate depth of 5 ft below ground surface (bgs). Following the completion of an initial subsurface investigation conducted on 27 June and on 2 and 3 July 2002, CTE noted the presence of fill material to an approximate depth of 4 ft bgs and the presence of sand from approximately 4 to 11 ft bgs in the Comprehensive Site Investigation Report (CTE, 2002b).

Service utilities did not appear to be connected to the 76th and Parnell Site. The Phase I ESA noted the presence of storm drains at the site property; however, the sewers were not observed during the Site Assessment activities.

## 1.4 SITE HISTORY

Historical records dating back to 1897 for the 76th and Parnell site were obtained by CTE (CTE, 2002a). Historical information was obtained from Historical Sanborn Library LLC maps and from Freedom of Information Act (FOIA) requests made by CTE to various government agencies, including the Illinois Environmental Protection Agency (IEPA) and the City of Chicago Department of Environment (CDOE). Historical information for the period from 1897 until 2002 was obtained from the Phase I ESA that was completed by CTE (CTE, 2002a).

Historical records indicate that, in 1897, the site was occupied by Staver and Abbott Manufacturing Company (Staver and Abbott). The Staver and Abbott operations included approximately 11 buildings. These buildings were used as storage facilities and workshops. Significant site features included a boiler room, which was noted as being asbestos covered, coal and wood waste piles, lumber storage, a coke shed, an incinerator room, and three elevators within the main building. The site was located between the two rail lines, although the rail lines appear to have been at ground level



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in 1897. Five railroad spur lines entered the site from the east to serve the northern and central sections of the site. The southern portion of the site was occupied by the Auburn Station, and contained two railroad spurs which served Woodruff and Kroy - Cooperage Stock Warehouse, a wood products company, located in the southern portion of the property (CTE, 2002a).

By 1910, Sanborn maps indicate that the site was occupied by Staver Carriage Company, a manufacturer of carriages and automobiles. The Staver Carriage Company appeared to have operated a gear painting, motor assembly, painting, varnishing, and machining facilities, among other uses (CTE, 2002a). A 100,000-gallon water reservoir and a 30,000-gallon water tank were also located at the property.

By 1924, Studebaker Corporation occupied the site (CTE, 2002a). A gasoline tank of unknown size was apparently in use at the site. The Studebaker Corporation abandoned operations at the site prior to 1941; however, the exact date is unknown.

Between 1941 and 1993, various industrial and warehousing occupants occupied the site (CTE, 2002a). Former tenants include Amer Processing Co. Metals and Finishing, Macco Products Co., Industrial Cleaners, Lamar Metal Finishers, Windsor Sheet Metal Works, and C & C Metal Finishing. A small paint storage facility was identified on the eastern portion of the site in 1975, 1987, 1989, and 1992 Sanborn maps.

On 19 July 1993, CDOE received a complaint of illegal dumping at the site. It does not appear that any enforcement action was completed with regard to this complaint (CTE, 2002a).

Prior to planned demolition activities at the site, a CDOE Site Assessment was completed on 18 July 1995. The inspection of four buildings located at 531 West 76th Street found ten 40-gallon paint and varnish containers, and 27 55-gallon drums which contained debris, glycol, methanol, muratic acid, soap, and unknown liquids. The CDOE also noted the possible presence of two underground storage



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tanks, apparently abandoned in place and filled with sand, between two buildings (identified as buildings B and C in CDOE incident response data sheet [CTE, 2002a]). The inspection also noted the presence of more than 1,250 linear ft of ACM on piping and floors and various piles of suspect ACM within the debris scattered throughout the property.

On 22 January 1996, CDOE issued a $200 fine to Alfred Juarzed of the American Demoltion Corporation for causing atmospheric pollution and allowing the open burning of debris.

On 7 December 1995, the City of Chicago (currently listed as the site owner) filed a notification of demolition and renovation with the IEPA. The building demolition was completed in 1995 (CTE, 2002a).

During the site investigation of the Phase I ESA, CTE discovered the presence of several 55-gallon drums within the wooded area of the southern portion of the site. One of these drums was removed by Ellfuent Technology, Inc. on 27 June 2002 (CTE, 2002a). Laboratory analyses of the contents indicated that the drum contained flammable mineral spirits.

The site was reported to the U.S. EPA and on 6 August 2002 U.S. EPA OSC Steve Faryan and START personnel conducted an emergency Site Assessment and sampling activities (WESTON, 2002). The southern portion of the site was heavily wooded, and clearing activities had to be completed in order to gain access to the location of the drums. A total of four drum samples were collected (D-1, D-3, D-4, and D-5) from the drums that were easily accessible. START also collected five soil samples (S-1, S-2, S-3, S-4, and S-6) from soil that had visual staining and where drum contents had apparently spilled onto the ground.

The drum samples were analyzed for TCLP metals, reactive cyanide, reactive sulfide, pH, and flashpoint. A paint filter analysis was also conducted. Soil samples S-1, S-2, and S-3 were also analyzed for TCLP metals, reactive cyanide, reactive sulfide, pH, flashpoint, and paint filter. Soil



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samples S-4 and S-6 were only analyzed for TCLP metals and Target Analyte List (TAL) metals. Laboratory analysis was completed by Severn Trent Laboratories (STL) in University Park, Illinois. Sample results indicated lead concentrations in two of the soil samples that were above the U.S. EPA Region IX Preliminary Remediation Goals (PRGs) and the Illinois Tiered Approach to Corrective Action Objectives (TACO) Tier 1 Soil Remediation Objectives for Industrial/Commercial properties. Soil sample S-4 had a lead concentration of 1,100 milligrams per kilogram (mg/kg), and soil sample S-6 had a lead concentration of 5,800 mg/kg.

On 27 June 2002 and on 2 and 3 July 2002, CTE conducted a subsurface investigation for the site (CTE, 2002b). Laboratory analysis of soil and groundwater samples collected during this investigation detected concentrations of metals, volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs) including polynuclear aromatics (PNAs). Concentrations of benzo(a)pyrene, benzo(a)anthracene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were detected at concentrations above the IEPA TACO Tier I Soil Remediation Objectives for residential properties. Additionally, total lead concentrations were detected above 400 milligrams per kilogram (mg/kg). The highest lead concentration detected at the site was 5,070 mg/kg. Analytical results identified concentrations of TCLP lead that exceeded 5.0 mg/L, indicating that some soil should be considered characteristically hazardous waste (CTE, 2002b).

The CDOE and CTE conducted additional investigative activities following 3 July 2002. Additional areas of contamination were identified within the northern section of the site. The CDOE estimated that approximately 1,557 $yd^3$ of soil contained TCLP lead concentrations above 5.0 mg/L (Ahumada, 2003). An additional 743 $yd^3$ of soil were identified as exceeding Illinois TACO soil remediation objectives.

When the U.S. EPA and START arrived at the 76th and Parnell Site on 18 December 2002, the heavily wooded area in the southern portion of the site had been cleared. A large soil pile of approximately 2,500 $yd^3$, and piles of asbestos, railroad ties, and crushed drums were also evident.



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# SECTION 2

# ENVIRONMENTAL INVESTIGATION PROCEDURES

From 18 December through 20 December 2002, a Site Assessment of the 76th and Parnell Site was conducted by the U.S. EPA and START personnel to determine the nature and extent of surface and subsurface soil contamination. On-site personnel included U.S. EPA OSCs Michael Harris, Steve Faryan, and Craig Thomas; and START personnel Barry Crawford and James Molholm. This section describes the procedures that were used during the Site Assessment. Specific Site Assessment activities included:

- Site Layout and Horizontal Survey of Surface and Subsurface Sampling Locations.
- Soil Boring Investigation.
- Subsurface Soil Sampling.
- Surface Soil Sampling.
- Installation of Temporary Monitoring Wells.
- Geotechnical Testing.

Prior to beginning field investigations, START prepared a site-specific Health and Safety Plan (HASP) (WESTON, 2002), which described the safety protocols for the field activities. The HASP was prepared in accordance with the Occupational Safety and Health Administration (OSHA) requirements set forth in Title 29, Part 1910 of the Code of Federal Regulations (29 CFR Part 1910) and other applicable requirements.

## 2.1 SOIL SAMPLING ACTIVITIES

Drilling services were provided by Mid America Drilling Corporation of Elburn, Illinois. A track-mounted Diederich D-50 Turbo ATV combo rig equipped with a hydraulically pressure-driven soil sampler (GeoProbe®) was utilized to obtain soil samples to a maximum depth of 21 ft bgs. The



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Diederich 5-50 Turbo ATV combo rig drove a 4-foot long, 2.2-inch diameter hollow MacroCore® sampler into the ground by means of a motor-driven hydraulic hammer. The MacroCore® sampler was lined with a disposable acetate sleeve to aid in sample collection and to preserve the cleanliness of the interior of the sampler. Each discrete soil sampling interval recovered from the subsurface was logged by qualified START personnel using the Unified Soil Classification System (USCS), and specific sample intervals were collected and preserved for laboratory analysis.

A total of 18 soil borings (SB-101 through SB-118) were sampled continuously and screened visually. Soil borings completed on 18 December 2002 (SB-101 through SB-108) were also screened with a photoionization detector (PID). However, PID measurements did not exceed the background levels within any of the soil sampling intervals screened. Therefore, upon the approval of OSC Harris, soil borings advanced on 19 December 2002 (SB-109 through SB-118) were not screened with a PID.

Two soil samples were collected from each of the 18 soil borings and submitted for laboratory analysis. In each boring, one representative soil sample was collected from the surface soil interval (0- to 3-ft bgs). A total of 18 investigative soil samples were collected from the surface soil. One soil sample was also collected from each soil boring from the soil sampling interval below 3 ft bgs that characterized the capillary fringe, which is the boundary between the saturated and unsaturated zones in the subsurface soil. A total of 18 investigative subsurface soil samples were collected to determine the vertical extent of contamination within each boring. Sample interval depths for each soil boring are shown in the boring logs in Appendix A.

All soil samples were transported to Suburban Laboratories (Suburban) of Hillside, Illinois, and submitted under chain-of-custody protocol for analysis. A total of 36 investigative soil samples were analyzed for PNAs (SW846-8270C SIM), 32 investigative soil samples were analyzed for Resource Conservation and Recovery Act (RCRA) metals (SW846-6010B/7471A), and four investigative soil samples were analyzed for TAL metals (SW846-6010B/7471B) and total cyanide (SW846-9014).



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All of the soil samples analyzed for either RCRA or TAL metals were also analyzed for pH (SW846-9045C). A total of 18 investigative soil samples were analyzed for VOCs (SW846-5035/8260B), and four investigative soil samples were analyzed for SVOCs (SW846-8270C), pesticides/polychlorinated biphenols (PCBs) (SW846-8081A), and TCLP lead (SW846-1311/7421). Duplicate samples were collected from approximately 10 percent (%) of the samples submitted for each laboratory analysis. Two investigative soil samples were analyzed for grain size (Association of Standard Testing Methods [ASTM]-E112) and total organic carbon (TOC) (SW846-9060).

All soil cuttings generated during subsurface soil sampling activities were replaced down the open boreholes. Each soil boring was then backfilled with granular bentonite to grade; to prevent the downward migration of surface water.

A strict decontamination procedure was followed during drilling activities. The typical procedures involved in the decontamination of sampling equipment (MacroCore sampler and GeoProbe rods) included the following steps:

- Scrub sampling equipment with an Alconox solution using soft-bristle brushed to remove soil or other materials from sampling devices.
- Rinse equipment with water and allow to air dry.

Additionally, disposable nitrile gloves were worn by START personnel during subsurface soil sampling activities in order to prevent cross-contamination between soil sampling intervals. Investigation derived wastes (IDW) (disposable nitrile gloves, acetate sleeves, and residual soil) were placed in steel 55-gallon drums, and are stored on the site awaiting disposal.

A total of 26 investigative soil samples (SS-101 through SS-125 and SS-130) were collected from the surface soil. Nineteen of the 26 surface soil samples (SS-101 through SS-119) were collected from the southern portion of the site, and 7 surface soil samples (SS-120 through SS-125 and SS-



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130) were collected from the northern portion of the site.

Surface soil sample locations in the southern portion of the site were selected from the sample grids that were not characterized by a soil boring. Surface soil sample locations in the northern portion of the site were selected in order to verify surface soil sampling results from a previous site investigation completed by CTE (CTE, 2002b). Three surface soil samples (SS-120, SS-121, and SS-122) were placed adjacent to CTE sampling locations containing elevated concentrations of lead. Four surface soil samples (SS-123, SS-124, SS-124, and SS-130) were selected to horizontally delineate the surface lead contamination in the northern portion of the site. Surface soil samples were collected using disposable plastic scoops from the 0- to 6-inch depth interval in the southern portion of the site and from the 0- to 9-inch depth interval in the northern portion of the site. Surface soil sampling locations are shown in Figure 2-1.

All soil samples were transported to Suburban and submitted under chain-of-custody protocol for analysis of total lead (SW846-6010B). Additionally, based on the results of the lead concentration detected in SS-107, SS-111, SS-118, and SS-122, these samples were analyzed for TCLP lead.

Disposable scoops were used only once and nitrile gloves were worn by START personnel during surface soil sampling activities in order to prevent cross-contamination between soil sample locations. IDW (disposable nitrile gloves and disposable scoops) was placed in steel 55-gallon drums, and are stored on the site awaiting disposal.

## 2.2 SITE LAYOUT/SOIL SAMPLE LOCATION RATIONALE AND HORIZONTAL CONTROL SURVEY

A sample grid was created using a 50-foot spacing interval throughout the investigative area. Soil boring locations were then selected within each established grid section. Obstructions, such as stockpiled soil and piles of railroad ties, caused the locations of the soil borings to be offset from the



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planned soil boring locations.

On 19 and 20 December 2002, following the soil boring investigation and surface soil sampling, START used a GPS unit at the 76th and Parnell Site to identify the soil sampling locations.

The sample locations were identified using a Trimble Pro-XRS GPS unit equipped with a TCS1 Data Logger. The system was handheld, with a backpack-mounted battery system. Global positioning data was differentially corrected onsite in real-time; therefore, no post processing was required. This real-time differential correction allowed for position accuracy in the sub-meter range. The real-time data was downloaded from the TSC1 Data Logger to PATHFINDER Office software, and projected into the State Plane IL NAD 83 coordinate system. Once the data was in the correct coordinate system, the data was exported via an ARCVIEW shape file, where the coordinates and identification indicators were stored as attributes in AutoCAD software, and presented in Figure 2-1.

Figure 2-1 illustrates the boundaries of the site, railroad lines, excavated soil piles, and other pertinent features of the site. Figure 2-1 also illustrates the soil boring locations and surface soil sampling locations associated with this Site Assessment.

## 2.3 INSTALLATION OF TEMPORARY WELLS

Temporary monitoring wells were installed at the site so that future groundwater sampling activities could be conducted, if necessary. Drilling for the installation of the temporary monitoring wells within soil borings SB-101 and SB-115 was conducted using standard hollow stem auger drilling techniques. The 1-inch inner diameter, temporary monitoring wells were advanced using 8-inch outer diameter (4.25-inch inner diameter) hollow stem augers. At the temporary well locations, the borehole was advanced to the completion depth (15 to 19 ft bgs) and the temporary wells were installed as outlined in the following procedure:



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- Drilling was continued until the desired depth for placement of the bottom of the well screen, which was 19 ft in SB-101 and 15 ft in SB-115.
- The completion depth of the well was selected so that the well screen straddled the watertable. For SB-101, the 10 ft well screen extended from a top depth of approximately 9 ft bgs to a bottom depth of 19 ft bgs. For SB-115, the 10 ft well screen extended from a top depth of approximately 5 ft bgs to a bottom depth of 15 ft bgs.
- Once the drilling reached the selected completion depth, the well casing and screen were placed down the borehole through the center of the hollow stem augers.
- Temporary wells were constructed using 1-inch inner-diameter polyvinyl chloride (PVC) riser and a 10-ft length of 0.010-inch slot, 1-inch inner-diameter PVC screen.
- The annular space around each well screen was backfilled with clean silica sand that was compatible with the screen slot size (0.010-inch) to form a filter pack. The filter pack extended from the bottom of the well screen to approximately 1 ft above the top of the well screen.
- A high-solids bentonite pellet seal was installed above the filter pack in the wells.
- The well riser extended above ground surface and was staked off in order to protect the well from the clearing/grading activities at the site.

START has not completed the development of the temporary wells installed at the site at this time. Should groundwater sampling activities be required for the site, the temporary wells will be developed to remove sediments from the well screen and filter pack and to establish a hydrualic connection to the aquifer.

## 2.4 DATA VALIDATION/MANAGEMENT

All laboratory analytical data was validated by a WESTON Data Validator, following the guidelines for data validation, which are presented in:



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- Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses - U.S. EPA, October 1999.

- Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses - U.S. EPA, February 1994.

Upon receipt of the laboratory data package, the Sample Management Coordinator inspected each package for completeness. Completeness was evaluated by auditing the data package for:

- Chain-of-custody records.
- Technical holding times.
- Required analytical methods.
- Reporting limits.
- Reporting format.
- Laboratory and field quality control (QC) reporting forms (blanks, calibrations, laboratory control samples, duplicates, matrix spikes, ect., as appropriate).
- Appropriate supporting data.
- Case narrative.
- Completeness of results.

Details of this data validation can be seen in the validated data included in Appendix B.



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# SECTION 3

# ENVIRONMENTAL INVESTIGATION RESULTS

A Site Assessment was conducted to determine the nature and extent of contamination at the 76th and Parnell Site. This section presents a detailed discussion of the environmental investigation results obtained through the completion of the Site Assessment. Included are the results of the soil boring sampling and surface soil sampling. Geologic testing data and interpretations are presented in Section 4. Complete copies of the analytical data are included in Appendix B.

## 3.1 SOIL SAMPLING ANALYTICAL RESULTS

A total of 18 soil borings (SB-101 through SB-118) were advanced during the Site Assessment. A total of 36 investigative soil samples were analyzed for PNAs, RCRA metals or TAL metals, and pH. Of these 36 investigative samples, 18 were analyzed for VOCs, five were analyzed for SVOCs, five were analyzed for pesticides/PCBs, and five were analyzed for TCLP lead. Samples were submitted to Suburban under chain-of-custody protocol for analysis of chemical constituents. Sample interval depths for each soil boring are shown in the soil boring logs in Appendix A.

In addition, a total of 26 surface soil samples were collected during the Site Assessment and analyzed for total lead. Based upon the results of the total lead analysis, four of the surface soil samples (SS-107, SS-111, SS-118, and SS-122) were also analyzed for TCLP lead.

Field parameters were collected during the first day of the subsurface investigation. A PID was used to screen for the presence of volatilized organic compounds. Field screenings using a PID revealed low readings in all of the borings that were screened. The measurable readings of soil borings SB-101 through SB-104 ranged from 0.7 to 2.2 units, with the highest reading obtained in the 0- to 3-ft interval in boring location SB-101. Olfactory evidence of soil contamination was not observed in any of the samples collected during the subsurface or surface soil investigations. Field screening



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results collected during the drilling are included on the soil boring logs provided in Appendix A.

## 3.2 EVALUATION OF ANALYTICAL RESULTS

Detected chemical concentrations were compared to the regulatory limit for the characteristic of toxicity for hazardous waste for TCLP lead (5.0 mg/L) as defined in 40 CFR Part 266 (2001) and the Tier 1 soil remediation objectives provided in 35 IAC Part 742, TACO (IEPA, 2001). Soil analytical results were compared to the TCLP lead regulatory limit of 5.0 mg/L, the most conservative TACO soil remediation objective for the ingestion and inhalation exposure routes for residential properties, and the TACO soil component of the migration to Class I groundwater exposure routes. Soil analytical results were compared to the various residential criteria based upon the City of Chicago's planned use of the property as a housing development (CTE, 2002a).

The Site Assessment soil sampling analytical results are provided in Tables 3-1 through 3-8. The Site Assessment soil sampling analytical results and the TACO Tier I soil remediation objectives are provided in Tables 3-1 through 3-10. The locations of constituents present in soil samples at concentrations above the regulatory limit for TCLP lead are illustrated in Figure 3-1. The locations of constituents present in soil samples at concentrations above the TACO Tier I soil remediation objectives for the ingestion/inhalation exposure routes and the soil component of the migration to Class I groundwater exposure route are provided in Figures 3-2 and 3-3, respectively. Comparisons of analytical results to each of the remediation criteria are discussed in the following sections.

## 3.3 HAZARDOUS CHARACTERISTICS EVALUATION

Concentrations of TCLP lead detected in SB-118 (0 to 3 ft) and in surface samples SS-107 and SS-118 exhibited characteristics of hazardous waste. These sampling locations contain concentrations of TCLP lead above the 5.0 mg/L regulatory limit defined in 40 CFR Part 266, Appendix VII (2001).



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## 3.4 TACO TIER I EVALUATION

The Tier I soil remediation objectives for residential properties provided in 35 IAC Part 742 - TACO (Illinois Pollution Control Board [IPCB], 2002a) were used to evaluate the soil sampling analytical results. Analytical results were compared to the most conservative soil remediation objective from the ingestion and inhalation expousre routes, as well as the soil remediation objective for the soil component of the migration to groundwater for Class I groundwater to evaluate compliance with the soil remediation objectives.

As stated above, the Tier I remediation objectives for Class I groundwater were used to demonstrate compliance with the soil component of the groundwater ingestion exposure route. The remediation objectives for Class I groundwater were used, as a conservative measure, since a groundwater classification has not been completed in accordance with 35 IAC Section 620.210 (IPCB, 2002b). If a groundwater classification assessment is completed, and it is demonstrated that the groundwater beneath the site can be classified as Class II, then the remediation objectives for Class II groundwater may be used to demonstrate compliance with the soil component of the migration to Class I groundwater exposure route. In addition, the soil component of the migration to Class I groundwater exposure route can be eliminated from evaluation through the use of the City of Chicago Groundwater Ordinance (Ordinance #097990) (CDOE, 1997). This ordinance can be used as an institutional control since it prohibits the use and installation of drinking water wells in Chicago.

### 3.4.1 Tier I Ingestion and Inhalation Exposure Routes

As stated in Section 3.3.1, the following VOCs were detected at concentrations above the method detection limit: 2-butanone; acetone; benzene; bromoform; bromomethane; carbon disulfide; chloroform; ethylbenzene; m,p-xylene; o-xylene; methylene chloride; tetrachloroethene; toluene; and trichloroethene. However, no VOC concentrations exceeded the TACO Tier 1 remediation objectives for the



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ingestion/inhalation exposure routes for residential properties.

Among the SVOCs listed in Section 3.3.1 present at concentrations above the method detection limits, concentrations were present that exceeded the TACO Tier 1 remediation objectives for the ingestion/inhalation exposure routes for residential properties. The following SVOC compounds were present at concentrations above the TACO remediation objectives for residential properties (Figure 3-1): benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fuoranthene; dibenzo(a,h) anthracene; indeno(1,2,3-cd)pyrene; and N-nitrosodi-n-propylamine.

Concentrations of PNAs above the TACO Tier 1 remediation objectives for the ingestion/inhalation exposure routes were detected in a majority of the soil borings advanced in the southern portion of the 76th and Parnell Site (excluding SB-104, SB-109, SB-112, SB-113, and SB-117). The PNA exceedances were detected exclusively in the 0- to 3-ft sampling interval, and no exceedances were detected in the 7- to 11-ft sampling intervals.

A concentration of N-nitrosodi-n-propylamine above the Taco Tier 1 remediation objectives for the ingestion/inhalation exposure routes was detected in soil boring SB-112.

The metals present at concentrations above the method detection limits listed in Section 3.3.1 included: aluminum, barium, beryllium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, sodium, thallium, vanadium, and zinc. Additionally, concentrations of reactive cyanide were detected above the method detection limit. The only inorganic compound present at a concentration above the TACO Tier 1 remediation objectives for the ingestion/inhalation exposure routes was lead. Lead concentrations were detected at concentrations above the Tier 1 remediation objective (400 mg/kg) in both subsurface soil samples (SB-111, SB-115, SB-116, SB-118) and surface soil samples (SS-104 through SS-108, SS-111, SS-112, SS-115, SS-117 through SS-119, SS-122, SS-123, SS-125, and SS-130).



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### 3.4.2 Tier I Soil Component of the Migration to Groundwater Exposure Route

As stated in Section 3.3.1, the following VOCs were detected at concentrations above the method detection limit: 2-butanone; acetone; benzene; bromoform; bromomethane; carbon disulfide; chloroform; ethylbenzene; m,p-xylene; o-xylene; methylene chloride; tetrachloroethene; toluene; and trichloroethene. However, no VOC concentrations exceeded the TACO Tier 1 soil component of the migration to Class I groundwater remediation objectives.

SVOCs (listed in Section 3.3.1) were present at concentrations above the method detection limits. Several SVOCs were present at concentrations that exceeded the TACO Tier 1 soil component of the migration to Class I groundwater exposure route (Figure 3-3). Concentrations of benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; dibenzo(a,h) anthracene; indeno(1,2,3-cd)pyrene; napthalene; carbazole; nitrobenzene; and N-nitrosodi-n-propylamine were detected at concentrations above the Tier I soil component of the migration to Class I groundwater remediation objectives. These exceedances were detected in soil borings SB-103, SB-105, SB-106, SB-108, SB-110, SB-112, and SB-114 through SB-116, were limited to soil samples collected from the 0- to 3-ft depth interval, and are vertically delineated within each soil boring by the concentrations detected in the 7- to 11-ft sampling intervals.

For metals, the analytical results were compared to the pH-specific soil remediation objectives for inorganics and ionizing organics for the soil component of the groundwater ingestion route (Class I groundwater) listed in 35 IAC Part 742 Appendix B: Tier 1 Tables and Illustrations, Table C (IPCB, 2002a). For the inorganics listed in this table, the pH values for each soil sample were used to obtain the pH-specific remediation objective for that compound. Data was not available for certain compounds in the pH ranges 8.25 through 8.74 and 8.75 to 9.0. In addition, no data was available for pH values greater than 9.0. If a specific soil sample did not have a corresponding remediation value, due to the pH of that sample, no remediation objective was available. Lead does not have any pH-specific remediation values, therefore, to determine whether or not lead concentrations exceeded the soil component of the migration to groundwater route, TCLP lead values were used.



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As stated in Section 3.3.1, concentrations of TCLP lead were detected in soil boring samples (SB-104, SB-108, and SB-118) and surface soil samples (SS-107, SS-111, SS-118, and SS-122). TCLP lead concentrations above the Tier 1 soil component of the migration to Class I groundwater remediation objective were detected in subsurface samples SB-104, SB-108, and SB-118 as well as surface samples SS-107, SS-111, SS-118, and SS-122. TCLP lead exceedances were limited to either the 0- to 3-ft depth interval (subsurface samples) and 0- to 9-inch interval (surface samples).

In addition, TCLP lead concentrations detected in SB-108, SS-107, and SS-118 exceeded the characteristic of toxicity for hazardous waste, as defined in 35 IAC Section 721.124, for TCLP lead (5.0 mg/L) (IPCB, 2001). Therefore, pursuant to 35 IAC Section 742.305(e), the TACO exposure routes cannot be eliminated as long as the site soil exhibits this characteristic of toxicity for hazardous waste (IPCB, 2002a).



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# SECTION 4

# GEOLOGIC INVESTIGATION RESULTS

During the 76th and Parnell Site Assessment, 18 soil borings (SB-101 through SB-118) were advanced using a track-mounted Diederich D-50 Turbo ATV combo rig equipped with a GeoProbe® soil sampler to a maximum depth of 21 ft bgs. In addition, soil borings SB-101 and SB-115 were converted into temporary 1-inch diameter wells using 8-inch outer diameter hollow stem augers to the approximate depths of 19 ft bgs and 15 ft bgs, respectively.

Based on the soil borings advanced during the 76th and Parnell Site Assessment, four distinct strata were identified beneath the site: fill material, medium to fine grained sand, grey clay, and a second medium to fine grained sand layer. Sandy fill was observed across most of the site, with an approximate thickness ranging from 0.25 to 5.5 ft. However, based on the grubbing, clearing, and earth moving activities recently completed at the site, it is possible that in some areas, the surface soil has been buried under other materials. Within the fill material, brick, glass, and wood fragments were observed. Medium to fine grained sand was the predominant lithology observed beneath the fill layer and above depths of 9 to 14 ft bgs. Finally, a layer of grey clay was observed in many of the soil borings at depths ranging from approximately 10 to 14 ft bgs. Within the soil borings that were advanced to depths below 15 ft bgs (SB-101 and SB-118), a second medium to fine grained sand layer was observed.

Two soil samples collected from soil boring SB-109 were submitted for particle size analysis using American Society for Testing and Materials (ASTM) Method D-1140. Results of the analysis indicated that the soil sample collected from the 0- to 3-ft depth interval consisted of 69.5 % sand and 30.5 % silt/clay. The soil sample collected from the 7- to 11-ft depth interval consisted of 78 % sand and 22% silt/clay. The 18 soil borings advanced at the 76th and Parnell Site demonstrated lithologies that appear to be consistent with the results of the grain size analyses. Soil classification results are summarized in Table 4-1.



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Two soil samples collected from soil boring SB-110 were submitted for TOC (7471A). A TOC content of 737 mg/kg was reported for the 0- to 3-ft depth interval and a TOC content of 418 mg/kg was reported for the 7- to 11-ft depth interval. Since concentrations of organic contaminants (VOCs and PNAs) were detected within the 0- to 3-ft depth interval, the TOC value reported for this interval does not represent the natural attenuation capacity of the soil. The TOC value reported for the 7- to 11-ft depth interval more accurately represents the natural attenuation capacity of the soil; however, VOC concentrations were detected above the method detection limit from the 7- to 11-ft depth interval. TOC values are summarized in Table 4-2.



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# SECTION 5

# NATURE AND EXTENT OF CONTAMINATION

One of the objectives of the 76th and Parnell Site Assessment was to evaluate the nature and extent of contamination, so that informed decisions can be made regarding the level of risk contaminants at the site present and the appropriate type of removal/remedial action(s) necessary. To delineate the extent of soil contamination, analytical results were compared to screening levels, in particular, the regulatory limit for the characteristic of toxicity for hazardous waste for TCLP lead and the soil remediation objectives defined in the Illinois TACO regulations for the ingestion/inhalation and soil component of the migration to Class I groundwater exposure routes. Criteria levels for residential-use land were used to evaluate the data. Contaminants that exceeded the various criteria levels were PNAs, carbazole, N-nitrosodi-n-propylamine, and lead (both total and TCLP lead concentrations).

The comparisons of analytical results to the criteria levels were used to generate estimates of the area, depth, and volume of contaminated soil at the site. For each of the criteria levels, an estimate of the surface area of contamination was generated. Since the criteria levels vary between the characteristically hazardous waste and the Illinois TACO remediation objectives, the surface area estimates varied.

Compounds that exceeded the criteria levels consisted of lead and PNA/SVOC compounds. Estimates of the area, depth, and volume of soil containing contaminant levels above the criteria levels were generated by determining sample locations that contained contaminant concentrations above the applicable criteria level, and then estimating both a surface area and depth of contamination. An estimate of the volume of contaminated soil on site can be made by using the areal extent of contaminated soils and an average depth of contamination. If the extent of contamination was not horizontally defined on site, contamination was assumed to radiate out from the sampling locations that contained contaminated soil for a distance that was approximately half of the distance to the nearest property boundary.



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## 5.1 EXTENT OF CONTAMINATION ABOVE REGULATORY LIMIT FOR CHARACTERISTIC OF TOXICITY FOR HAZARDOUS WASTE

The areal extent of contamination that is contaminated with TCLP lead concentrations above the criteria level for the characteristic of toxicity for hazardous waste (defined in 40 CFR Part 266, Appendix VII [2001]) of 5.0 mg/L is estimated to be 1,264 $ft^2$ (736 $ft^2$ in the southern area and 528 $ft^2$ for the northern area). TCLP lead contamination above the criteria level for the characteristic of toxicity for hazardous waste was not detected below the 3-ft sampling interval; therefore, the depth of contamination was assumed to be 3 ft. A 20% expansion factor was also utilized to generate this volume estimate. A graphic representation of the area is provided in Figures 3-1 through 3-3. The total volume of soil that is contaminated above the criteria level for the characteristic of toxicity for hazardous waste is estimated to be 170 $yd^3$.

## 5.2 EXTENT OF CONTAMINATION ABOVE ILLINOIS TACO REMEDIATION OBJECTIVES FOR THE INGESTION/INHALATION EXPOSURE ROUTE

The areal extent of contamination that is contaminated with concentrations above the soil remediation objectives defined in TACO for the ingestion/inhalation exposure routes is estimated to be 54,873 $ft^2$. Contaminant concentrations were not detected below the 3-ft sampling interval; therefore, the depth of contamination was assumed to be 3 ft. A 20% expansion factor was utilized to generate this volume estimate. A graphic representation of the area is provided in Figure 3-2. The total volume of soil that is contaminated above the soil remediation objectives defined in TACO for the ingestion/inhalation exposure routes is estimated to be 7,316 $yd^3$.

## 5.3 EXTENT OF CONTAMINATION ABOVE ILLINOIS TACO REMEDIATION OBJECTIVES FOR THE SOIL COMPONENT OF THE MIGRATION TO CLASS I GROUNDWATER EXPOSURE ROUTE

The areal extent of contamination that is contaminated with concentrations above the soil remediation objectives defined in TACO for the soil component of the migration to Class I



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groundwater exposure route is estimated to be 26,459 $ft^2$. Contaminant concentrations were not detected below the 3-ft sampling interval; therefore, the depth of contamination was assumed to be 3 ft. A 20% expansion factor was utilized to generate this volume estimate. A graphic representation of the area is provided in Figure 3-3. The total volume of soil that is contaminated above the soil remediation objectives defined in TACO for the soil component of the migration to Class I groundwater exposure route is estimated to be 3,527 $yd^3$.

## 5.4 CO-MINGLED LEAD AND PNA EXTENT OF CONTAMINATION

Portions of the areas determined to be contaminated based upon the regulatory limit for the characteristic of toxicity for hazardous waste for TCLP lead and the Illinois TACO remediation objectives overlap. An overlay of the areas is shown on Figure 5-1. By delineating the areas that overlap and those that do not, separate volume estimates can be made for different types of soil contamination on site:

- The estimated volume of soil contaminated above the regulatory limit for the characteristic of toxicity for hazardous waste is 170 $yd^3$;
- The estimated volume of soil contaminated with co-mingled waste (above Illinois TACO remediation objectives and above the regulatory limit for the characteristic of toxicity for hazardous waste is 6,856) $yd^3$;
- The estimated volume of soil contaminated only above the Illinois TACO remediation objectives for the ingestion/inhalation exposure routes is 1,009 $yd^3$;
- The estimated volume of soil contaminated only above the Illinois TACO remediation objectives for the soil component of the migration to Class I groundwater exposure route is 63 $yd^3$.



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# SECTION 6
# SUMMARY AND RECOMMENDATIONS

This section presents conclusions and recommendations for actions at the 76th and Parnell Site, based on the results of the Site Assessment. The conclusions subsection summarizes the major findings of this report, and the recommendations subsections presents data gaps and recommendations for future site activities.

## 6.1 SUMMARY

The 76th and Parnell Site is located in Chicago, Cook County, Illinois. The 76th and Parnell Site has been used as an industrial property, initially developed prior to 1897 (CTE, 2002). Previous occupants have included Staver and Abbott Manufacturing Company and Studebaker Corporation, as well as various commercial, warehousing, and manufacturing operations. Previous land uses include painting, varnishing, wood finishing, blacksmithing, metal plating, warehousing, and the storage of chemicals, coal, coke, and fuels (CTE, 2002). The land surrounding the 76th and Parnell Site currently consists of a mixture of residential, commercial, railroad, and parkland properties. The 76th and Parnell Site is bounded on the west by a set of elevated train tracks. Immediately west of the train tracks is the Lyle Park. The area within a 0.25 mile of the site also contains a public school located east of the site, identified as the Harvard School, and a small lake, located southeast of the site, identified as Auburn Lake,.

The 76th and Parnell Site encompasses approximately seven acres. The site is an irregular shaped area bounded by 76th Street on the north, the Metra railroad on the east, 78th Street on the south, and the Chicago & Western Illinois Railroad on the west. Several piles of stockpiled soil, railroad ties, and ACM were present at the site.

During site visits and Emergency Response activities completed in June and August 2002, the northern portion of the site was an abandoned vacant lot and the southern portion was heavily



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wooded. Currently, the 76th and Parnell Site is vacant land containing several concrete slabs and foundations. The initial clearing and grading of the site has been completed.

During site visits completed on 14 and 27 June 2002, CTE discovered the presence of several 55-gallon drums within the wooded area of the southern portion of the site. The U.S. EPA and WESTON START conducted an emergency site assessment and sampling activities on 6 August 2002. Five investigative soil samples and four drum samples were collected and analyzed for a variety of potential contaminants. Sampling results indicated the presence of lead concentrations above the U.S. EPA Region IX PRGs and the Illinois TACO Tier 1 soil remediation objectives for industrial/commercial properties in two of the soil samples [S-4 (1,100 milligrams per kilogram (mg/kg)) and S-6 (5,800 mg/kg)].

From 18 December through 20 December 2002, a site assessment of the 76th and Parnell Site was conducted by the U.S. EPA and WESTON START personnel to determine the nature and extent of contamination present at the site. A total of 36 investigative soil samples (surface and subsurface soil) were collected from 18 soil borings advanced across the southern portion of the site. Samples were analyzed for metals (both RCRA and TAL), VOCs, SVOCs, pesticides/PCBs, and TCLP metals. An additional 28 investigative surface soil samples were collected from 26 surface soil sampling locations across both the southern and northern portions of the site. These samples were analyzed for total lead and, based upon the results of the total lead analysis, four surface soil samples (SS-107, SS-111, SS-118, and SS-122) were also analyzed for TCLP lead.

To determine the nature and extent of contamination, analytical results were compared to regulatory limit for the characteristic of toxicity for hazardous waste for TCLP lead, the most conservative TACO soil remediation objective from the ingestion and inhalation exposure routes, and the TACO soil component of the migration to Class I groundwater exposure route. Criteria levels for residential-use land were used to evaluate the data. Concentrations of SVOCs and lead were found at concentrations that exceed the criteria levels. Concentrations of lead (both total and TCLP) exceeded metal criteria and benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene;



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benzo(k)fuoranthene; dibenzo(a,h) anthracene; indeno(1,2,3-cd)pyrene carbazole; and N-nitrosodi-n-propylamine exceeded SVOC criteria.

Surface areas on-site representing contamination and corresponding volumes of contaminated soil were estimated for contaminant concentrations that exceed the Illinois TACO soil remediation objectives and the regulatory limit for the characteristic of toxicity for hazardous waste for TCLP lead. Approximately 170 $yd^3$ of soil are considered to be contaminated the regulatory limits for the characteristic of toxicity for hazardous waste, as defined in 35 IAC Section 721.124, for TCLP lead (5.0 mg/L) (IPCB, 2001) and in 40 CFR Part 266 (2001). An additional 1,557 $yd^3$ of soil contaminated with concentrations of TCLP lead above 5.0 mg/L were estimated by the CDOE/CTE (Ahumada, 2003). In addition, approximately 7,316 $yd^3$ of soil are considered to be contaminated above the Illinois TACO ingestion/inhalation criteria, and approximately 3,527 $yd^3$ of soil are considered to be contaminated above the Illinois TACO soil component of the migration to Class I groundwater criteria.

Two soil samples were collected for grain-size analysis. These samples were collected from the 0- to 3-ft and 7- to 11-ft depth intervals of SB-109. The grain size analysis of these samples indicated the dominance of sandy material at both depth intervals.

Two temporary wells were installed in soil borings SB-101 and SB-115. However, WESTON START did not complete any groundwater sampling or hydrogeologic testing as a part of this site assessment.

## 6.2 RECOMMENDATIONS

As discussed in Section 3, concentrations of TCLP lead exceedances detected within the surface soil samples are not vertically delineated. The volume estimates presented in Section 5 of this report were based upon the assumptions that contamination is limited to the 0- to 3-ft depth interval at the site, and in areas where the extent of contamination that was not horizontally delineated, contamination was



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assumed to radiate out from a location that contained contaminated soil for a distance that was approximately half of the way to the nearest property boundary.

Further investigation may provide useful information to supplement the findings of this report and generate more accurate volume estimates. The recommendations for further investigation are as follows:

- Additional investigation of soil in localized areas could be conducted around surface soil sampling locations that exceeded the criteria for the characteristic of toxicity for hazardous waste. Surface soil samples should be collected from consecutive 6-inch sampling intervals, down to a depth of 2 ft bgs, and analyzed for TCLP lead. These sampling activities could be conducted to more accurately define the horizontal and vertical extents of TCLP lead contamination exceeding the criteria for the characteristic of toxicity for hazardous waste. Surface soil sampling locations should be offset 10 ft from the original sampling locations in the directions of north, south, east, and west.

  - SS-107, sampled at each 6-inch interval to 2 ft bgs
  - SS-118, sampled at each 6-inch interval to 2 ft bgs

- Pending the results of additional investigation, refined volume estimates of contamination can be developed for the site for use in any future removal actions.



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# SECTION 7

# REFERENCES

City of Chicago Department of Environment, Telephone Conversation with Annalisa Ahumada, 16 January 2003

Title 40 - Code of Federal Regulations (CFR) - Protection of Environment, Part 261 Identification and Listing of Hazardous waste, 2001.

Title 40 - CFR - Protection of Environment, Part 266 Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities, 2001.

City of Chicago Department of Environment, Ordinance #097990, 1997.

Consoer Townsend Environdyne Engineers, Inc (a), Phase I Environmental Site Assessment - 519-555 West 76th Street (76th and Parnell) Chicago, Illinois 60609, 30 July 2002.

Consoer Townsend Environdyne Engineers, Inc (b), Comprehensive Site Investigation Report - 519-555 West 76th Street (76th and Parnell) Chicago, Illinois 60609, 31 July 2002.

Illinois Environmental Protection Agency, Tiered Approach to Corrective Action Objectives, 2001.

Illinois Pollution Control Board, Title 35: Environmental Protection Subtitle G: Waste Disposal Chapter I: Pollution Control Board Subchapter c: Hazardous Waste Operating Requirements, Part 721 Identification and Listing of Hazardous Waste, 2001.

Illinois Pollution Control Board (a), Title 35: Environmental Protection Subtitle G: Waste Disposal Chapter I: Pollution Control Board Subchapter f: Risk Based Cleanup Objectives Part 742 Tiered Approach to Corrective Action Objectives, 2002.

Illinois Pollution Control Board (b), Title 35: Environmental Protection Subtitle F: Public Water Supplies Chapter I: Pollution Control Board Part 620 Groundwater Quality, 2002.

United States Environmental Protection Agency, Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, February 1994.



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United States Environmental Protection Agency, Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses, October 1999.

United States Geological Survey, Englewood Quadrangle, 2001.

Weston Solutions, Inc, Emergency Response for the 76th and Parnell Site, Chicago, Cook County, Illinois, 11 October 2002.

Weston Solutions, Inc, START Sampling Plan for Emergency Response/Site Assessment. 17 December 2002.



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# TABLES

# Table 3 - 1

## Soil Boring Samples
## RCRA Metals Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-101 | SB-101 | SB-102 | SB-102 | SB-102 | SB-103 | SB-103 | Screening Levels Residential |
|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 | 7 - 11 | 0 - 3 | 0 - 3 (DUP) | 7 - 11 | 0 - 3 | 7 - 11 | |
| Sample Date | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | |
| Chemical Name | | | | | | | | Ingestion/Inhalation[a] |
| Arsenic (mg/kg) | 0.51 UJ | 0.45 UJ | 0.47 UJ | 0.44 UJ | 0.50 UJ | 0.73 UJ | 0.50 UJ | 750 |
| Barium (mg/kg) | 37.0 | 19.1 | 43.5 | 54.3 | 4.95 | 88.1 | 4.42 | 5500 |
| Cadmium (mg/kg) | 0.030 UJ | 0.027 UJ | 0.027 UJ | 0.026 UJ | 0.029 UJ | 0.026 UJ | 0.030 UJ | 78 |
| Chromium (mg/kg) | 7.74 J- | 10.4 J- | 8.26 J- | 8.46 J- | 2.76 J- | 6.73 J- | 3.39 J- | 230 |
| Lead (mg/kg) | 283 J+ | 8.06 J+ | 108 J+ | 127 J+ | 2.81 J+ | 213 J+ | 3.91 J+ | 400 |
| Selenium (mg/kg) | 0.38 UJ | 0.34 UJ | 0.35 UJ | 0.34 UJ | 0.38 UJ | 0.33 UJ | 0.38 UJ | 390 |
| Silver (mg/kg) | 0.030 UJ | 0.027 UJ | 0.027 UJ | 0.026 UJ | 0.029 UJ | 0.026 UJ | 0.030 UJ | 390 |
| Mercury (mg/kg) | 3.39 | 0.0098 U | 1.82 | 0.726 | 0.0010 U | 1.8 | 0.0099 U | 10 |
| pH | 7.69 | 8.43 | 7.24 | NA | 8.31 | 8.05 | 8.26 | -- |

| Field Sample ID | SB-105 | SB-105 | SB-105 | SB-105 | SB-106 | SB-106 | SB-107 | Screening Levels Residential |
|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 | 0 - 3 (DUP) | 7 - 11 | 7 - 11 (DUP) | 0 - 3 | 7 - 11 | 0 - 3 | |
| Sample Date | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | |
| Chemical Name | | | | | | | | Ingestion/Inhalation[a] |
| Arsenic (mg/kg) | 0.44 UJ | 0.47 UJ | 0.55 UJ | 0.43 UJ | 0.43 UJ | 0.44 UJ | 0.47 UJ | 750 |
| Barium (mg/kg) | 93.8 | 69.8 | 3.91 | 4.24 | 207 | 4.63 | 70.6 | 5500 |
| Cadmium (mg/kg) | 0.026 UJ | 0.027 UJ | 0.032 UJ | 0.025 UJ | 0.025 UJ | 0.027 UJ | 0.028 UJ | 78 |
| Chromium (mg/kg) | 5.97 J- | 5.83 J- | 3.26 J- | 2.61 J- | 12 J- | 3.65 J- | 5.05 J- | 230 |
| Lead (mg/kg) | 101 J+ | 80.4 J+ | 4.13 J+ | 3.33 J+ | 315 J+ | 5.24 J+ | 42.3 J+ | 400 |
| Selenium (mg/kg) | 0.34 UJ | 0.35 UJ | 0.41 UJ | 0.33 UJ | 0.33 UJ | 0.34 UJ | 0.35 UJ | 390 |
| Silver (mg/kg) | 0.026 UJ | 0.027 UJ | 0.032 UJ | 0.025 UJ | 0.025 UJ | 0.0027 UJ | 0.028 UJ | 390 |
| Mercury (mg/kg) | 0.0857 | 0.126 | 0.01 U | 0.011 U | 0.019 J | 0.01 U | 0.0624 | 10 |
| pH | 8.15 | NA | 8.15 | NA | 8.17 | 7.89 | 8.27 | -- |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
-- indicates no exposure data available for compound
Sample concentrations flagged with J+ are estimated detections above the laboratory control limits
Sample concentrations flagged with J- are non-detected estimated estimates below the laboratory control limits
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
*Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes*
ft = feet
mg/kg = milligrams per kilogram
NA = Not Analyzed

# Table 3 - 1

## Soil Boring Samples
## RCRA Metals Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-107 | SB-109 | SB-109 | SB-110 | SB-110 | SB-111 | SB-111 | Screening Levels Residential |
|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 7 - 11 | 0 - 3 | 7 - 11 | 0 - 3 | 7 -11 | 0 - 3 | 7 - 11 | |
| Sample Date | 12/18/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | |
| Chemical Name | | | | | | | | Ingestion/Inhalation[a] |
| Arsenic (mg/kg) | 0.50 UJ | 0.45 U | 0.52 U | 0.47 U | 0.42 U | 0.46 U | 0.48 U | 750 |
| Barium (mg/kg) | 4.63 | 4.39 | 4.27 | 371 | 25.7 | 257 | 4.53 | 5500 |
| Cadmium (mg/kg) | 0.030 UJ | 0.0026 U | 0.031 U | 0.028 U | 0.025 U | 0.027 U | 0.028 U | 78 |
| Chromium (mg/kg) | 3.6 J- | 1.67 | 4.92 | 12.8 | 12.2 | 27.1 | 4.29 | 230 |
| Lead (mg/kg) | 5.25 J+ | 10.2 S | 5.23 J- | 272 J- | 12.2 J- | 401 J- | 4.49 J- | 400 |
| Selenium (mg/kg) | 0.39 UJ | 0.34 U | 0.4 U | 0.36 U | 0.32 U | 0.35 U | 0.37 U | 390 |
| Silver (mg/kg) | 0.030 UJ | 0.026 SR | 0.031 UJ | 0.028 UJ | 0.025 UJ | 0.027 UJ | 0.028 UJ | 390 |
| Mercury (mg/kg) | 0.01 U | 0.0084 U | 0.0099 U | 0.113 | 0.027 J | 0.0828 | 0.0099 U | 10 |
| pH | 8.16 | 8.07 | 8.07 | 8.03 | 8.52 | 8.15 | 7.97 | -- |

| Field Sample ID | SB-112 | SB-112 | SB-113 | SB-113 | SB-114 | SB-114 | SB-115 | Screening Levels Residential |
|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 | 7 - 11 | 0 - 3 | 7 - 11 | 0 - 3 | 7-11 | 0 - 3 | |
| Sample Date | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | |
| Chemical Name | | | | | | | | Ingestion/Inhalation[a] |
| Arsenic (mg/kg) | 0.34 U | 0.48 U | 0.43 U | 0.57 U | 0.45 U | 0.48 U | 0.52 U | 750 |
| Barium (mg/kg) | 3.35 | 5.78 | 7.35 | 7.51 | 46.9 | 5.36 | 92 | 5500 |
| Cadmium (mg/kg) | 0.02 U | 0.028 U | 0.025 U | 0.033 U | 0.023 U | 0.028 U | 0.031 U | 78 |
| Chromium (mg/kg) | 2.72 | 3.72 | 3.3 | 4.24 | 6.5 | 4.39 | 13.7 | 230 |
| Lead (mg/kg) | 1.96 J- | 0.25 UJ | 0.759 J- | 0.76 J- | 217 J- | 5.78 J- | 467 J- | 400 |
| Selenium (mg/kg) | 0.26 U | 0.36 U | 0.33 U | 0.43 U | 0.34 U | 0.37 U | 0.4 U | 390 |
| Silver (mg/kg) | 0.02 UJ | 0.028 UJ | 0.025 UJ | 0.033 UJ | 0.026 UJ | 0.028 UJ | 0.031 UJ | 390 |
| Mercury (mg/kg) | 0.268 | 0.009 U | 0.306 | 0.02 J | 0.109 | 0.019 J | 0.215 | 10 |
| pH | 7.68 | 8.52 | 7.2 | 7.52 | 9.72 | 8.32 | 12.2 | -- |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
-- indicates no exposure data available for compound
Sample concentrations flagged with J+ are estimated detections above the laboratory control limits
Sample concentrations flagged with J- are non-detected estimated estimates below the laboratory control limits
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
ft = feet
mg/kg = milligrams per kilogram
NA = Not Analyzed

# Table 3 - 1

## Soil Boring Samples
## RCRA Metals Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-115 | SB-116 | SB-116 | SB-117 | SB-117 | SB-118 | SB-118 | Screening Levels Residential |
|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 7 - 11 | 0 - 3 | 7 - 11 | 0 - 3 | 7 - 11 | 0 - 3 | 7 - 11 | |
| Sample Date | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | |
| | | | | | | | | Ingestion/Inhalation[a] |
| Arsenic (mg/kg) | 0.46 U | 0.54 U | 0.52 U | 0.37 U | 0.46 U | 0.5 U | 0.53 U | 750 |
| Barium (mg/kg) | 6.3 | 921 | 5.85 | 5.99 | 4.08 | 233 | 4.09 | 5500 |
| Cadmium (mg/kg) | 0.027 U | 0.032 U | 0.031 U | 0.022 U | 0.028 U | 0.029 U | 0.031 U | 78 |
| Chromium (mg/kg) | 3.29 | 114 | 4.2 | 2.59 | 3.37 | 61 | 4.73 | 230 |
| Lead (mg/kg) | 4.87 J- | 2870 J- | 15.4 J- | 7.1 J- | 2.16 J- | 901 J- | 9.44 J- | 400 |
| Selenium (mg/kg) | 0.35 U | 0.42 U | 0.4 U | 0.28 U | 0.35 U | 0.38 U | 0.4 U | 390 |
| Silver (mg/kg) | 0.027 UJ | 0.032 U | 0.031 UJ | 0.022 UJ | 0.028 UJ | 0.029 UJ | 0.031 UJ | 390 |
| Mercury (mg/kg) | 0.01 U | 0.145 | 0.0348 | 0.0083 U | 0.01 U | 0.0847 | 0.024 J | 10 |
| pH | 8.72 | 7.95 | 8.14 | 7.89 | 8.2 | 8.48 | 8.05 | -- |

[b] Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
-- indicates no exposure data available for compound
Sample concentrations flagged with J+ are estimated detections above the laboratory control limits
Sample concentrations flagged with J- are non-detected estimated estimates below the laboratory control limits
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
ft = feet
mg/kg = milligrams per kilogram
NA = Not Analyzed

# Table 3 - 2

## Soil Boring Samples
## PNA Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-101 | SB-101 | SB-102 | SB-102 | SB-102 | SB-102 | SB-103 | SB-103 | Screening Levels Residential | |
|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 | 7 - 11 | 0 - 3 | 0 - 3 (DUP) | 7 - 11 | 7 - 11 (DUP) | 0 - 3 | 7 - 11 | | |
| Sample Date | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | | |
| Chemical Name | | | | | | | | | Ingestion/Inhalation[a] | Migration to Groundwater[b] |
| Acenaphthene (mg/kg) | 0.474 UJ | 0.0490 U | 0.055 J | 0.067 J | 0.0509 U | 0.0503 U | 0.594 | 0.0496 U | 4700 | 570 |
| Acenaphthylene (mg/kg) | 0.474 UJ | 0.0490 U | 0.0436 U | 0.0436 U | 0.0509 U | 0.0503 U | 0.062 J | 0.0496 U | -- | -- |
| Anthracene (mg/kg) | 0.052 J | 0.0490 U | 0.110 J | 0.120 J | 0.0509 U | 0.0503 U | 1.080 | 0.0496 U | 23000 | 12000 |
| Benzo(a)anthracene (mg/kg) | 0.313 J | 0.0490 U | 0.392 | 0.504 | 0.0509 U | 0.0503 U | **3.220** | 0.051 J | 0.9 | 2 |
| Benzo(a)pyrene (mg/kg) | 0.333 J | 0.0490 U | 0.309 | 0.366 | 0.0509 U | 0.0503 U | 2.600 | 0.0496 U | 0.09 | 8 |
| Benzo(b)fluoranthene (mg/kg) | 0.378 J | 0.0490 U | 0.457 | 0.509 | 0.0509 U | 0.0503 U | 3.550 | 0.0496 U | 0.9 | 5 |
| Benzo(g,h,i)perylene (mg/kg) | 0.268 J | 0.0490 U | 0.218 | 0.226 | 0.0509 U | 0.0503 U | 1.550 | 0.0496 U | -- | -- |
| Benzo(k)fluoranthene (mg/kg) | 0.120 J | 0.0490 U | 0.153 | 0.184 | 0.0509 U | 0.0503 U | 1.120 | 0.0496 U | 9 | 49 |
| Chrysene (mg/kg) | 0.345 J | 0.0490 U | 0.382 | 0.414 | 0.0509 U | 0.0503 U | 2.830 | 0.0496 U | 88 | 160 |
| Dibenzo(a,h)anthracene (mg/kg) | 0.066 J | 0.0490 U | 0.060 J | 0.048 J | 0.0509 U | 0.0503 U | 0.385 | 0.0496 U | 0.09 | 2 |
| Fluoranthene (mg/kg) | 0.569 J | 0.0490 U | 0.811 | 0.978 | 0.0509 U | 0.0503 U | 7.620 | 0.0496 U | 3100 | 4300 |
| Fluorene (mg/kg) | 0.0474 UJ | 0.0490 U | 0.0436 U | 0.0436 U | 0.0509 U | 0.0503 U | 0.599 | 0.0496 U | 3100 | 560 |
| Hexachlorobenzene | NA | NA | NA | NA | NA | NA | 0.043 U | NA | -- | -- |
| Indeno(1,2,3-cd)pyrene (mg/kg) | 0.189 J | 0.0490 U | 0.207 | 0.234 | 0.0509 U | 0.0503 U | 1.600 | 0.0496 U | 0.9 | 14 |
| Naphthalene (mg/kg) | 0.077 J | 0.0490 U | 0.177 | 0.209 | 0.0509 U | 0.0503 U | 0.438 | 0.0496 U | 170 | 12 |
| Phenanthrene (mg/kg) | 0.406 J | 0.0490 U | 0.874 | 1.04 | 0.0509 U | 0.0503 U | 6.900 | 0.0496 U | -- | -- |
| Pyrene (mg/kg) | 0.682 J | 0.0490 U | 0.767 | 0.902 | 0.0509 U | 0.0503 U | 5.930 | 0.0496 U | 2300 | 4200 |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
b IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route
-- indicates no expsoure data available for compound
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with Q indicates that the internal standard recovery for this analyte in the sample is outside in-house laboratory criteria
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/kg = milligrams per kilogram
ft = feet
NA = Not Analyzed

# Table 3 - 2

## Soil Boring Samples
## PNA Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-104 | SB-104 | SB-105 | SB-105 | SB-106 | SB-106 | SB-107 | SB-107 | Screening Levels Residential | |
|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 | 7 - 11 | 0 - 3 | 7 - 11 | 0 - 3 | 7 - 11 | 0 - 3 | 7 - 11 | | |
| Sample Date | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | | |
| Chemical Name | | | | | | | | | Ingestion/Inhalation[a] | Migration to Groundwater[b] |
| Acenaphthene (mg/kg) | 0.049 J | 0.0501 U | 0.092 J | 0.0511 UJ | 5.4 J | 0.0505 U | 0.0441 U | 0.0517 U | 4700 | 570 |
| Acenaphthylene (mg/kg) | 0.0426 U | 0.0501 U | 0.326 | 0.0511 UJ | 35.9 J | 0.0505 U | 0.0441 U | 0.0517 U | -- | -- |
| Anthracene (mg/kg) | 0.073 J | 0.0501 U | 1.71 | 0.0511 UJ | 27.1 J | 0.0505 U | 0.186 | 0.0517 U | 23000 | 12000 |
| Benzo(a)anthracene (mg/kg) | 0.285 | 0.0501 U | 4.21 | 0.0511 UJ | 92.4 J | 0.0505 U | 0.772 | 0.060 J | 0.9 | 2 |
| Benzo(a)pyrene (mg/kg) | 0.247 | 0.0501 U | 2.6 | 0.0511 UJ | 106 J | 0.0505 U | 0.63 | 0.0517 U | 0.09 | 8 |
| Benzo(b)fluoranthene (mg/kg) | 0.302 | 0.0501 U | 4.34 | 0.0511 UJ | 119 J | 0.0505 U | 0.759 | 0.0517 U | 0.9 | 5 |
| Benzo(g,h,i)perylene (mg/kg) | 0.151 | 0.0501 U | 1.31 | 0.0511 UJ | 99.2 J | 0.0505 U | 0.399 | 0.0517 U | -- | -- |
| Benzo(k)fluoranthene (mg/kg) | 0.11 J | 0.0501 U | 1.35 | 0.0511 UJ | 46.3 J | 0.0505 U | 0.217 | 0.0517 U | 9 | 49 |
| Chrysene (mg/kg) | 0.271 | 0.0501 U | 3.53 | 0.0511 UJ | 85.4 J | 0.0505 U | 0.698 | 0.0517 U | 88 | 160 |
| Dibenzo(a,h)anthracene (mg/kg) | 0.0426 U | 0.0501 U | 0.431 | 0.0511 UJ | 17.1 J | 0.0505 U | 0.091 J | 0.0517 U | 0.09 | 2 |
| Fluoranthene (mg/kg) | 0.453 | 0.0501 U | 10.1 | 0.0511 UJ | 232 J | 0.0505 U | 1.5 | 0.0517 U | 3100 | 4300 |
| Fluorene (mg/kg) | 0.0426 U | 0.0501 U | 0.156 | 0.0511 UJ | 13 J | 0.0505 U | 0.050 J | 0.0517 U | 3100 | 560 |
| Hexachlorobenzene | NA | NA | NA | NA | 4.43 UJ | NA | NA | NA | -- | -- |
| Indeno(1,2,3-cd)pyrene (mg/kg) | 0.120 J | 0.0501 U | 1.55 | 0.0511 UJ | 98.9 J | 0.0505 U | 0.379 | 0.0517 U | 0.9 | 14 |
| Naphthalene (mg/kg) | 0.084 J | 0.0501 U | 0.286 | 0.0511 UJ | 25 J | 0.0505 U | 0.081 J | 0.0517 U | 170 | 12 |
| Phenanthrene (mg/kg) | 0.874 | 0.0501 U | 3.17 | 0.0511 UJ | 217 J | 0.0505 U | 1.1 | 0.0517 U | -- | -- |
| Pyrene (mg/kg) | 0.616 | 0.0501 U | 7.33 | 0.0511 UJ | 210 J | 0.0505 U | 1.63 | 0.0517 U | 2300 | 4200 |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
b IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route
-- indicates no expsoure data available for compound
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with Q indicates that the internal standard recovery for this analyte in the sample is outside in-house laboratory criteria
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/kg = milligrams per kilogram
ft = feet
NA = Not Analyzed

## Table 3 - 2

### Soil Boring Samples
### PNA Sampling Results
### 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-108 | SB-108 | SB-109 | SB-109 | SB-110 | SB-110 | SB-111 | SB-111 | Screening Levels Residential | |
|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 | 7 - 11 | 0 - 3 | 7 - 11 | 0 - 3 | 7 - 11 | 0 - 3 | 7 - 11 | | |
| Sample Date | 12/18/2002 | 12/18/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | | |
| Chemical Name | | | | | | | | | Ingestion/Inhalation[a] | Migration to Groundwater[b] |
| Acenaphthene (mg/kg) | 0.632 | 0.0518 UJ | 0.0422 U | 0.0494 U | 0.427 Q | 0.0499 UJ | 0.275 | 0.0496 U | 4700 | 570 |
| Acenaphthylene (mg/kg) | 0.213 | 0.0518 UJ | 0.0422 U | 0.0494 U | 0.053 JQ | 0.0499 UJ | 0.152 | 0.0496 U | -- | -- |
| Anthracene (mg/kg) | 2.65 | 0.0518 UJ | 0.0422 U | 0.0494 U | 1.19 | 0.0499 UJ | 0.557 | 0.0496 U | 23000 | 12000 |
| Benzo(a)anthracene (mg/kg) | **8.08** | 0.0518 UJ | 0.064 J | 0.0494 U | **2.26** | 0.0499 UJ | 1.4 | 0.0496 U | 0.9 | 2 |
| Benzo(a)pyrene (mg/kg) | 5.79 | 0.0518 UJ | 0.0422 U | 0.0494 UQ | 1.9 | 0.0499 UJ | 0.883 | 0.0496 UQ | 0.09 | 8 |
| Benzo(b)fluoranthene (mg/kg) | **8.53** | 0.0518 UJ | 0.054 J | 0.0494 UQ | 2.2 | 0.0499 UJ | 1.55 | 0.0496 UQ | 0.9 | 5 |
| Benzo(g,h,i)perylene (mg/kg) | 3.24 | 0.0518 UJ | 0.0422 U | 0.0494 UQ | 1.13 | 0.0499 UJ | 0.634 | 0.0496 UQ | -- | -- |
| Benzo(k)fluoranthene (mg/kg) | 2.25 | 0.0518 UJ | 0.0422 U | 0.0494 UQ | 0.617 | 0.0499 UJ | 0.441 | 0.0496 UQ | 9 | 49 |
| Chrysene (mg/kg) | 6.85 | 0.0518 UJ | 0.042 J | 0.0494 U | 1.8 | 0.0499 UJ | 1.44 | 0.0496 U | 88 | 160 |
| Dibenzo(a,h)anthracene (mg/kg) | 0.887 | 0.0518 UJ | 0.0422 U | 0.0494 UQ | 0.227 | 0.0499 UJ | 0.145 | 0.0496 UQ | 0.09 | 2 |
| Fluoranthene (mg/kg) | 16.9 | 0.0518 UJ | 0.064 J | 0.0494 U | 5.19 | 0.0499 UJ | 2.97 | 0.0496 U | 3100 | 4300 |
| Fluorene (mg/kg) | 0.721 | 0.0518 UJ | 0.0422 U | 0.0494 U | 0.52 J | 0.0499 UJ | 0.321 | 0.0496 U | 3100 | 560 |
| Hexachlorobenzene | NA | NA | NA | NA | NA | NA | NA | NA | -- | -- |
| Indeno(1,2,3-cd)pyrene (mg/kg) | 3.29 | 0.0518 UJ | 0.0422 U | 0.0494 UQ | 1.15 | 0.0499 UJ | 0.658 | 0.0496 UQ | 0.9 | 14 |
| Naphthalene (mg/kg) | 0.366 | 0.0518 UJ | 0.0422 U | 0.0494 U | 0.68 J | 0.0499 UJ | 2.07 | 0.0496 U | 170 | 12 |
| Phenanthrene (mg/kg) | 17.1 | 0.0518 UJ | 0.0422 U | 0.0494 U | 6.96 | 0.079 J | 3.34 | 0.0496 U | -- | -- |
| Pyrene (mg/kg) | 15.9 | 0.0518 UJ | 0.065 J | 0.0494 U | 6.42 | 0.0499 UJ | 2.54 | 0.0496 U | 2300 | 4200 |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
b IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route
-- indicates no expsoure data available for compound
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with Q indicates that the internal standard recovery for this analyte in the sample is outside in-house laboratory criteria
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/kg = milligrams per kilogram
ft = feet
NA = Not Analyzed

## Table 3 - 2

### Soil Boring Samples
### PNA Sampling Results
### 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-112 | SB-112 | SB-113 | SB-113 | SB-114 | SB-114 | SB-115 | SB-115 | Screening Levels Residential | |
|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 | 7 - 11 | 0 - 3 | 7 - 11 | 0 - 3 | 7-11 | 0 - 3 | 7 - 11 | | |
| Sample Date | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | | |
| Chemical Name | | | | | | | | | Ingestion/Inhalation[a] | Migration to Groundwater[b] |
| Acenaphthene (mg/kg) | 0.0433 U | 0.0448 U | 0.0423 U | 0.0533 U | 1.98 | 0.0495 U | 0.082 J | 0.0498 U | 4700 | 570 |
| Acenaphthylene (mg/kg) | 0.0433 U | 0.0448 U | 0.0423 U | 0.0533 U | 0.158 | 0.0495 U | 0.13 J | 0.0498 U | -- | -- |
| Anthracene (mg/kg) | 0.08 J | 0.0448 U | 0.0423 U | 0.0533 U | 4.15 | 0.0495 U | 0.888 | 0.0498 U | 23000 | 12000 |
| Benzo(a)anthracene (mg/kg) | 0.466 | 0.0448 U | 0.11 J | 0.0533 U | **9.67** | 0.0495 U | **6.65** | 0.0498 U | 0.9 | 2 |
| Benzo(a)pyrene (mg/kg) | 0.383 | 0.0448 UQ | 0.073 J | 0.0533 U | 7.82 | 0.0495 U | 5.85 | 0.0498 U | 0.09 | 8 |
| Benzo(b)fluoranthene (mg/kg) | 0.562 | 0.0448 UQ | 0.157 | 0.0533 U | **10.4** | 0.0495 U | **6.26** | 0.0498 U | 0.9 | 5 |
| Benzo(g,h,i)perylene (mg/kg) | 0.209 | 0.0448 UQ | 0.0423 U | 0.0533 U | 4.37 | 0.0495 U | 3.5 | 0.0498 U | -- | -- |
| Benzo(k)fluoranthene (mg/kg) | 0.197 | 0.0448 UQ | 0.05 J | 0.0533 U | 3.01 | 0.0495 U | 1.83 | 0.0498 U | 9 | 49 |
| Chrysene (mg/kg) | 0.353 | 0.0448 U | 0.099 J | 0.0533 U | 8.21 | 0.0495 U | 5.39 | 0.0498 U | 88 | 160 |
| Dibenzo(a,h)anthracene (mg/kg) | 0.062 J | 0.0448 UQ | 0.0423 UJ | 0.0533 U | 1.09 | 0.0495 U | 0.82 | 0.0498 U | 0.09 | 2 |
| Fluoranthene (mg/kg) | 0.966 | 0.0448 U | 0.12 J | 0.0533 U | 25.5 | 0.0495 U | 10.3 | 0.0498 U | 3100 | 4300 |
| Fluorene (mg/kg) | 0.0433 U | 0.0448 U | 0.0423 U | 0.0533 U | 2.58 | 0.0495 U | 0.12 J | 0.0498 U | 3100 | 560 |
| Hexachlorobenzene | 0.0433 U | NA | NA | NA | NA | NA | NA | NA | -- | -- |
| Indeno(1,2,3-cd)pyrene (mg/kg) | 0.227 | 0.0448 UQ | 0.0423 U | 0.0533 U | 3.71 | 0.0495 U | 3.21 | 0.0498 U | 0.9 | 14 |
| Naphthalene (mg/kg) | 0.068 J | 0.0448 U | 0.088 J | 0.0533 UQ | 1.93 | 0.0495 U | 0.2 | 0.0498 U | 170 | 12 |
| Phenanthrene (mg/kg) | 0.471 | 0.0448 U | 0.0423 U | 0.0533 U | 27.8 | 0.0495 U | 5.37 | 0.0498 U | -- | -- |
| Pyrene (mg/kg) | 0.746 | 0.0448 U | 0.12 J | 0.0533 U | 23.6 | 0.0495 U | 10.8 | 0.0498 U | 2300 | 4200 |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
b IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route
-- indicates no expsoure data available for compound
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with Q indicates that the internal standard recovery for this analyte in the sample is outside in-house laboratory criteria
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/kg = milligrams per kilogram
ft = feet
NA = Not Analyzed

## Table 3 - 2

### Soil Boring Samples
### PNA Sampling Results
### 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-116 | SB-116 | SB-117 | SB-117 | SB-117 | SB-117 | SB-118 | SB-118 | Screening Levels Residential | |
|---|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 | 7 - 11 | 0 - 3 | 0 - 3 (DUP) | 7 - 11 | 7 - 11 (DUP) | 0 - 3 | 7 - 11 | | |
| Sample Date | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | | |
| Chemical Name | | | | | | | | | Ingestion/Inhalation[a] | Migration to Groundwater[b] |
| Acenaphthene (mg/kg) | 0.157 | 0.0493 U | 0.0521 U | 0.0415 U | 0.0501 U | 0.0501 U | 0.1 J | 0.0496 U | 4700 | 570 |
| Acenaphthylene (mg/kg) | 0.094 J | 0.0493 U | 0.0521 U | 0.0415 U | 0.0501 U | 0.0501 U | 0.0472 U | 0.0496 U | -- | -- |
| Anthracene (mg/kg) | 0.858 | 0.0493 U | 0.0521 U | 0.0415 U | 0.0501 U | 0.0501 U | 0.222 | 0.0496 U | 23000 | 12000 |
| Benzo(a)anthracene (mg/kg) | **5.01** | 0.0493 U | 0.073 J | 0.07 J | 0.0501 UQ | 0.0501 U | 1.2 | 0.0496 U | 0.9 | 2 |
| Benzo(a)pyrene (mg/kg) | 3.74 | 0.0493 U | 0.055 J | 0.0415 U | 0.0501 UQ | 0.0501 UQ | 1.01 | 0.0496 UQ | 0.09 | 8 |
| Benzo(b)fluoranthene (mg/kg) | **6.44** | 0.0493 U | 0.095 J | 0.064 J | 0.0501 UQ | 0.0501 UQ | 1.35 | 0.0496 UQ | 0.9 | 5 |
| Benzo(g,h,i)perylene (mg/kg) | 2.1 | 0.0493 U | 0.0521 U | 0.0415 U | 0.0501 UQ | 0.0501 UQ | 0.616 | 0.0496 UQ | -- | -- |
| Benzo(k)fluoranthene (mg/kg) | 1.55 | 0.0493 U | 0.0521 U | 0.0415 U | 0.0501 UQ | 0.0501 UQ | 0.492 | 0.0496 UQ | 9 | 49 |
| Chrysene (mg/kg) | 4.55 | 0.0493 U | 0.0521 U | 0.043 J | 0.0501 UQ | 0.0501 U | 0.989 | 0.0496 U | 88 | 160 |
| Dibenzo(a,h)anthracene (mg/kg) | 0.648 | 0.0493 U | 0.0521 U | 0.0415 U | 0.0501 UQ | 0.0501 UQ | 0.158 | 0.0496 UQ | 0.09 | 2 |
| Fluoranthene (mg/kg) | 10.8 | 0.0493 U | 0.073 J | 0.063 J | 0.0501 U | 0.0501 U | 2.5 | 0.0496 U | 3100 | 4300 |
| Fluorene (mg/kg) | 0.21 | 0.0493 U | 0.0521 U | BDL | 0.0501 U | 0.0501 U | 0.093 J | 0.0496 U | 3100 | 560 |
| Hexachlorobenzene | NA | NA | NA | NA | NA | NA | NA | NA | -- | -- |
| Indeno(1,2,3-cd)pyrene (mg/kg) | 2.46 | 0.0493 U | 0.0521 U | 0.0415 U | 0.0501 UQ | 0.0501 UQ | 0.652 | 0.0496 UQ | 0.9 | 14 |
| Naphthalene (mg/kg) | 0.254 | 0.0493 U | 0.0521 U | 0.0415 U | 0.0501 U | 0.0501 U | 0.066 J | 0.0496 U | 170 | 12 |
| Phenanthrene (mg/kg) | 5.14 | 0.0493 U | 0.071 J | 0.064 J | 0.0501 U | 0.0501 U | 1.72 | 0.0496 U | -- | -- |
| Pyrene (mg/kg) | 8.34 | 0.0493 U | 0.07 J | 0.057 J | 0.0501 UQ | 0.0501 U | 1.99 | 0.0496 U | 2300 | 4200 |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
b IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route
-- indicates no expsoure data available for compound
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with Q indicates that the internal standard recovery for this analyte in the sample is outside in-house laboratory criteria
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/kg = milligrams per kilogram
ft = feet
NA = Not Analyzed

# Table 3 - 3

## Soil Boring Samples
## VOC Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-102 | SB-102 | SB-104 | Screening Levels Residential | |
|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 | 7 - 11 | 0 - 3 | | |
| Sample Date | 12/18/2002 | 12/18/2002 | 12/18/2002 | | |
| Chemical Name | | | | Ingestion/Inhalation[a] | Migration to Groundwater[b] |
| 1,1,1-Trichloroethane (mg/kg) | 0.000346 UJ | 0.000271 U | 0.000322 UJ | 1200 | 2 |
| 1,1,2,2-Tetrachloroethane (mg/kg) | 0.000516 UJ | 0.000405 U | 0.000480 UJ | -- | -- |
| 1,1,2-Trichloroethane (mg/kg) | 0.00108 UJ | 0.000845 U | 0.001 UJ | 310 | 0.02 |
| 1,1-Dichloroethane (mg/kg) | 0.000374 UJ | 0.000293 U | 0.000348 UJ | 1300 | 23 |
| 1,1-Dichloroethene (mg/kg) | 0.000801 UJ | 0.000627 U | 0.000745 UJ | 1300 | 23 |
| 1,2-Dichloroethane (mg/kg) | 0.000455 UJ | 0.000356 U | 0.000423 UJ | 0.4 | 0.02 |
| 1,2-Dichloropropane (mg/kg) | 0.0007 UJ | 0.000548 U | 0.000651 UJ | 9 | 0.03 |
| 2-Butanone (mg/kg) | 0.0053 J | 0.00184 U | 0.00219 UJ | -- | -- |
| 2-Hexanone (mg/kg) | 0.00116 UJ | 0.00091 U | 0.00108 UJ | -- | -- |
| 4-Methyl-2-pentanone (mg/kg) | 0.000951 UJ | 0.000746 U | 0.000884 UJ | -- | -- |
| Acetone (mg/kg) | 0.0951 J | 0.00708 | 0.0609 J | 7800 | 16 |
| Benzene (mg/kg) | 0.00295 J | 0.00401 | 0.000459 UJ | 0.8 | 0.03 |
| Bromodichloromethane (mg/kg) | 0.000315 UJ | 0.000247 U | 0.000293 UJ | 10 | 0.6 |
| Bromoform (mg/kg) | 0.000781 UJ | 0.00147 | 0.000726 UJ | 53 | 0.8 |
| Bromomethane (mg/kg) | 0.00382 UJ | 0.00299 U | 0.00355 UJ | -- | -- |
| Carbon disulfide (mg/kg) | 0.00809 J | 0.000486 U | 0.00951 J | 720 | 32 |
| Carbon tetrachloride (mg/kg) | 0.000597 UJ | 0.000468 U | 0.000555 UJ | 0.3 | 0.07 |
| Chlorobenzene (mg/kg) | 0.000563 UJ | 0.000441 U | 0.000523 UJ | 130 | 1 |
| Chloroethane (mg/kg) | 0.00627 UJ | 0.00491 U | 0.00583 UJ | -- | -- |
| Chloroform (mg/kg) | 0.00212 J | 0.00095 J | 0.000325 UJ | 0.3 | 0.6 |
| Chloromethane (mg/kg) | 0.00171 UJ | 0.00135 U | 0.00159 UJ | -- | -- |
| cis-1,2-Dichloroethene (mg/kg) | 0.000446 UJ | 0.00035 U | 0.000415 UJ | 780 | 0.4 |
| cis-1,3-Dichloropropene (mg/kg) | 0.000454 UJ | 0.000355 U | 0.000422 UJ | 1.1 | 0.004 |
| Dibromochloromethane (mg/kg) | 0.000533 UJ | 0.000417 U | 0.000496 UJ | 1300 | 0.4 |
| Ethylbenzene (mg/kg) | 0.0013 J | 0.00127 | 0.000545 UJ | 400 | 13 |
| m,p-Xylene (mg/kg) | 0.00387 J | 0.0017 J | 0.0015 J | 420 | 200 |
| Methyl tert-butyl ether (mg/kg) | 0.000408 UJ | 0.000321 U | 0.00038 UJ | 780 | 0.32 |
| Methylene chloride (mg/kg) | 0.000614 UJ | 0.000481 U | 0.000571 UJ | 13 | 0.02 |
| o-Xylene (mg/kg) | 0.00187 J | 0.00073 J | 0.000790 UJ | 410 | 190 |
| Styrene (mg/kg) | 0.000528 UJ | 0.000413 U | 0.000491 UJ | 1500 | 4 |
| Tetrachloroethene (mg/kg) | 0.00895 J | 0.000981 U | 0.0014 J | 11 | 0.06 |
| Toluene (mg/kg) | 0.0039 J | 0.0055 | 0.000555 UJ | 650 | 12 |
| trans-1,2-Dichloroethene (mg/kg) | 0.000845 UJ | 0.000662 U | 0.000786 UJ | 1600 | 0.7 |
| trans-1,3-Dichloropropene (mg/kg) | 0.000546 UJ | 0.000427 U | 0.000507 UJ | 1.1 | 0.004 |
| Trichloroethene (mg/kg) | 0.00848 J | 0.000632 U | 0.00091 J | 5 | 0.06 |
| Vinyl chloride (mg/kg) | 0.000659 UJ | 0.000517 U | 0.000613 UJ | 0.28 | 0.01 |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
b IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route
-- indicates no expsoure data available for compound
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with S indicates that the spike recovery outside of accepted recovery limits
Sample concentrations flagged with Q indicates that the internal standard recovery for this analyte in the sample is outside in-house laboratory criteria
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/kg = milligrams per kilogram
ft = feet
NA = Not Analyzed

# Table 3 - 3

## Soil Boring Samples
## VOC Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-104 | SB-106 | SB-106 | Screening Levels Residential | |
|---|---|---|---|---|---|
| Depth (ft) | 7 - 11 | 0 - 3 | 7 - 11 | | |
| Sample Date | 12/18/2002 | 12/18/2002 | 12/18/2002 | | |
| Chemical Name | | | | Ingestion/Inhalation[a] | Migration to Groundwater[b] |
| 1,1,1-Trichloroethane (mg/kg) | 0.000273 U | 0.00297 UQ | 0.000264 U | 1200 | 2 |
| 1,1,2,2-Tetrachloroethane (mg/kg) | 0.000406 UQ | 0.000443 UQ | 0.000393 U | -- | -- |
| 1,1,2-Trichloroethane (mg/kg) | 0.000849 U | 0.000927 UQ | 0.000821 U | 310 | 0.02 |
| 1,1-Dichloroethane (mg/kg) | 0.000294 U | 0.000322 UQ | 0.000285 U | 1300 | 23 |
| 1,1-Dichloroethene (mg/kg) | 0.000631 U | 0.000689 UQ | 0.00061 U | 1300 | 23 |
| 1,2-Dichloroethane (mg/kg) | 0.000358 U | 0.000391 UQ | 0.000346 U | 0.4 | 0.02 |
| 1,2-Dichloropropane (mg/kg) | 0.000551 U | 0.000602 UQ | 0.000533 U | 9 | 0.03 |
| 2-Butanone (mg/kg) | 0.0026 J | 0.0048 JQ | 0.00179 U | -- | -- |
| 2-Hexanone (mg/kg) | 0.000914 U | 0.000998 UQ | 0.000884 U | -- | -- |
| 4-Methyl-2-pentanone (mg/kg) | 0.000748 U | 0.000817 UQ | 0.000723 U | -- | -- |
| Acetone (mg/kg) | 0.0167 | 0.102 Q | 0.00351 U | 7800 | 16 |
| Benzene (mg/kg) | 0.00332 | 0.00095 JQ | 0.00179 | 0.8 | 0.03 |
| Bromodichloromethane (mg/kg) | 0.000248 U | 0.000271 UQ | 0.00024 U | 10 | 0.6 |
| Bromoform (mg/kg) | 0.000615 U | 0.000671 UQ | 0.000595 U | 53 | 0.8 |
| Bromomethane (mg/kg) | 0.003 U | 0.00328 UQ | 0.0029 U | -- | -- |
| Carbon disulfide (mg/kg) | 0.000488 U | 0.00663 Q | 0.000472 U | 720 | 32 |
| Carbon tetrachloride (mg/kg) | 0.000469 U | 0.000513 UQ | 0.000455 U | 0.3 | 0.07 |
| Chlorobenzene (mg/kg) | 0.000443 U | 0.000484 UQ | 0.000428 U | 130 | 1 |
| Chloroethane (mg/kg) | 0.00493 U | 0.00539 UQ | 0.00477 U | -- | -- |
| Chloroform (mg/kg) | 0.00091 J | 0.0003 UQ | 0.00068 J | 0.3 | 0.6 |
| Chloromethane (mg/kg) | 0.00135 U | 0.00147 UQ | 0.0013 U | -- | -- |
| cis-1,2-Dichloroethene (mg/kg) | 0.00035 U | 0.000383 UQ | 0.00034 U | 780 | 0.4 |
| cis-1,3-Dichloropropene (mg/kg) | 0.000357 U | 0.00039 UQ | 0.000346 U | 1.1 | 0.004 |
| Dibromochloromethane (mg/kg) | 0.000419 U | 0.000458 UQ | 0.000405 U | 1300 | 0.4 |
| Ethylbenzene (mg/kg) | 0.00094 J | 0.0012 JQ | 0.000446 U | 400 | 13 |
| m,p-Xylene (mg/kg) | 0.0013 | 0.00484 Q | 0.00101 U | 420 | 200 |
| Methyl tert-butyl ether (mg/kg) | 0.000322 U | 0.000351 UQ | 0.000311 U | 780 | 0.32 |
| Methylene chloride (mg/kg) | 0.000483 U | 0.000528 UQ | 0.000467 U | 13 | 0.02 |
| o-Xylene (mg/kg) | 0.000668 U | 0.00232 Q | 0.000646 U | 410 | 190 |
| Styrene (mg/kg) | 0.000416 U | 0.000454 UQ | 0.000403 U | 1500 | 4 |
| Tetrachloroethene (mg/kg) | 0.000985 U | 0.00393 Q | 0.000953 U | 11 | 0.06 |
| Toluene (mg/kg) | 0.0037 | 0.00177 Q | 0.00128 | 650 | 12 |
| trans-1,2-Dichloroethene (mg/kg) | 0.000665 U | 0.000726 UQ | 0.000643 U | 1600 | 0.7 |
| trans-1,3-Dichloropropene (mg/kg) | 0.000429 U | 0.000469 UQ | 0.000415 U | 1.1 | 0.004 |
| Trichloroethene (mg/kg) | 0.000636 U | 0.00225 Q | 0.000615 U | 5 | 0.06 |
| Vinyl chloride (mg/kg) | 0.000519 U | 0.000567 UQ | 0.000503 U | 0.28 | 0.01 |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
b IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route
-- indicates no expsoure data available for compound
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with S indicates that the spike recovery outside of accepted recovery limits
Sample concentrations flagged with Q indicates that the internal standard recovery for this analyte in the sample is outside in-house laboratory criteria
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/kg = milligrams per kilogram
ft = feet
NA = Not Analyzed

# Table 3 - 3

## Soil Boring Samples
## VOC Sampling Results
## *76th and Parnell Site, Chicago, Illinois*

| Field Sample ID | SB-108 | SB-108 | SB-110 | Screening Levels Residential | |
|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 | 7 - 11 | 0 - 3 | | |
| Sample Date | 12/18/2002 | 12/18/2002 | 12/19/2002 | | |
| **Chemical Name** | | | | **Ingestion/Inhalation[a]** | **Migration to Groundwater[b]** |
| 1,1,1-Trichloroethane (mg/kg) | 0.000261 U | 0.000242 U | 0.000246 U | 1200 | 2 |
| 1,1,2,2-Tetrachloroethane (mg/kg) | 0.00039 U | 0.00036 U | 0.000367 UQ | -- | -- |
| 1,1,2-Trichloroethane (mg/kg) | 0.000815 U | 0.000753 U | 0.000767 U | 310 | 0.02 |
| 1,1-Dichloroethane (mg/kg) | 0.000283 U | 0.000261 U | 0.000266 U | 1300 | 23 |
| 1,1-Dichloroethene (mg/kg) | 0.000605 | 0.000559 U | 0.00057 U | 1300 | 23 |
| 1,2-Dichloroethane (mg/kg) | 0.000344 U | 0.000318 U | 0.000324 U | 0.4 | 0.02 |
| 1,2-Dichloropropane (mg/kg) | 0.000529 U | 0.000489 U | 0.000498 U | 9 | 0.03 |
| 2-Butanone (mg/kg) | 0.0026 J | 0.0021 J | 0.00749 | -- | -- |
| 2-Hexanone (mg/kg) | 0.000877 U | 0.000811 U | 0.000826 UQ | -- | -- |
| 4-Methyl-2-pentanone (mg/kg) | 0.000718 U | 0.000664 U | 0.000676 U | -- | -- |
| Acetone (mg/kg) | 0.0351 | 0.02 | 0.0871 | 7800 | 16 |
| Benzene (mg/kg) | 0.000373 U | 0.001 J | 0.00135 | 0.8 | 0.03 |
| Bromodichloromethane (mg/kg) | 0.000238 U | 0.00022 U | 0.000224 U | 10 | 0.6 |
| Bromoform (mg/kg) | 0.00059 U | 0.000545 U | 0.000555 UQ | 53 | 0.8 |
| Bromomethane (mg/kg) | 0.00288 U | 0.00267 U | 0.00272 U | -- | -- |
| Carbon disulfide (mg/kg) | 0.0022 | 0.00079 J | 0.00171 | 720 | 32 |
| Carbon tetrachloride (mg/kg) | 0.000451 U | 0.000417 U | 0.000425 U | 0.3 | 0.07 |
| Chlorobenzene (mg/kg) | 0.000425 U | 0.000393 U | 0.0004 UQ | 130 | 1 |
| Chloroethane (mg/kg) | 0.00473 U | 0.00437 U | 0.00446 U | -- | -- |
| Chloroform (mg/kg) | 0.000264 U | 0.000244 U | 0.000248 U | 0.3 | 0.6 |
| Chloromethane (mg/kg) | 0.00129 U | 0.0012 U | 0.00694 | -- | -- |
| cis-1,2-Dichloroethene (mg/kg) | 0.000337 U | 0.000311 U | 0.000317 U | 780 | 0.4 |
| cis-1,3-Dichloropropene (mg/kg) | 0.000343 U | 0.000317 U | 0.000323 U | 1.1 | 0.004 |
| Dibromochloromethane (mg/kg) | 0.000403 U | 0.000372 U | 0.000379 UQ | 1300 | 0.4 |
| Ethylbenzene (mg/kg) | 0.000443 U | 0.000409 U | 0.00063 JQ | 400 | 13 |
| m,p-Xylene (mg/kg) | 0.0018 J | 0.000927 U | 0.0021 JQ | 420 | 200 |
| Methyl tert-butyl ether (mg/kg) | 0.000308 U | 0.000285 U | 0.00029 U | 780 | 0.32 |
| Methylene chloride (mg/kg) | 0.000464 U | 0.000429 U | 0.000437 U | 13 | 0.02 |
| o-Xylene (mg/kg) | 0.00072 J | 0.000593 U | 0.00094 JQ | 410 | 190 |
| Styrene (mg/kg) | 0.000399 U | 0.000369 U | 0.000376 UQ | 1500 | 4 |
| Tetrachloroethene (mg/kg) | 0.00171 | 0.000874 U | 0.00149 Q | 11 | 0.06 |
| Toluene (mg/kg) | 0.000451 U | 0.00066 J | 0.00118 | 650 | 12 |
| trans-1,2-Dichloroethene (mg/kg) | 0.000638 U | 0.00059 U | 0.000601 U | 1600 | 0.7 |
| trans-1,3-Dichloropropene (mg/kg) | 0.000412 U | 0.000381 U | 0.000388 U | 1.1 | 0.004 |
| Trichloroethene (mg/kg) | 0.00085 J | 0.000564 U | 0.00083 J | 5 | 0.06 |
| Vinyl chloride (mg/kg) | 0.000498 U | 0.0046 U | 0.000469 U | 0.28 | 0.01 |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
b IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route
-- indicates no expsoure data available for compound
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with S indicates that the spike recovery outside of accepted recovery limits
Sample concentrations flagged with Q indicates that the internal standard recovery for this analyte in the sample is outside in-house laboratory criteria
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/kg = milligrams per kilogram
ft = feet
NA = Not Analyzed

# Table 3 - 3

## Soil Boring Samples
## VOC Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-110 | SB-112 | SB-112 | Screening Levels Residential | |
|---|---|---|---|---|---|
| Depth (ft) | 7 - 11 | 0 - 3 | 7 - 11 | | |
| Sample Date | 12/19/2002 | 12/19/2002 | 12/19/2002 | | |
| Chemical Name | | | | Ingestion/Inhalation[a] | Migration to Groundwater[b] |
| 1,1,1-Trichloroethane (mg/kg) | 0.000252 U | 0.000264 U | 0.000254 U | 1200 | 2 |
| 1,1,2,2-Tetrachloroethane (mg/kg) | 0.000376 UQ | 0.000394 UQS | 0.000378 U | -- | -- |
| 1,1,2-Trichloroethane (mg/kg) | 0.000785 U | 0.000826 U | 0.00079 U | 310 | 0.02 |
| 1,1-Dichloroethane (mg/kg) | 0.000272 U | 0.000286 U | 0.000274 U | 1300 | 23 |
| 1,1-Dichloroethene (mg/kg) | 0.000583 U | 0.000612 U | 0.000587 U | 1300 | 23 |
| 1,2-Dichloroethane (mg/kg) | 0.000331 U | 0.000347 U | 0.000334 U | 0.4 | 0.02 |
| 1,2-Dichloropropane (mg/kg) | 0.000509 U | 0.000534 U | 0.000513 U | 9 | 0.03 |
| 2-Butanone (mg/kg) | 0.00171 U | 0.0037 JS | 0.003 J | -- | -- |
| 2-Hexanone (mg/kg) | 0.000845 U | 0.000887 US | 0.000851 U | -- | -- |
| 4-Methyl-2-pentanone (mg/kg) | 0.000692 U | 0.000726 US | 0.000697 U | -- | -- |
| Acetone (mg/kg) | 0.0136 | 0.0393 | 0.0221 | 7800 | 16 |
| Benzene (mg/kg) | 0.00067 J | 0.0011 JS | 0.00198 | 0.8 | 0.03 |
| Bromodichloromethane (mg/kg) | 0.000229 U | 0.00024 U | 0.000231 U | 10 | 0.6 |
| Bromoform (mg/kg) | 0.000568 U | 0.000596 US | 0.000572 U | 53 | 0.8 |
| Bromomethane (mg/kg) | 0.00278 U | 0.00292 U | 0.0028 U | -- | -- |
| Carbon disulfide (mg/kg) | 0.000452 U | 0.0212 | 0.00099 J | 720 | 32 |
| Carbon tetrachloride (mg/kg) | 0.000435 U | 0.000456 US | 0.000437 U | 0.3 | 0.07 |
| Chlorobenzene (mg/kg) | 0.00041 U | 0.00043 US | 0.000412 U | 130 | 1 |
| Chloroethane (mg/kg) | 0.00456 U | 0.00478 US | 0.00459 U | -- | -- |
| Chloroform (mg/kg) | 0.000254 U | 0.00117 | 0.00065 J | 0.3 | 0.6 |
| Chloromethane (mg/kg) | 0.00125 U | 0.00131 U | 0.00126 U | -- | -- |
| cis-1,2-Dichloroethene (mg/kg) | 0.000325 U | 0.00034 U | 0.000327 U | 780 | 0.4 |
| cis-1,3-Dichloropropene (mg/kg) | 0.00033 U | 0.000346 U | 0.000332 U | 1.1 | 0.004 |
| Dibromochloromethane (mg/kg) | 0.000388 U | 0.000407 US | 0.000391 U | 1300 | 0.4 |
| Ethylbenzene (mg/kg) | 0.00083 J | 0.000447 US | 0.000429 U | 400 | 13 |
| m,p-Xylene (mg/kg) | 0.00281 | 0.00101 US | 0.000973 U | 420 | 200 |
| Methyl tert-butyl ether (mg/kg) | 0.000297 U | 0.00312 US | 0.000299 U | 780 | 0.32 |
| Methylene chloride (mg/kg) | 0.000447 U | 0.000469 US | 0.00045 U | 13 | 0.02 |
| o-Xylene (mg/kg) | 0.0012 | 0.000649 U | 0.000623 U | 410 | 190 |
| Styrene (mg/kg) | 0.000385 U | 0.000403 U | 0.000387 U | 1500 | 4 |
| Tetrachloroethene (mg/kg) | 0.00211 | 0.000956 US | 0.000917 U | 11 | 0.06 |
| Toluene (mg/kg) | 0.00137 | 0.0009 J | 0.00204 | 650 | 12 |
| trans-1,2-Dichloroethene (mg/kg) | 0.000615 U | 0.000645 U | 0.000619 U | 1600 | 0.7 |
| trans-1,3-Dichloropropene (mg/kg) | 0.000397 U | 0.000416 US | 0.0004 U | 1.1 | 0.004 |
| Trichloroethene (mg/kg) | 0.00144 | 0.000616 US | 0.000592 U | 5 | 0.06 |
| Vinyl chloride (mg/kg) | 0.00048 U | 0.000503 U | 0.000483 U | 0.28 | 0.01 |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
b IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route
-- indicates no expsoure data available for compound
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with S indicates that the spike recovery outside of accepted recovery limits
Sample concentrations flagged with Q indicates that the internal standard recovery for this analyte in the sample is outside in-house laboratory criteria
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/kg = milligrams per kilogram
ft = feet
NA = Not Analyzed

# Table 3 - 3

## Soil Boring Samples
## VOC Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-114 | SB-114 | SB-116 | Screening Levels Residential | |
|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 | 7-11 | 0 - 3 | | |
| Sample Date | 12/19/2002 | 12/19/2002 | 12/19/2002 | | |
| Chemical Name | | | | Ingestion/Inhalation[a] | Migration to Groundwater[b] |
| 1,1,1-Trichloroethane (mg/kg) | 0.000235 U | 0.000258 U | 0.000324 UQ | 1200 | 2 |
| 1,1,2,2-Tetrachloroethane (mg/kg) | 0.00035 UQ | 0.00385 U | 0.000483 UQ | -- | -- |
| 1,1,2-Trichloroethane (mg/kg) | 0.000731 U | 0.000805 U | 0.00101 UQ | 310 | 0.02 |
| 1,1-Dichloroethane (mg/kg) | 0.000254 U | 0.000279 U | 0.00035 UQ | 1300 | 23 |
| 1,1-Dichloroethene (mg/kg) | 0.000543 U | 0.000598 U | 0.000749 UQ | 1300 | 23 |
| 1,2-Dichloroethane (mg/kg) | 0.000309 U | 0.00034 U | 0.000426 UQ | 0.4 | 0.02 |
| 1,2-Dichloropropane (mg/kg) | 0.000474 U | 0.000522 U | 0.000655 UQ | 9 | 0.03 |
| 2-Butanone (mg/kg) | 0.0538 | 0.00176 U | 0.0053 JQ | -- | -- |
| 2-Hexanone (mg/kg) | 0.000787 U | 0.000867 U | 0.00109 UQ | -- | -- |
| 4-Methyl-2-pentanone (mg/kg) | 0.000645 U | 0.00071 U | 0.000889 UQ | -- | -- |
| Acetone (mg/kg) | 0.322 E | 0.0257 | 0.112 | 7800 | 16 |
| Benzene (mg/kg) | 0.00232 | 0.0015 | 0.00322 Q | 0.8 | 0.03 |
| Bromodichloromethane (mg/kg) | 0.000213 U | 0.000235 U | 0.000294 UQ | 10 | 0.6 |
| Bromoform (mg/kg) | 0.000529 U | 0.000583 U | 0.00073 UQ | 53 | 0.8 |
| Bromomethane (mg/kg) | 0.0174 | 0.00285 U | 0.00357 UQ | -- | -- |
| Carbon disulfide (mg/kg) | 0.00271 | 0.001 J | 0.00899 Q | 720 | 32 |
| Carbon tetrachloride (mg/kg) | 0.000405 U | 0.000446 U | 0.000558 UQ | 0.3 | 0.07 |
| Chlorobenzene (mg/kg) | 0.000381 U | 0.00042 U | 0.000526 UQ | 130 | 1 |
| Chloroethane (mg/kg) | 0.00425 U | 0.00468 U | 0.00586 UQ | -- | -- |
| Chloroform (mg/kg) | 0.00056 J | 0.000261 U | 0.000327 UQ | 0.3 | 0.6 |
| Chloromethane (mg/kg) | 0.0214 | 0.00128 U | 0.0016 UQ | -- | -- |
| cis-1,2-Dichloroethene (mg/kg) | 0.000302 U | 0.000333 U | 0.000417 UQ | 780 | 0.4 |
| cis-1,3-Dichloropropene (mg/kg) | 0.000308 U | 0.000339 U | 0.000424 UQ | 1.1 | 0.004 |
| Dibromochloromethane (mg/kg) | 0.000361 U | 0.000398 U | 0.000499 UQ | 1300 | 0.4 |
| Ethylbenzene (mg/kg) | 0.00087 J | 0.000437 U | 0.00077 JQ | 400 | 13 |
| m,p-Xylene (mg/kg) | 0.00222 | 0.000991 U | 0.0027 JQ | 420 | 200 |
| Methyl tert-butyl ether (mg/kg) | 0.000277 U | 0.000305 U | 0.000382 UQ | 780 | 0.32 |
| Methylene chloride (mg/kg) | 0.000416 U | 0.000458 U | 0.000574 UQ | 13 | 0.02 |
| o-Xylene (mg/kg) | 0.00129 | 0.000634 U | 0.0012 JQ | 410 | 190 |
| Styrene (mg/kg) | 0.000358 U | 0.000394 U | 0.000494 UQ | 1500 | 4 |
| Tetrachloroethene (mg/kg) | 0.000849 U | 0.000934 U | 0.00229 Q | 11 | 0.06 |
| Toluene (mg/kg) | 0.00157 | 0.00099 J | 0.00222 Q | 650 | 12 |
| trans-1,2-Dichloroethene (mg/kg) | 0.000573 U | 0.000631 U | 0.00079 UQ | 1600 | 0.7 |
| trans-1,3-Dichloropropene (mg/kg) | 0.00037 U | 0.000407 U | 0.00051 UQ | 1.1 | 0.004 |
| Trichloroethene (mg/kg) | 0.00064 J | 0.000603 U | 0.00085 JQ | 5 | 0.06 |
| Vinyl chloride (mg/kg) | 0.000447 U | 0.000492 U | 0.000617 UQ | 0.28 | 0.01 |

a *Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes*
b IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route
*-- indicates no expsoure data available for compound*
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with S indicates that the spike recovery outside of accepted recovery limits
Sample concentrations flagged with Q indicates that the internal standard recovery for this analyte in the sample is outside in-house laboratory criteria
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/kg = milligrams per kilogram
ft = feet
NA = Not Analyzed

# Table 3 - 3

## Soil Boring Samples
## VOC Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-116 | SB-116 | SB-116 | Screening Levels Residential | |
|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 (DUP) | 7 - 11 | 7 - 11 (DUP) | | |
| Sample Date | 12/19/2002 | 12/19/2002 | 12/19/2002 | | |
| Chemical Name | | | | Ingestion/Inhalation[a] | Migration to Groundwater[b] |
| 1,1,1-Trichloroethane (mg/kg) | 0.000224 UQ | 0.000252 U | 0.000238 U | 1200 | 2 |
| 1,1,2,2-Tetrachloroethane (mg/kg) | 0.000334 UQ | 0.000375 U | 0.000354 U | -- | -- |
| 1,1,2-Trichloroethane (mg/kg) | 0.000699 UQ | 0.000785 U | 0.00074 U | 310 | 0.02 |
| 1,1-Dichloroethane (mg/kg) | 0.000242 UQ | 0.000272 U | 0.000257 U | 1300 | 23 |
| 1,1-Dichloroethene (mg/kg) | 0.000519 UQ | 0.000583 U | 0.00055 | 1300 | 23 |
| 1,2-Dichloroethane (mg/kg) | 0.000295 UQ | 0.000331 U | 0.000312 U | 0.4 | 0.02 |
| 1,2-Dichloropropane (mg/kg) | 0.000453 UQ | 0.000509 U | 0.00048 U | 9 | 0.03 |
| 2-Butanone (mg/kg) | 0.00747 Q | 0.00171 U | 0.00162 U | -- | -- |
| 2-Hexanone (mg/kg) | 0.000752 UQ | 0.000845 U | 0.000797 U | -- | -- |
| 4-Methyl-2-pentanone (mg/kg) | 0.000616 UQ | 0.000692 U | 0.000653 U | -- | -- |
| Acetone (mg/kg) | 0.106 Q | 0.00336 U | 0.00317 U | 7800 | 16 |
| Benzene (mg/kg) | 0.00421 Q | 0.00193 | 0.00168 | 0.8 | 0.03 |
| Bromodichloromethane (mg/kg) | 0.000204 UQ | 0.000229 U | 0.000216 U | 10 | 0.6 |
| Bromoform (mg/kg) | 0.000506 UQ | 0.000568 U | 0.000536 U | 53 | 0.8 |
| Bromomethane (mg/kg) | 0.00247 UQ | 0.00278 U | 0.00262 U | -- | -- |
| Carbon disulfide (mg/kg) | 0.00343 Q | 0.000451 U | 0.000426 U | 720 | 32 |
| Carbon tetrachloride (mg/kg) | 0.000387 UQ | 0.000434 U | 0.00041 U | 0.3 | 0.07 |
| Chlorobenzene (mg/kg) | 0.000365 UQ | 0.00041 U | 0.000386 U | 130 | 1 |
| Chloroethane (mg/kg) | 0.00406 UQ | 0.00456 U | 0.0043 U | -- | -- |
| Chloroform (mg/kg) | 0.000226 UQ | 0.00061 J | 0.00067 J | 0.3 | 0.6 |
| Chloromethane (mg/kg) | 0.00111 UQ | 0.00125 U | 0.00118 U | -- | -- |
| cis-1,2-Dichloroethene (mg/kg) | 0.000289 UQ | 0.000324 U | 0.000306 U | 780 | 0.4 |
| cis-1,3-Dichloropropene (mg/kg) | 0.000294 UQ | 0.00033 U | 0.000311 U | 1.1 | 0.004 |
| Dibromochloromethane (mg/kg) | 0.000345 UQ | 0.000388 U | 0.000366 U | 1300 | 0.4 |
| Ethylbenzene (mg/kg) | 0.00086 JQ | 0.000427 U | 0.000402 U | 400 | 13 |
| m,p-Xylene (mg/kg) | 0.00366 Q | 0.000967 U | 0.000912 U | 420 | 200 |
| Methyl tert-butyl ether (mg/kg) | 0.000265 UQ | 0.000297 U | 0.00028 U | 780 | 0.32 |
| Methylene chloride (mg/kg) | 0.000398 UQ | 0.000447 U | 0.000422 U | 13 | 0.02 |
| o-Xylene (mg/kg) | 0.00132 Q | 0.000618 U | 0.000583 U | 410 | 190 |
| Styrene (mg/kg) | 0.000342 UQ | 0.000385 U | 0.000363 U | 1500 | 4 |
| Tetrachloroethene (mg/kg) | 0.00235 Q | 0.000911 U | 0.000859 U | 11 | 0.06 |
| Toluene (mg/kg) | 0.00293 Q | 0.0015 | 0.00131 | 650 | 12 |
| trans-1,2-Dichloroethene (mg/kg) | 0.000547 UQ | 0.000615 U | 0.00058 U | 1600 | 0.7 |
| trans-1,3-Dichloropropene (mg/kg) | 0.000354 UQ | 0.000397 U | 0.000374 U | 1.1 | 0.004 |
| Trichloroethene (mg/kg) | 0.00119 Q | 0.00061 J | 0.000554 U | 5 | 0.06 |
| Vinyl chloride (mg/kg) | 0.000427 UQ | 0.00048 U | 0.000453 U | 0.28 | 0.01 |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
b IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route
-- indicates no expsoure data available for compound
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with S indicates that the spike recovery outside of accepted recovery limits
Sample concentrations flagged with Q indicates that the internal standard recovery for this analyte in the sample is outside in-house laboratory criteria
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/kg = milligrams per kilogram
ft = feet
NA = Not Analyzed

# Table 3 - 3

## Soil Boring Samples
## VOC Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-118 | SB-118 | Screening Levels Residential | |
|---|---|---|---|---|
| Depth (ft) | 0 - 3 | 7 - 11 | | |
| Sample Date | 12/19/2002 | 12/19/2002 | | |
| Chemical Name | | | Ingestion/Inhalation[a] | Migration to Groundwater[b] |
| 1,1,1-Trichloroethane (mg/kg) | 0.00461 U | 0.00025 U | 1200 | 2 |
| 1,1,2,2-Tetrachloroethane (mg/kg) | 0.000687 UQ | 0.000373 U | -- | -- |
| 1,1,2-Trichloroethane (mg/kg) | 0.00144 U | 0.00078 U | 310 | 0.02 |
| 1,1-Dichloroethane (mg/kg) | 0.000498 U | 0.000271 U | 1300 | 23 |
| 1,1-Dichloroethene (mg/kg) | 0.00107 U | 0.00058 U | 1300 | 23 |
| 1,2-Dichloroethane (mg/kg) | 0.000606 U | 0.000329 U | 0.4 | 0.02 |
| 1,2-Dichloropropane (mg/kg) | 0.000932 U | 0.000506 U | 9 | 0.03 |
| 2-Butanone (mg/kg) | 0.0083 J | 0.0017 U | -- | -- |
| 2-Hexanone (mg/kg) | 0.00155 U | 0.00084 U | -- | -- |
| 4-Methyl-2-pentanone (mg/kg) | 0.00127 U | 0.000688 U | -- | -- |
| Acetone (mg/kg) | 0.135 | 0.0385 | 7800 | 16 |
| Benzene (mg/kg) | 0.0013 J | 0.001 J | 0.8 | 0.03 |
| Bromodichloromethane (mg/kg) | 0.000419 U | 0.000228 U | 10 | 0.6 |
| Bromoform (mg/kg) | 0.00104 U | 0.000565 U | 53 | 0.8 |
| Bromomethane (mg/kg) | 0.00508 U | 0.00276 U | -- | -- |
| Carbon disulfide (mg/kg) | 0.002 J | 0.00126 | 720 | 32 |
| Carbon tetrachloride (mg/kg) | 0.000795 U | 0.000432 U | 0.3 | 0.07 |
| Chlorobenzene (mg/kg) | 0.000749 U | 0.000407 U | 130 | 1 |
| Chloroethane (mg/kg) | 0.00834 U | 0.00453 U | -- | -- |
| Chloroform (mg/kg) | 0.0012 J | 0.000253 U | 0.3 | 0.6 |
| Chloromethane (mg/kg) | 0.00228 U | 0.00124 U | -- | -- |
| cis-1,2-Dichloroethene (mg/kg) | 0.000594 U | 0.000323 U | 780 | 0.4 |
| cis-1,3-Dichloropropene (mg/kg) | 0.000604 U | 0.000328 U | 1.1 | 0.004 |
| Dibromochloromethane (mg/kg) | 0.00071 U | 0.000386 U | 1300 | 0.4 |
| Ethylbenzene (mg/kg) | 0.00078 U | 0.000424 U | 400 | 13 |
| m,p-Xylene (mg/kg) | 0.0031 J | 0.000961 U | 420 | 200 |
| Methyl tert-butyl ether (mg/kg) | 0.000544 U | 0.000295 U | 780 | 0.32 |
| Methylene chloride (mg/kg) | 0.000818 U | 0.000444 U | 13 | 0.02 |
| o-Xylene (mg/kg) | 0.0014 J | 0.000615 U | 410 | 190 |
| Styrene (mg/kg) | 0.000704 U | 0.000382 U | 1500 | 4 |
| Tetrachloroethene (mg/kg) | 0.0021 J | 0.000905 U | 11 | 0.06 |
| Toluene (mg/kg) | 0.00237 | 0.00064 J | 650 | 12 |
| trans-1,2-Dichloroethene (mg/kg) | 0.00112 U | 0.000611 U | 1600 | 0.7 |
| trans-1,3-Dichloropropene (mg/kg) | 0.000726 U | 0.000395 U | 1.1 | 0.004 |
| Trichloroethene (mg/kg) | 0.00253 | 0.000584 U | 5 | 0.06 |
| Vinyl chloride (mg/kg) | 0.000878 U | 0.000477 U | 0.28 | 0.01 |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
b IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route
-- indicates no expsoure data available for compound
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with S indicates that the spike recovery outside of accepted recovery limits
Sample concentrations flagged with Q indicates that the internal standard recovery for this analyte in the sample is outside in-house laboratory criteria
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/kg = milligrams per kilogram
ft = feet
NA = Not Analyzed

# Table 3 - 4

## Soil Boring Samples
## SVOC Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-103 | SB-106 | SB-112 | SB-118 | Screening Levels Residential | |
|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 | 0 - 3 | 0 - 3 | 7 - 11 | | |
| Sample Date | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | | |
| Chemical Name | | | | | Ingestion/Inhalation[a] | Migration to Groundwater[b] |
| 1,2,4-Trichlorobenzene (mg/kg) | 0.0917 U | 0.375 U | 0.185 U | 0.106 U | 780 | 5 |
| 1,2-Dichlorobenzene (mg/kg) | 0.169 U | 0.69 U | 0.034 U | 0.195 U | 560 | 17 |
| 1,3-Dichlorobenzene (mg/kg) | 0.0871 U | 0.356 U | 0.175 U | 0.1 U | -- | -- |
| 1,4-Dichlorobenzene (mg/kg) | 0.0793 U | 0.324 U | 0.0159 U | 0.0913 | 11000 | 2 |
| 2,4,5-Trichlorophenol (mg/kg) | 0.0649 U | 0.265 U | 0.131 U | 0.0747 U | 7800 | 270 |
| 2,4,6-Trichlorophenol (mg/kg) | 0.0681 U | **0.278 U** | 0.137 U | 0.0784 U | 58 | 0.2 |
| 2,4-Dichlorophenol (mg/kg) | 0.0692 U | 0.282 U | 0.14 U | 0.0797 U | 230 | 1 |
| 2,4-Dimethylphenol (mg/kg) | 0.0796 U | 0.325 U | 0.16 U | 0.0917 U | 1600 | 9 |
| 2,4-Dinitrophenol (mg/kg) | 0.0545 U | **0.223 U** | 0.109 U | 0.0628 U | 160 | 0.2 |
| 2,4-Dinitrotoluene (mg/kg) | **0.0387 U** | **0.158 U** | **0.0779 U** | **0.0446 U** | 0.9 | 0.0008 |
| 2,6-Dinitrotoluene (mg/kg) | **0.0756 U** | **0.309 U** | **0.153 U** | **0.0871 U** | 0.9 | 0.0007 |
| 2-Chloronaphthalene (mg/kg) | 0.0509 U | 0.208 U | 0.102 U | 0.0586 U | -- | -- |
| 2-Chlorophenol (mg/kg) | 0.177 U | 0.725 U | 0.357 U | 0.204 U | 390 | 4 |
| *2-Methylnaphthalene (mg/kg)* | *0.659* | *1.01* | *0.136 U* | *0.0781 U* | -- | -- |
| 2-Nitroaniline (mg/kg) | 0.0341 U | 0.139 U | 0.0686 U | 0.0393 U | -- | -- |
| 2-Nitrophenol (mg/kg) | 0.0459 U | 0.188 U | 0.0924 U | 0.0529 U | -- | -- |
| 3,3-Dichlorobenzidine (mg/kg) | **0.0631 U** | **0.258 U** | **0.127 U** | **0.0727 U** | 1 | 0.007 |
| 3-Nitroaniline (mg/kg) | 0.0423 U | 0.173 U | 0.085 U | 0.0487 U | -- | -- |
| 4,6-Dinitro-2-methylphenol (mg/kg) | 0.0384 U | 0.157 U | 0.0772 U | 0.0442 U | -- | -- |
| 4-Bromophenyl phenyl ether (mg/kg) | 0.0267 U | 0.109 U | 0.0537 U | 0.0307 U | -- | -- |
| 4-Chloro-3-methylphenol (mg/kg) | 0.0993 U | 0.405 U | 0.2 U | 0.114 U | -- | -- |
| 4-Chloroaniline (mg/kg) | 0.038 U | 0.155 U | 0.0764 U | 0.0437 U | 310 | 0.7 |
| 4-Chlorophenyl phenyl ether (mg/kg) | 0.0297 U | 0.121 U | 0.0567 U | 0.0342 U | -- | -- |
| 4-Nitroaniline (mg/kg) | 0.0535 U | 0.218 U | 0.108 U | 0.0616 U | -- | -- |
| 4-Nitrophenol (mg/kg) | 0.0387 UJ | 0.158 UJ | 0.0779 UJ | 0.0446 UJ | -- | -- |
| Bis(2-chloroethoxy)methane (mg/kg) | 0.0857 U | 0.350 U | 0.172 U | 0.0988 U | -- | -- |
| Bis(2-chloroethyl)ether (mg/kg) | **0.154 U** | **0.628 U** | **0.309 U** | **0.177 U** | 0.2 | 0.0004 |
| Bis(2-chloroisopropyl)ether (mg/kg) | 0.154 U | 0.628 U | 0.309 U | 0.177 U | -- | -- |
| Bis(2-ethylhexyl)phthalate (mg/kg) | 0.18 U | 0.734 UQ | 0.543 UQ | 0.207 UQ | 46 | 3,600 |
| Butyl benzyl phthalate (mg/kg) | 0.0771 U | 0.315 UQ | 0.155 UQ | 0.0888 UQ | 930 | 930 |
| Carbazole (mg/kg) | **1.620** | **6.1** | **1.43 U** | 0.207 U | 32 | 0.6 |
| Dibenzofuran (mg/kg) | 1.060 | 2.63 | 0.0671 U | 0.0384 U | -- | -- |
| Diethyl phthalate (mg/kg) | 0.0405 U | 0.166 U | 0.0816 U | 0.0467 U | 2000 | 470 |
| Dimethyl phthalate (mg/kg) | 0.0541 U | 0.221 U | 0.109 U | 0.0623 U | -- | -- |
| Di-n-butyl phthalate (mg/kg) | 0.0864 U | 0.353 U | 0.174 U | 0.0995 U | 2300 | 2300 |
| *Di-n-octyl phthalate (mg/kg)* | *0.0487 UQ* | *0.199 UQ* | *0.098 UQ* | *0.0561 UQ* | 1600 | 10000 |
| Hexachlorobutadiene (mg/kg) | 0.0979 U | 0.4 U | 0.197 U | 0.113 U | -- | -- |
| Hexachlorocyclopentadiene (mg/kg) | 0.0889 U | 0.363 U | 0.178 U | 0.102 U | 10 | 400 |
| Hexachloroethane (mg/kg) | 0.104 U | 0.426 U | 0.210 U | 0.12 U | 78 | 0.5 |
| Isophorone (mg/kg) | 0.0459 U | 0.188 U | 0.0924 U | 0.0529 U | 4600 | 8 |
| m,p-Cresol (mg/kg) | 0.199 U | 0.813 U | 0.4 U | 0.229 U | -- | -- |
| Nitrobenzene (mg/kg) | **0.115 U** | **0.47 U** | **0.232** | **0.133 U** | 39 | 0.1 |
| N-Nitrosodi-n-propylamine (mg/kg) | **0.0879 U** | **0.359 U** | **0.520 J** | **0.101 U** | 0.09 | 0.00005 |
| N-Nitrosodiphenylamine (mg/kg) | **0.0423 U** | **0.173 U** | **0.085 U** | **0.0487 U** | 0.09 | 0.00005 |
| o-Cresol (mg/kg) | 0.0592 U | 0.242 U | 0.119 U | 0.0682 U | 3900 | 15 |
| Pentachlorophenol (mg/kg) | **0.0323 UJ** | **0.132 UJ** | **0.0785 UJ** | **0.0372 UJ** | 3 | 0.03 |
| Phenol (mg/kg) | 0.0412 U | 0.29 J | 0.0829 U | 0.0475 U | 47000 | 100 |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
b IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route
-- indicates no expsoure data available for compound
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with Q indicates that the internal standard recovery for this analyte in the sample is outside in-house laboratory criteria
Sample concentrations flagged with U, but above the applicable screening levels will not be treated as exceedances
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/kg = milligrams per kilogram
ft = feet
NA = Not Analyzed

# Table 3 - 5

## Soil Boring Samples
## Pesticide/PCB Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-103 | SB-103 | SB-106 | SB-112 | SB-118 | Screening Levels Residential | |
|---|---|---|---|---|---|---|---|
| Depth (ft) | 7 - 11 | 7 - 11 (DUP) | 7 - 11 | 7 - 11 | 0 - 3 | | |
| Sample Date | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/19/2002 | 12/19/2002 | | |
| Chemical Name | | | | | | Ingestion/Inhalation[a] | Migration to Groundwater[b] |
| 4,4-DDD (mg/kg) | 0.00248 U | 0.00249 U | 0.00253 U | 0.00224 U | 0.0236 U | 3 | 16 |
| 4,4-DDE (mg/kg) | 0.00496 U | 0.00498 U | 0.00505 U | 0.00448 U | 0.0472 U | 2 | 54 |
| 4,4-DDT (mg/kg) | 0.00248 S | 0.00249 US | 0.00253 US | 0.00224 U | 0.0236 U | 2 | 32 |
| Aldrin (mg/kg) | 0.00496 U | 0.00498 U | 0.00505 U | 0.00448 U | 0.0472 U | 0.04 | 0.5 |
| alpha-BHC (mg/kg) | **0.00496 U** | **0.00498 U** | **0.00505 U** | **0.00448 U** | 0.0472 U | 0.1 | 0.0005 |
| alpha-Chlordane (mg/kg) | 0.00372 U | 0.00374 U | 0.00379 U | 0.00336 U | 0.0354 U | -- | -- |
| beta-BHC (mg/kg) | 0.00743 U | 0.00747 U | 0.00758 U | 0.00672 U | 0.0708 U | -- | -- |
| Chlordane (mg/kg) | 0.124 U | 0.125 U | 0.126 U | 0.112 U | 1.180 U | 1.8 | 10 |
| delta-BHC (mg/kg) | 0.00248 US | 0.00249 US | 0.00253 US | 0.00224 U | 0.0236 U | -- | -- |
| Dieldrin (mg/kg) | **0.0149 U** | 0.0149 U | **0.0152 U** | **0.0134 U** | **0.142 U** | 0.04 | 0.004 |
| Endosulfan I (mg/kg) | 0.00496 U | 0.00498 U | 0.00505 U | 0.00448 U | 0.0472 U | 470 | 18 |
| Endosulfan II (mg/kg) | 0.00372 U | 0.00374 U | 0.00379 U | 0.00336 U | 0.0354 U | -- | -- |
| Endosulfan sulfate (mg/kg) | 0.00496 U | 0.00498 U | 0.00505 U | 0.00448 U | 0.0472 U | -- | -- |
| Endrin (mg/kg) | 0.00496 U | 0.00498 U | 0.00505 U | 0.00448 U | 0.0472 U | 23 | 1 |
| Endrin aldehyde (mg/kg) | 0.0273 U | 0.0274 U | 0.0278 U | 0.0246 U | 0.259 U | -- | -- |
| Endrin ketone (mg/kg) | 0.00248 U | 0.00249 U | 0.00253 U | 0.00224 U | 0.0236 U | -- | -- |
| gamma-BHC (mg/kg) | 0.00248 U | 0.00249 U | 0.00253 U | 0.00224 U | 0.0236 U | 0.5 | 0.009 |
| gamma-Chlordane (mg/kg) | 0.00496 U | 0.00498 U | 0.00505 U | 0.00448 U | 0.0472 U | -- | -- |
| Heptachlor (mg/kg) | 0.00124 U | 0.00125 U | 0.00126 U | 0.00112 U | 0.0118 U | 0.1 | 23 |
| Heptachlor epoxide (mg/kg) | 0.00743 U | 0.00747 U | 0.00758 U | 0.00672 U | 0.0708 U | 0.07 | 0.7 |
| Methoxychlor (mg/kg) | 0.0322 S | 0.0324 US | 0.0328 US | 0.0291 U | 0.307 U | 390 | 160 |
| Toxaphene (mg/kg) | 0.248 U | 0.249 U | 0.253 U | 0.224 U | 2.36 U | 0.6 | 31 |
| Aroclor 1016 (mg/kg) | 0.124 U | 0.126 U | 0.126 U | 0.112 U | 1.18 U | 1.0 | -- |
| Aroclor 1221 (mg/kg) | 0.124 U | 0.126 U | 0.126 U | 0.112 U | 1.18 U | 1.0 | -- |
| Aroclor 1232 (mg/kg) | 0.124 U | 0.126 U | 0.126 U | 0.112 U | 1.18 U | 1.0 | -- |
| Aroclor 1242 (mg/kg) | 0.124 U | 0.126 U | 0.126 U | 0.112 U | 1.18 U | 1.0 | -- |
| Aroclor 1248 (mg/kg) | 0.124 U | 0.126 U | 0.126 U | 0.112 U | 1.18 U | 1.0 | -- |
| Aroclor 1254 (mg/kg) | 0.124 U | 0.126 U | 0.126 U | 0.112 U | 1.18 U | 1.0 | -- |
| Aroclor 1260 (mg/kg) | 0.124 U | 0.126 U | 0.126 U | 0.112 U | 1.18 U | 1.0 | -- |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
b IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route
-- indicates no expsoure data available for compound
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with U, but above the applicable screening levels will not be treated as exceedances
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/kg = milligrams per kilogram
ft = feet
NA = Not Analyzed

# Table 3 - 6

## Soil Boring Samples
## TAL Metals Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-104 | SB-104 | SB-108 | SB-108 | SB-108 | Screening Levels Residential |
|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 | 7 - 11 | 0 - 3 | 7 - 11 | 7 - 11 (DUP) | |
| Sample Date | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/18/2002 | |
| Chemical Name | | | | | | Ingestion/Inhalation[a] |
| Aluminum (mg/kg) | 6190 J+ | 1620 J+ | 5930 J+ | 5850 J+ | 2640 J+ | -- |
| Antimony (mg/kg) | 0.23 U | 0.29 U | 0.27 U | 0.25 U | 0.31 U | 31 |
| Arsenic (mg/kg) | 0.39 U | 0.49 U | 0.46 U | 0.43 U | 0.54 U | 750 |
| Barium (mg/kg) | 18.8 | 5.35 | 73 | 4.82 | 9.22 | 5500 |
| Beryllium (mg/kg) | 0.12 U | 0.14 U | 0.38 J | 0.12 U | 0.15 U | 160 |
| Cadmium (mg/kg) | 0.023 U | 0.029 U | 0.027 U | 0.025 U | 0.031 U | 78 |
| Calcium (mg/kg) | 83300 J+ | 72500 J+ | 21500 J+ | 69600 J+ | 63000 J+ | -- |
| Chromium (mg/kg) | 4.33 | 2.87 | 8.42 | 3.32 | 4.67 | 230 |
| Cobalt (mg/kg) | 2.27 | 1.89 | 0.798 | 3.13 | 4.81 | 4700 |
| Copper (mg/kg) | 64.1 | 4.38 | 286 | 4.12 | 8.96 | 2900 |
| Iron (mg/kg) | 15700 | 4860 | 6610 | 42100 | 8870 | -- |
| Lead (mg/kg) | 44 | 3.27 | 319 | 4.32 | 7.25 | 400 |
| Magnesium (mg/kg) | 37500 | 32300 | 34000 | 3690 | 21100 | -- |
| Manganese (mg/kg) | 99.4 | 171 | 108 | 176 | 175 | 3700 |
| Nickel (mg/kg) | 6.52 | 3.33 | 5.83 | 4.63 | 7.82 | 1600 |
| Potassium (mg/kg) | 570 | 314 | 572 | 422 | 619 | -- |
| Selenium (mg/kg) | 0.30 U | 0.38 U | 0.36 U | 0.32 U | 0.4 U | 390 |
| Silver (mg/kg) | 0.023 U | 0.029 U | 0.36 U | 0.025 U | 0.0031 U | 390 |
| Sodium (mg/kg) | 1060 J+ | 865 J | 1070 J+ | 633 J+ | 1060 J+ | -- |
| Thallium (mg/kg) | 0.25 U | 0.31 U | 2 | 0.27 U | 0.34 U | 6.3 |
| Vanadium (mg/kg) | 5.23 | 2.87 | 6.83 | 3.18 | 5.83 | 550 |
| Zinc (mg/kg) | 69.6 | 11.1 | 129 | 6.96 | 18.2 | 23000 |
| Cyanide (mg/kg) | 0.32 | 0.13 U | 0.93 | 0.13 U | 0.13 U | 1600 |
| Mercury (mg/kg) | 1.2 | 0.01 U | 0.0958 | 0.0417 | 0.011 | 10 |
| pH | 7.71 | 8.07 | 6.68 | 8.03 | NA | -- |

a Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes
Sample concentrations flagged with J+ are estimated detections above the laboratory control limits
Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
-- indicates no expsoure data available for compound
ft = feet
mg/kg = milligrams per kilogram
NA = Not Analyzed

# Table 3 - 7

## Soil Boring Samples
## TCLP Lead Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-104 | SB-108 | SB-108 | SB-118 | SB-118 | Screening Levels Residential | |
|---|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 | 0 - 3 | 7 - 11 | 0 - 3 | 0 - 3 (DUP) | | |
| Sample Date | 12/18/2002 | 12/18/2002 | 12/18/2002 | 12/19/2002 | 12/19/2002 | | |
| Chemical Name | | | | | | Haz. Waste Criteria[a] | Migration to Groundwater[b] |
| TCLP Lead (mg/L) | **0.0119** | **0.027** | 0.002 U | **1.8** | **6.05** | 5 | 0.0075 |

a Hazardous Waste Criteria for TCLP Lead listed in 40 CFR Part 266
b Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for the soil component of the migration to groundwater for Class I groundwater exposure route
Highlighted sample concentrations are higher than Hazardous waste criteria for TCLP lead listed in 40 CFR Part 266
Bold sample concentrations are higher than the Tier I Remediation Objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/L = milligrams per liter
TCLP = toxicity characteristic leaching procedure

# Table 3 - 8

## Surface Soil Samples
## Lead Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SS-101 | SS-102 | SS-103 | SS-104 | SS-105 | Screening Levels Residential | | |
|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | | | |
| Sample Date | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | | | |
| **Chemical Name** | | | | | | **Haz. Waste Criteria[a]** | **Ingestion/Inhalation[b]** | **Migration to Groundwater[c]** |
| Lead (mg/kg) | 88.1 | 290 | 138 | 823 | 715 | 400 | 400 | -- |
| TCLP Lead (mg/L) | NA | NA | NA | NA | NA | 5 | -- | 0.0075 |

| Field Sample ID | SS-106 | SS-107 | SS-108 | SS-108 (DUP) | SS-109 | Screening Levels Residential | | |
|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | | | |
| Sample Date | 12/19/2002 | 12/20/2002 | 12/20/2002 | 12/20/2002 | 12/20/2002 | | | |
| **Chemical Name** | | | | | | **Haz. Waste Criteria[a]** | **Ingestion/Inhalation[b]** | **Migration to Groundwater[c]** |
| Lead (mg/kg) | 470 | 14300 | 523 | 736 | 285 | 400 | 400 | -- |
| TCLP Lead (mg/L) | NA | ***32J*** | NA | NA | NA | 5 | -- | 0.0075 |

a Hazardous Waste criteria for TCLP Lead listed in 40 CFR Part 266

b Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes

c IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route

J indicates concentrations were estimated

Italicized sample concentrations are higher than the Hazardous waste criteria for TCLP lead listed in 40 CFR Part 266.

Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes

Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

ft = feet

NA = not analyzed

TCLP = toxicity characteristic leaching procedure

-- indicates that no exposure data available for compound

# Table 3 - 8

## Surface Soil Samples
## Lead Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SS-110 | SS-111 | SS-112 | SS-112 (DUP) | Screening Levels Residential | | |
|---|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | | | |
| Sample Date | 12/20/2002 | 12/20/2002 | 12/20/2002 | 12/20/2002 | | | |
| | | | | | Haz. Waste Criteria[a] | Ingestion/Inhalation[b] | Migration to Groundwater[c] |
| Lead (mg/kg) | 162 | 1560 | 330 | 538 | 400 | 400 | -- |
| TCLP Lead (mg/L) | NA | 1J | NA | NA | 5 | -- | 0.0075 |

| Field Sample ID | SS-113 | SS-114 | SS-115 | SS-116 | Screening Levels Residential | | |
|---|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | | | |
| Sample Date | 12/20/2002 | 12/19/2002 | 12/19/2002 | 12/19/2002 | | | |
| | | | | | Haz. Waste Criteria[a] | Ingestion/Inhalation[b] | Migration to Groundwater[c] |
| Lead (mg/kg) | 176 | 149 | 548 | 119 | 400 | 400 | -- |
| TCLP Lead (mg/L) | NA | NA | NA | NA | 5 | -- | 0.0075 |

[a] Hazardous Waste Criteria for TCLP Lead listed in 40 CFR Part 266

[b] Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes

[c] IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route

J indicates concentrations were estimated

Italicized sample concentrations are higher than the Hazardous waste criteria for TCLP lead listed in 40 CFR Part 266.

Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes

Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

ft = feet

NA = not analyzed

TCLP = toxicity characteristic leaching procedure

-- indicates that no exposure data available for compound

# Table 3 - 8

## Surface Soil Samples
## Lead Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SS-117 | SS-118 | SS-119 | SS-120 | Screening Levels Residential | | |
|---|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | 0 - 0.75 | | | |
| Sample Date | 12/19/2002 | 12/19/2002 | 12/19/2002 | 12/20/2002 | | | |
| | | | | | Haz. Waste Criteria[a] | Ingestion/Inhalation[b] | Migration to Groundwater[c] |
| Lead (mg/kg) | *478* | *9380* | *492* | 200 | 400 | 400 | -- |
| TCLP Lead (mg/L) | NA | ***6.9J*** | NA | NA | 5 | -- | 0.0075 |

| Field Sample ID | SS-121 | SS-122 | SS-123 | SS-124 | Screening Levels Residential | | |
|---|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 0.75 | 0 - 0.75 | 0 - 0.75 | 0 - 0.75 | | | |
| Sample Date | 12/20/2002 | 12/20/2002 | 12/20/2002 | 12/20/2002 | | | |
| | | | | | Haz. Waste Criteria[a] | Ingestion/Inhalation[b] | Migration to Groundwater[c] |
| Lead (mg/kg) | 192 | *443* | *730* | 286 | 400 | 400 | -- |
| TCLP Lead (mg/L) | NA | **0.21J** | NA | NA | 5 | -- | 0.0075 |

[a] Hazardous Waste Criteria for TCLP Lead listed in 40 CFR Part 266

[b] Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes

[c] IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route

J indicates concentrations were estimated

Italicized sample concentrations are higher than the Hazardous waste criteria for TCLP lead listed in 40 CFR Part 266

Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes

Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

ft = feet

NA = not analyzed

TCLP = toxicity characteristic leaching procedure

-- indicates that no exposure data available for compound

## Table 3 - 8

## Surface Soil Samples
## Lead Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SS-125 | SS-130 | Screening Levels Residential | | |
|---|---|---|---|---|---|
| Depth (ft) | 0 - 0.75 | 0 - 0.75 | | | |
| Sample Date | 12/20/2002 | 12/20/2002 | | | |
| | | | Haz. Waste Criteria[a] | Ingestion/Inhalation[b] | Migration to Groundwater[c] |
| Lead (mg/kg) | 418 | 645 | 400 | 400 | -- |
| TCLP Lead (mg/L) | NA | NA | 5 | -- | 0.0075 |

[a] Hazardous Waste Criteria for TCLP Lead listen in 40 CFR Part 266

[b] Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier I Remediation Objective for ingestion/inhalation exposure routes

[c] IEPA TACO Tier I Remediation Objective for soil component of the migration to groundwater for Class I groundwater exposure route

J indicates concentrations were estimated
Italicized sample concentrations are higher than theHazardous waste criteria for TCLP listed in 40 CFR Part 266
Highlighted sample concentrations are higher than the Tier I Remediation Objectives for the ingestion/inhalation exposure routes
Bold sample concentrations are higher than the Tier I remediation objectives for the soil component of the migration to groundwater for Class I groundwater exposure route
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
ft = feet
NA = not analyzed
TCLP = toxicity characteristic leaching procedure
-- indicates that no exposure data available for compound

# Table 3 - 9

## Soil Boring Samples
## RCRA Metals pH- Specific Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID<br>Depth (ft)<br>Sample Date | SB-101<br>0 - 3<br>12/18/2002 | pH-Specific<br>Migration to GW<br>Objective | SB-101<br>7 - 11<br>12/18/2002 | pH-Specific<br>Migration to GW<br>Objective | SB-102<br>0 - 3<br>12/18/2002 | SB-102<br>0 - 3 (DUP)<br>12/18/2002 | pH-Specific<br>Migration to GW<br>Objective | SB-102<br>7 - 11<br>12/18/2002 | pH-Specific<br>Migration to GW<br>Objective |
|---|---|---|---|---|---|---|---|---|---|
| **Chemical Name** | | | | | | | | | |
| Arsenic (mg/kg) | 0.51 UJ | 30 | 0 45 UJ | 32 | 0.47 UJ | 0 44 UJ | 29 | 0.50 UJ | 32 |
| Barium (mg/kg) | 37 0 | 1800 | 19 1 | -- | 43.5 | 54 3 | 1700 | 4 95 | -- |
| Cadmium (mg/kg) | 0.030 UJ | 59 | 0 027 UJ | -- | 0 027 UJ | 0 026 UJ | 11 | 0.029 UJ | -- |
| Chromium (mg/kg) | 7 74 J- | 32 | 10 4 J- | 24 | 8.26 J- | 8.46 J- | 36 | 2 76 J- | 24 |
| Lead (mg/kg) | 283 J+ | -- | 8.06 J+ | -- | 108 J+ | 127 J+ | -- | 2 81 J+ | -- |
| Selenium (mg/kg) | 0 38 UJ | 3.3 | 0 34 UJ | 2.4 | 0 35 UJ | 0.34 UJ | 4 5 | 0.38 UJ | 2.4 |
| Silver (mg/kg) | 0 030 UJ | 39 | 0.027 UJ | -- | 0.027 UJ | 0.026 UJ | 13 | 0 029 UJ | -- |
| Mercury (mg/kg) | 3 39 | 6.4 | 0 0098 U | -- | 1.82 | 0.726 | 3.3 | 0.0010 U | -- |
| pH | 7.69 | NA | 8.43 | NA | 7.24 | 7.24 | NA | 8 31 | NA |

| Field Sample ID<br>Depth (ft)<br>Sample Date | SB-103<br>0 - 3<br>12/18/2002 | pH-Specific<br>Migration to GW<br>Objective | SB-103<br>7 - 11<br>12/18/2002 | pH-Specific<br>Migration to GW<br>Objective | SB-105<br>0 - 3<br>12/18/2002 | SB-105<br>0 - 3 (DUP)<br>12/18/2002 | pH-Specific<br>Migration to GW<br>Objective |
|---|---|---|---|---|---|---|---|
| **Chemical Name** | | | | | | | |
| Arsenic (mg/kg) | 0.73 UJ | 31 | 0 50 UJ | 32 | 0 44 UJ | 0 47 UJ | 31 |
| Barium (mg/kg) | 88.1 | 2100 | 4 42 | -- | 93.8 | 69 8 | 2100 |
| Cadmium (mg/kg) | 0.026 UJ | 430 | 0 030 UJ | -- | 0 026 UJ | 0 027 UJ | 430 |
| Chromium (mg/kg) | 6.73 J- | 28 | 3 39 J- | 24 | 5.97 J- | 5 83 J- | 28 |
| Lead (mg/kg) | 213 J+ | -- | 3 91 J+ | -- | 101 J+ | 80.4 J+ | -- |
| Selenium (mg/kg) | 0.33 UJ | 2 4 | 0.38 UJ | 2 4 | 0.34 UJ | 0.35 UJ | 2.4 |
| Silver (mg/kg) | 0 026 UJ | 110 | 0.030 UJ | -- | 0 026 UJ | 0.027 UJ | 110 |
| Mercury (mg/kg) | 1 8 | 8 0 | 0.0099 U | -- | 0 0857 | 0 126 | 8 0 |
| pH | 8.05 | NA | 8 26 | NA | 8 15 | 8 15 | NA |

Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with J+ are estimated detections above the laboratory control limits
Sample concentrations flagged with J- are non-detected estimated estimates below the laboratory control limits
Bold sample concentrations are higher than the Illinois Environmental Protection Agency (IEPA)
pH specific Remediation Objectives for the soil component of the migration to groundwater for class I groundwater exposure route
(listed in 35 IAC Section 742 Appendix B Tier 1 Tables and Illustrations, Table C)
mg/kg = milligrams per kilogram
-- indicates that no data are available for pH range
ft = feet
NA = Not applicable

**Table 3 - 9**

**Soil Boring Samples**
**RCRA Metals pH- Specific Sampling Results**
**76th and Parnell Site, Chicago, Illinois**

| Field Sample ID | SB-105 | SB-105 | pH-Specific | SB-106 | pH-Specific | SB-106 | pH-Specific | SB-107 | pH-Specific |
|---|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 7 - 11 | 7 - 11 (DUP) | Migration to GW | 0 - 3 | Migration to GW | 7 - 11 | Migration to GW | 0 - 3 | Migration to GW |
| Sample Date | 12/18/2002 | 12/18/2002 | Objective | 12/18/2002 | Objective | 12/18/2002 | Objective | 12/18/2002 | Objective |
| **Chemical Name** | | | | | | | | | |
| Arsenic (mg/kg) | 0 55 UJ | 0.43 UJ | 31 | 0 43 UJ | 31 | 0.44 UJ | 31 | 0.47 UJ | 32 |
| Barium (mg/kg) | 3.91 | 4.24 | 2100 | 207 | 2100 | 4 63 | 2100 | 70 6 | -- |
| Cadmium (mg/kg) | 0 032 UJ | 0 025 UJ | 430 | 0.025 UJ | 430 | 0.027 UJ | 430 | 0.028 UJ | -- |
| Chromium (mg/kg) | 3 26 J- | 2 61 J- | 28 | 12 J- | 28 | 3 65 J- | 28 | 5.05 J- | 24 |
| Lead (mg/kg) | 4.13 J+ | 3 33 J+ | -- | 315 J+ | -- | 5 24 J+ | -- | 42.3 J+ | -- |
| Selenium (mg/kg) | 0.41 UJ | 0.33 UJ | 2 4 | 0.33 UJ | 2 4 | 0 34 UJ | 2 4 | 0 35 UJ | 2 4 |
| Silver (mg/kg) | 0.032 UJ | 0 025 UJ | 110 | 0 025 UJ | 110 | 0 0027 UJ | 110 | 0 028 UJ | -- |
| Mercury (mg/kg) | 0 01 U | 0.011 U | 8.0 | 0.019 J | 8.0 | 0 01 U | 8 0 | 0.0624 | -- |
| pH | 8 15 | 8.15 | NA | 8 17 | NA | 7.89 | NA | 8 27 | NA |

| Field Sample ID | SB-107 | pH-Specific | SB-109 | pH-Specific | SB-109 | pH-Specific | SB-110 | pH-Specific |
|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 7 - 11 | Migration to GW | 0 - 3 | Migration to GW | 7 - 11 | Migration to GW | 0 - 3 | Migration to GW |
| Sample Date | 12/18/2002 | Objective | 12/19/2002 | Objective | 12/19/2002 | Objective | 12/19/2002 | Objective |
| **Chemical Name** | | | | | | | | |
| Arsenic (mg/kg) | 0.50 UJ | 31 | 0.45 U | 31 | 0.52 U | 31 | 0 47 U | 31 |
| Barium (mg/kg) | 4.63 | 2100 | 4 39 | 2100 | 4.27 | 2100 | 371 | 2100 |
| Cadmium (mg/kg) | 0.030 UJ | 430 | 0 0026 U | 430 | 0 031 U | 430 | 0.028 U | 430 |
| Chromium (mg/kg) | 3.6 J- | 28 | 1 67 | 28 | 4 92 | 28 | 12.8 | 28 |
| Lead (mg/kg) | 5.25 J+ | -- | 10.2 S | -- | 5 23 J- | -- | 272 J- | -- |
| Selenium (mg/kg) | 0.39 UJ | 2.4 | 0.34 U | 2.4 | 0 4 U | 2.4 | 0 36 U | 2.4 |
| Silver (mg/kg) | 0.030 UJ | 110 | 0.026 SR | 110 | 0.031 UJ | 110 | 0 028 UJ | 110 |
| Mercury (mg/kg) | 0.01 U | 8 0 | 0 0084 U | 8 0 | 0.0099 U | 8 0 | 0.113 | 8.0 |
| pH | 8.16 | NA | 8.07 | NA | 8.07 | NA | 8.03 | NA |

Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with J+ are estimated detections above the laboratory control limits
Sample concentrations flagged with J- are non-detected estimated estimates below the laboratory control limits
Bold sample concentrations are higher than the Illinois Environmental Protection Agency (IEPA)
pH specific Remediation Objectives for the soil component of the migration to groundwater for class I groundwater exposure route
(listed in 35 IAC Section 742 Appendix B: Tier 1 Tables and Illustrations, Table C)
mg/kg = milligrams per kilogram
-- indicates that no data are available for pH range
ft = feet
NA = Not applicable

# Table 3 - 9

## Soil Boring Samples
## RCRA Metals pH- Specific Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-110 | pH-Specific | SB-111 | pH-Specific | SB-111 | pH-Specific | SB-112 | pH-Specific |
|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 7 -11 | Migration to GW | 0 - 3 | Migration to GW | 7 - 11 | Migration to GW | 0 - 3 | Migration to GW |
| Sample Date | 12/19/2002 | Objective | 12/19/2002 | Objective | 12/19/2002 | Objective | 12/19/2002 | Objective |
| | | | | | | | | |
| Arsenic (mg/kg) | 0 42 U | 32 | 0 46 U | 31 | 0.48 U | 31 | 0 34 U | 30 |
| Barium (mg/kg) | 25.7 | -- | 257 | 2100 | 4 53 | 2100 | 3.35 | 1800 |
| Cadmium (mg/kg) | 0 025 U | -- | 0 027 U | 430 | 0 028 U | 430 | 0 02 U | 59 |
| Chromium (mg/kg) | 12 2 | 24 | 27 1 | 28 | 4.29 | 28 | 2.72 | 32 |
| Lead (mg/kg) | 12.2 J- | -- | 401 J- | -- | 4.49 J- | -- | 1 96 J- | -- |
| Selenium (mg/kg) | 0.32 U | 2.4 | 0.35 U | 2 4 | 0 37 U | 2 4 | 0 26 U | 3 3 |
| Silver (mg/kg) | 0.025 UJ | -- | 0 027 UJ | 110 | 0 028 UJ | 110 | 0.02 UJ | 39 |
| Mercury (mg/kg) | 0.027 J | -- | 0 0828 | 8.0 | 0.0099 U | 8 0 | 0 268 | 6 4 |
| pH | 8.52 | NA | 8.15 | NA | 7.97 | NA | 7.68 | NA |

| Field Sample ID | SB-112 | pH-Specific | SB-113 | pH-Specific | SB-113 | pH-Specific | SB-114 | pH-Specific |
|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 7 - 11 | Migration to GW | 0 - 3 | Migration to GW | 7 - 11 | Migration to GW | 0 - 3 | Migration to GW |
| Sample Date | 12/19/2002 | Objective | 12/19/2002 | Objective | 12/19/2002 | Objective | 12/19/2002 | Objective |
| | | | | | | | | |
| Arsenic (mg/kg) | 0 48 U | 32 | 0 43 U | 29 | 0 57 U | 30 | 0.45 U | 33 |
| Barium (mg/kg) | 5.78 | -- | 7.35 | 1700 | 7.51 | 1800 | 46 9 | -- |
| Cadmium (mg/kg) | 0 028 U | -- | 0 025 U | 11 | 0.033 U | 59 | 0 023 U | -- |
| Chromium (mg/kg) | 3 72 | 24 | 3.3 | 36 | 4 24 | 32 | 6 5 | 21 |
| Lead (mg/kg) | 0 25 UJ | -- | 0.759 J- | -- | 0 76 J- | -- | 217 J- | -- |
| Selenium (mg/kg) | 0 36 U | 2.4 | 0 33 U | 4 5 | 0 43 U | 3.3 | 0.34 U | 1.3 |
| Silver (mg/kg) | 0 028 UJ | -- | 0 025 UJ | 13 | 0.033 UJ | 39 | 0.026 UJ | -- |
| Mercury (mg/kg) | 0 009 U | -- | 0 306 | 3 3 | 0.02 J | 6.4 | 0 109 | -- |
| pH | 8 52 | NA | 7 2 | NA | 7.52 | NA | 9 72 | NA |

Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with J+ are estimated detections above the laboratory control limits
Sample concentrations flagged with J- are non-detected estimated estimates below the laboratory control limits
Bold sample concentrations are higher than the Illinois Environmental Protection Agency (IEPA)
pH specific Remediation Objectives for the soil component of the migration to groundwater for class I groundwater exposure route
(listed in 35 IAC Section 742 Appendix B: Tier 1 Tables and Illustrations, Table C)
mg/kg = milligrams per kilogram
-- indicates that no data are available for pH range
ft = feet
NA = Not applicable

# Table 3 - 9

## Soil Boring Samples
## RCRA Metals pH- Specific Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-114 | pH-Specific | SB-115 | pH-Specific | SB-115 | pH-Specific | SB-116 | pH-Specific |
|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 7-11 | Migration to GW | 0 - 3 | Migration to GW | 7 - 11 | Migration to GW | 0 - 3 | Migration to GW |
| Sample Date | 12/19/2002 | Objective | 12/19/2002 | Objective | 12/19/2002 | Objective | 12/19/2002 | Objective |
| | | | | | | | | |
| Arsenic (mg/kg) | 0 48 U | 32 | 0 52 U | -- | 0 46 U | 32 | 0.54 U | 31 |
| Barium (mg/kg) | 5 36 | -- | 92 | -- | 6.3 | -- | 921 | 2100 |
| Cadmium (mg/kg) | 0 028 U | -- | 0 031 U | -- | 0 027 U | -- | 0.032 U | 430 |
| Chromium (mg/kg) | 4 39 | 24 | 13 7 | -- | 3.29 | 24 | 114 | 28 |
| Lead (mg/kg) | 5 78 J- | -- | 467 J- | -- | 4.87 J- | -- | 2870 J- | -- |
| Selenium (mg/kg) | 0 37 U | 2 4 | 0 4 U | -- | 0 35 U | 2 4 | 0.42 U | 2.4 |
| Silver (mg/kg) | 0 028 UJ | -- | 0.031 UJ | -- | 0 027 UJ | -- | 0.032 U | 110 |
| Mercury (mg/kg) | 0 019 J | -- | 0 215 | -- | 0.01 U | -- | 0 145 | 8 0 |
| pH | 8.32 | NA | 12.2 | NA | 8.72 | NA | 7.95 | NA |

| Field Sample ID | SB-116 | pH-Specific | SB-117 | pH-Specific | SB-117 | pH-Specific | SB-118 | pH-Specific |
|---|---|---|---|---|---|---|---|---|
| Depth (ft) | 7 - 11 | Migration to GW | 0 - 3 | Migration to GW | 7 - 11 | Migration to GW | 0 - 3 | Migration to GW |
| Sample Date | 12/19/2002 | Objective | 12/19/2002 | Objective | 12/19/2002 | Objective | 12/19/2002 | Objective |
| | | | | | | | | |
| Arsenic (mg/kg) | 0.52 U | 31 | 0 37 U | 31 | 0.46 U | 31 | 0.5 U | 32 |
| Barium (mg/kg) | 5.85 | 2100 | 5 99 | 2100 | 4.08 | 2100 | 233 | -- |
| Cadmium (mg/kg) | 0.031 U | 430 | 0.022 U | 430 | 0 028 U | 430 | 0.029 U | -- |
| Chromium (mg/kg) | 4.2 | 28 | 2.59 | 28 | 3 37 | 28 | 61 | 24 |
| Lead (mg/kg) | 15 4 J- | -- | 7.1 J- | -- | 2.16 J- | -- | 901 J- | -- |
| Selenium (mg/kg) | 0.4 U | 2 4 | 0.28 U | 2 4 | 0.35 U | 2 4 | 0.38 U | 2.4 |
| Silver (mg/kg) | 0.031 UJ | 110 | 0 022 UJ | 110 | 0.028 UJ | 110 | 0.029 UJ | -- |
| Mercury (mg/kg) | 0.0348 | 8 0 | 0 0083 U | 8.0 | 0.01 U | 8.0 | 0.0847 | -- |
| pH | 8 14 | NA | 7.89 | NA | 8.2 | NA | 8.48 | NA |

Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with J+ are estimated detections above the laboratory control limits
Sample concentrations flagged with J- are non-detected estimated estimates below the laboratory control limits
Bold sample concentrations are higher than the Illinois Environmental Protection Agency (IEPA)
pH specific Remediation Objectives for the soil component of the migration to groundwater for class I groundwater exposure route
(listed in 35 IAC Section 742 Appendix B: Tier 1 Tables and Illustrations, Table C)
mg/kg = milligrams per kilogram
-- indicates that no data are available for pH range
ft = feet
NA = Not applicable

**Table 3 - 9**

**Soil Boring Samples**
**RCRA Metals pH- Specific Sampling Results**
**76th and Parnell Site, Chicago, Illinois**

| **Field Sample ID** | **SB-118** | **pH-Specific** |
|---|---|---|
| **Depth (ft)** | **7 - 11** | **Migration to GW** |
| **Sample Date** | **12/19/2002** | **Objective** |
| | | |
| Arsenic (mg/kg) | 0.53 U | 31 |
| Barium (mg/kg) | 4 09 | 2100 |
| Cadmium (mg/kg) | 0.031 U | 430 |
| Chromium (mg/kg) | 4.73 | 28 |
| Lead (mg/kg) | 9 44 J- | NA |
| Selenium (mg/kg) | 0.4 U | 2 4 |
| Silver (mg/kg) | 0.031 UJ | 110 |
| Mercury (mg/kg) | 0 024 J | 8.0 |
| pH | 8 05 | NA |

Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with J+ are estimated detections above the laboratory control limits
Sample concentrations flagged with J- are non-detected estimated estimates below the laboratory control limits
Bold sample concentrations are higher than the Illinois Environmental Protection Agency (IEPA)
pH specific Remediation Objectives for the soil component of the migration to groundwater for class I groundwater exposure route
(listed in 35 IAC Section 742 Appendix B: Tier 1 Tables and Illustrations, Table C)
mg/kg = milligrams per kilogram
-- indicates that no data are available for pH range
ft = feet
NA = Not applicable

# Table 3 - 10

## Soil Boring Samples
## TAL Metals pH-Specific Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-104 | pH-Specific | SB-104 | pH-Specific | SB-108 | pH-Specific |
|---|---|---|---|---|---|---|
| Depth (ft) | 0 - 3 | Migration to GW | 7 - 11 | Migration to GW | 0 - 3 | Migration to GW |
| Sample Date | 12/18/2002 | Objective | 12/18/2002 | Objective | 12/18/2002 | Objective |
| Chemical Name | | | | | | |
| Aluminum (mg/kg) | 6190 J+ | -- | 1620 J+ | -- | 5930 J+ | -- |
| Antimony (mg/kg) | 0.23 U | 5 | 0.29 U | 5 | 0.27 U | 5 |
| Arsenic (mg/kg) | 0.39 U | 30 | 0.49 U | 31 | 0.46 U | 29 |
| Barium (mg/kg) | 18.8 | 1800 | 5.35 | 2100 | 73 | 1600 |
| Beryllium (mg/kg) | 0.12 U | 1000 | 0.14 U | 8000 | 0.38 J | 63 |
| Cadmium (mg/kg) | 0.023 U | 59 | 0.029 U | 430 | 0.027 U | 7.5 |
| Calcium (mg/kg) | 83300 J+ | -- | 72500 J+ | -- | 21500 J+ | -- |
| Chromium (mg/kg) | 4.33 | 32 | 2.87 | 28 | 8.42 | 38 |
| Cobalt (mg/kg) | 2.27 | -- | 1.89 | -- | 0.798 | -- |
| Copper (mg/kg) | 64.1 | 330000 | 4.38 | 330000 | 286 | 130000 |
| Iron (mg/kg) | 15700 | -- | 4860 | -- | 6610 | -- |
| Lead (mg/kg) | 44 | -- | 3.27 | -- | 319 | -- |
| Magnesium (mg/kg) | 37500 | -- | 32300 | -- | 34000 | -- |
| Manganese (mg/kg) | 99.4 | -- | 171 | -- | 108 | -- |
| Nickel (mg/kg) | 6.52 | 700 | 3.33 | 3800 | 5.83 | 130 |
| Potassium (mg/kg) | 570 | -- | 314 | -- | 572 | -- |
| Selenium (mg/kg) | 0.30 U | 3.3 | 0.38 U | 2.4 | 0.36 U | 5.2 |
| Silver (mg/kg) | 0.023 U | 39 | 0.029 U | 110 | 0.36 U | 8.5 |
| Sodium (mg/kg) | 1060 J+ | -- | 865 J | -- | 1070 J+ | -- |
| Thallium (mg/kg) | 0.25 U | 3.0 | 0.31 U | 3.8 | 2 | 3.0 |
| Vanadium (mg/kg) | 5.23 | 980 | 2.87 | 980 | 6.83 | 980 |
| Zinc (mg/kg) | 69.6 | 16000 | 11.1 | 53000 | 129 | 7500 |
| Cyanide (mg/kg) | 0.32 | 40 | 0.13 U | 40 | 0.93 | 40 |
| Mercury (mg/kg) | 1.2 | 6.4 | 0.01 U | 8.0 | 0.0958 | 2.1 |
| pH | 7.71 | NA | 8.07 | NA | 6.68 | NA |

Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with J+ are estimated detections above the laboratory control limits
Sample concentrations flagged with J- are non-detected estimated estimates below the laboratory control limits
Bold sample concentrations are higher than the Illinois Environmental Protection Agency (IEPA)
pH specific Remediation Objectives for the soil component of the migration to groundwater for class I groundwater exposure route
(listed in 35 IAC Section 742 Appendix B: Tier 1 Tables and Illustrations, Table C)
mg/kg = milligrams per kilogram
-- indicates that no data are available for pH range
ft = feet
NA = Not applicable

# Table 3 - 10

## Soil Boring Samples
## TAL Metals pH-Specific Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID<br>Depth (ft)<br>Sample Date | SB-108<br>7 - 11<br>12/18/2002 | SB-108<br>7 - 11 (DUP)<br>12/18/2002 | pH-Specific<br>Migration to GW<br>Objective |
|---|---|---|---|
| **Chemical Name** | | | |
| Aluminum (mg/kg) | 5850 J+ | 2640 J+ | -- |
| Antimony (mg/kg) | 0.25 U | 0.31 U | 5 |
| Arsenic (mg/kg) | 0.43 U | 0.54 U | 31 |
| Barium (mg/kg) | 4.82 | 9.22 | 2100 |
| Beryllium (mg/kg) | 0.12 U | 0.15 U | 8000 |
| Cadmium (mg/kg) | 0.025 U | 0.031 U | 430 |
| Calcium (mg/kg) | 69600 J+ | 63000 J+ | -- |
| Chromium (mg/kg) | 3.32 | 4.67 | 28 |
| Cobalt (mg/kg) | 3.13 | 4.81 | -- |
| Copper (mg/kg) | 4.12 | 8.96 | 330000 |
| Iron (mg/kg) | 42100 | 8870 | -- |
| Lead (mg/kg) | 4.32 | 7.25 | -- |
| Magnesium (mg/kg) | 3690 | 21100 | -- |
| Manganese (mg/kg) | 176 | 175 | -- |
| Nickel (mg/kg) | 4.63 | 7.82 | 3800 |
| Potassium (mg/kg) | 422 | 619 | -- |
| Selenium (mg/kg) | 0.32 U | 0.4 U | 2.4 |
| Silver (mg/kg) | 0.025 U | 0.0031 U | 110 |
| Sodium (mg/kg) | 633 J+ | 1060 J+ | -- |
| Thallium (mg/kg) | 0.27 U | 0.34 U | 3.8 |
| Vanadium (mg/kg) | 3.18 | 5.83 | 980 |
| Zinc (mg/kg) | 6.96 | 18.2 | 53000 |
| Cyanide (mg/kg) | 0.13 U | 0.13 U | 40 |
| Mercury (mg/kg) | 0.0417 | 0.011 | 8.0 |
| pH | 8.03 | 8.03 | NA |

Sample concentrations flagged with U were below method detection limits
Sample concentrations flagged with J are estimated
Sample concentrations flagged with J+ are estimated detections above the laboratory control limits
Sample concentrations flagged with J- are non-detected estimated estimates below the laboratory control limits
Bold sample concentrations are higher than the Illinois Environmental Protection Agency (IEPA)
pH specific Remediation Objectives for the soil component of the migration to groundwater for class I groundwater exposure route
(listed in 35 IAC Section 742 Appendix B: Tier 1 Tables and Illustrations, Table C)
mg/kg = milligrams per kilogram
-- indicates that no data are available for pH range
ft = feet
NA - Not applicable

# Table 4 - 1
## Soil Boring Samples
## Grain Size Analysis Results
## 76th and Parnell Site, Chicago, Illinois

| Field Sample ID | SB-109 | | SB-109 | |
|---|---|---|---|---|
| Depth (ft) | 0 - 3 | | 7 - 11 | |
| Sample Date | 12/19/2002 | | 12/19/2002 | |
| Sieve # | Percent Finer | Grain Size (μm) | Percent Finer | Grain Size (μm) |
| 003 | 100 | 75000 | 100 | 75000 |
| 004 | 100 | 4750 | 100 | 4750 |
| 010 | 100 | 2000 | 100 | 2000 |
| 040 | 43 | 420 | 100 | 420 |
| 200 | 30.5 | 75 | 22 | 75 |

ft = feet
mm = micro meters

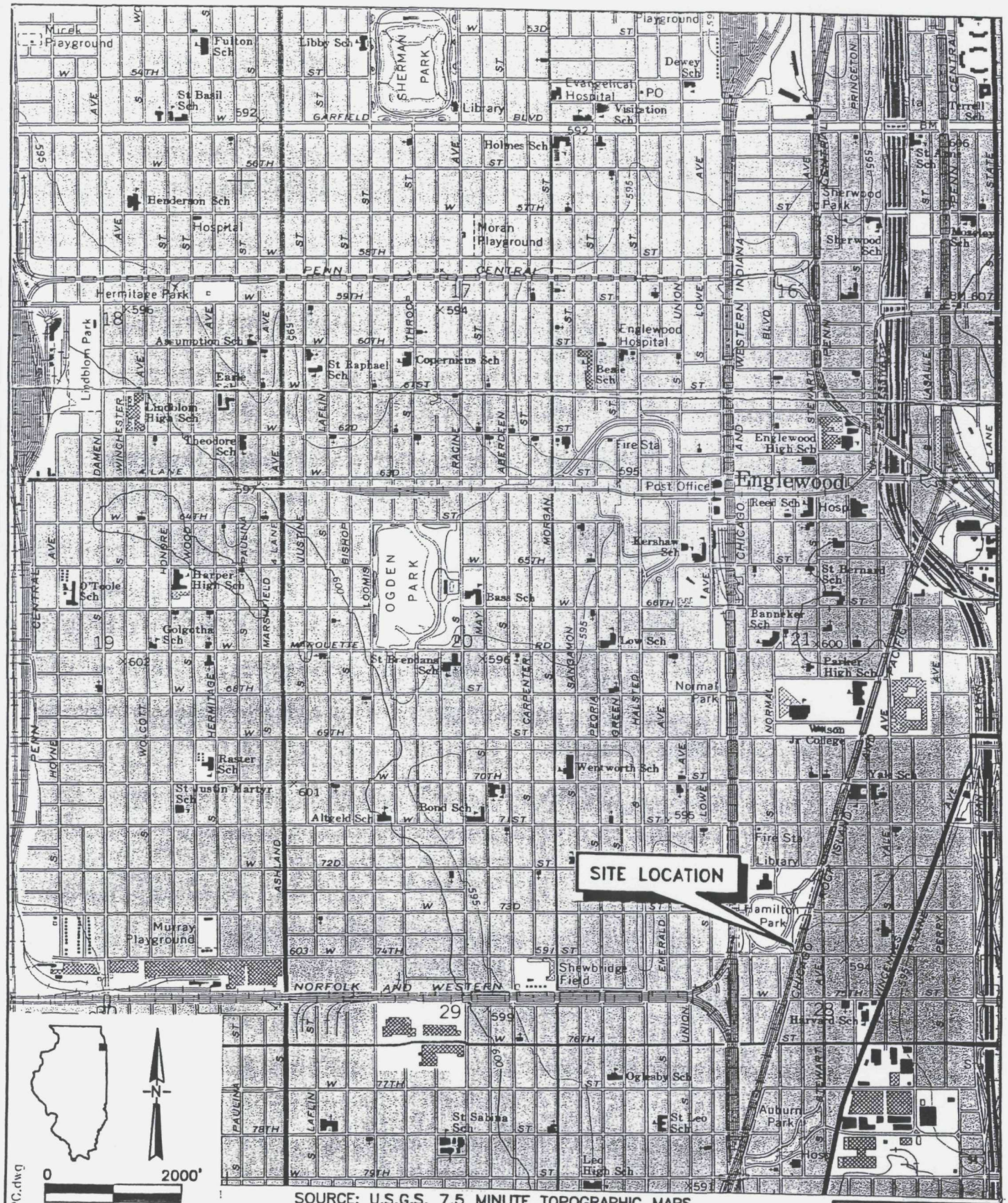
# Table 4 - 2

## Soil Boring Samples
## TOC Sampling Results
## 76th and Parnell Site, Chicago, Illinois

| **Field Sample ID** | SB-110 | SB-110 |
|---|---|---|
| **Depth (ft)** | 0 - 3 | 7 - 11 |
| **Sample Date** | 12/19/2002 | 12/19/2002 |
| Total Organic Carbon (mg/kg) | 737 | 418 |

mg/kg = milligrams per kilogram
ft = feet

# FIGURES




SOURCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC MAPS.
ENGLEWOOD, ILLINOIS QUADRANGLE.

FIGURE 1-1

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
U.S. EPA CONTRACT No. 68-W-00-119
WORK ASSIGNMENT No. 0208-003
DOCUMENT CONTROL No. RFW293-2A-ACUF

SITE LOCATION MAP
76th AND PARNELL SITE
Chicago, Illinois

J:\CAD93\SYM\TOPO.dwg

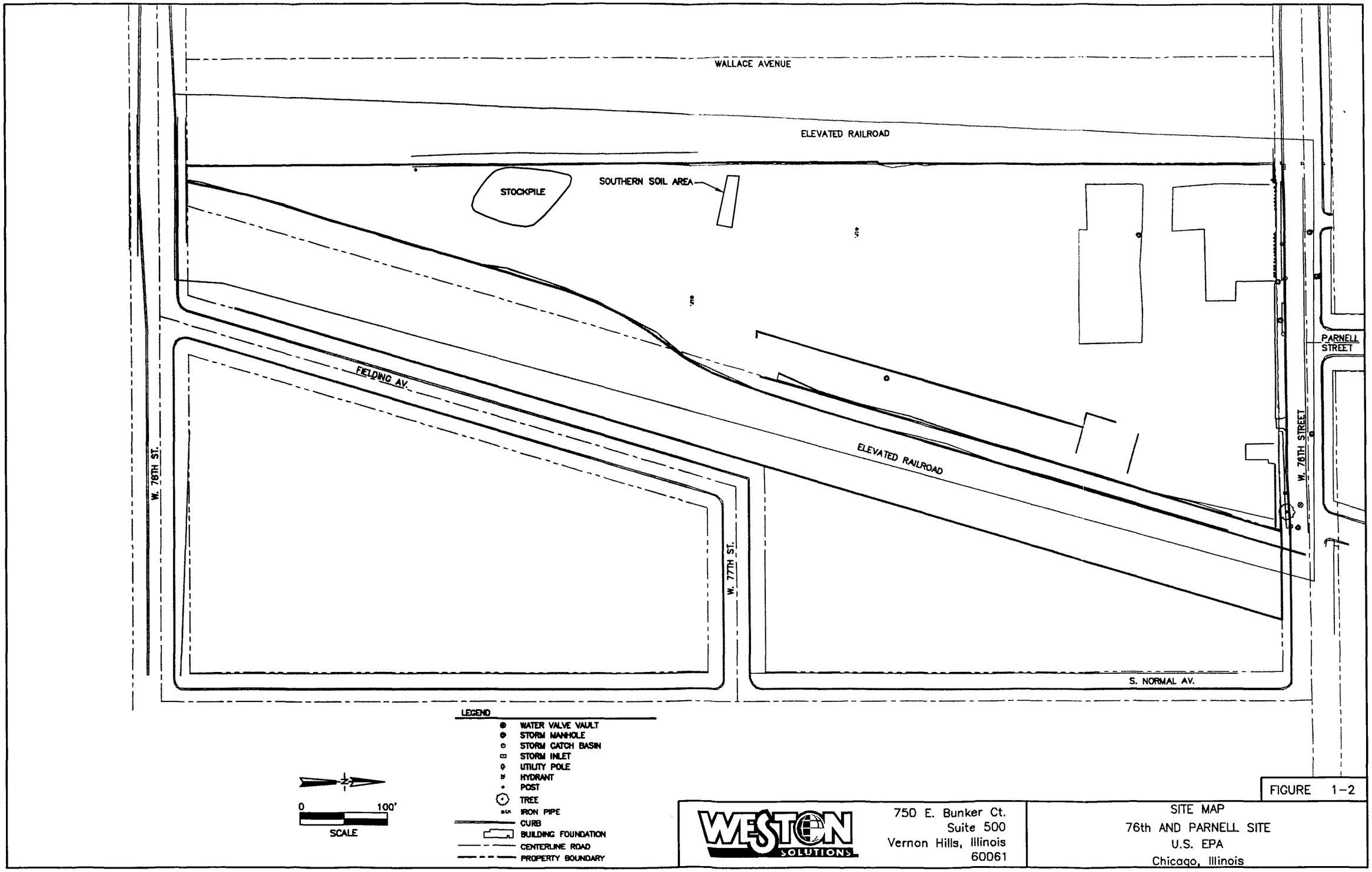



FIGURE 1-2

SITE MAP
76th AND PARNELL SITE
U.S. EPA
Chicago, Illinois

J:\CAD93\000\00403.dwg

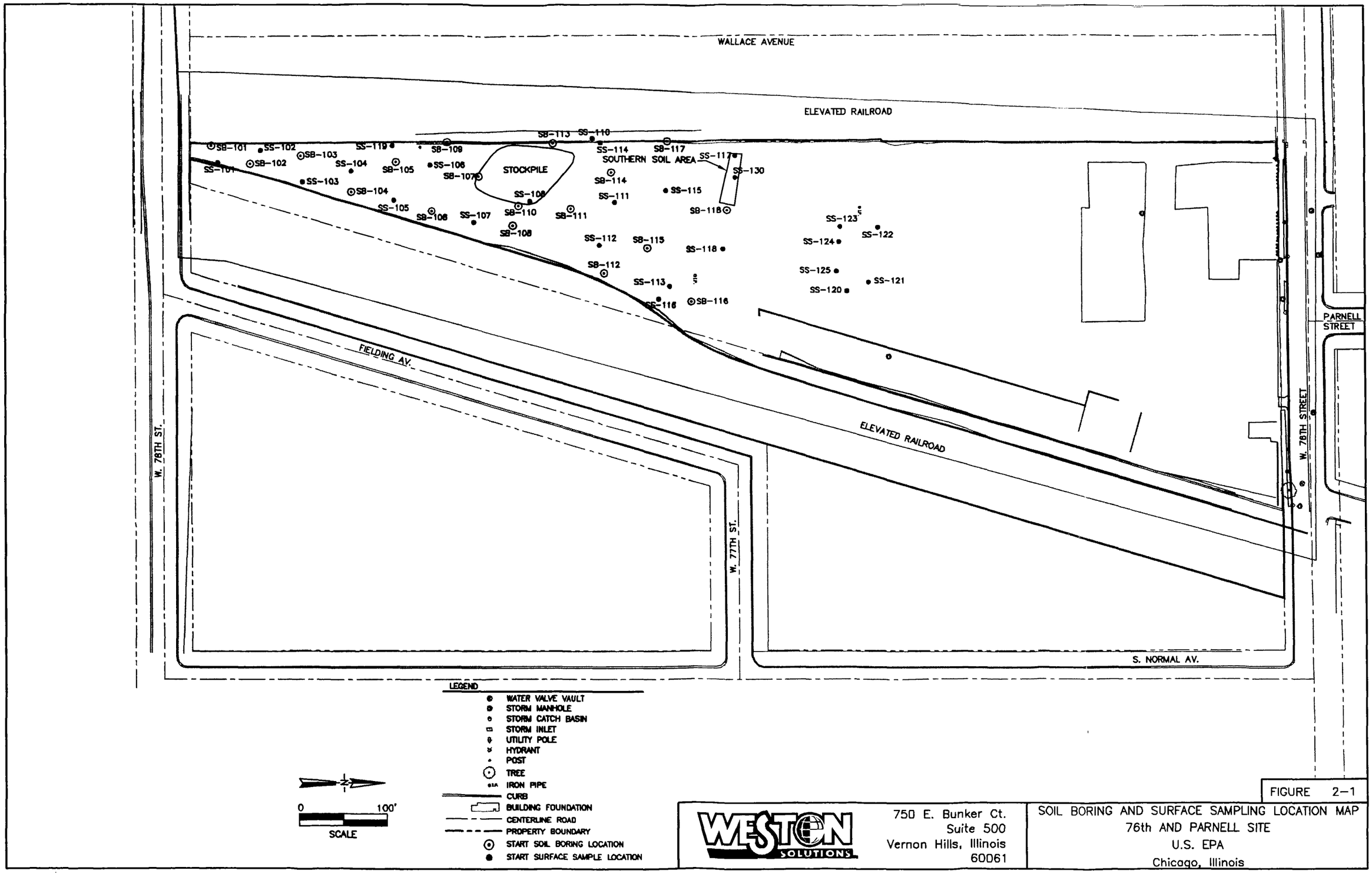



FIGURE 2-1

WESTON SOLUTIONS

750 E. Bunker Ct.
Suite 500
Vernon Hills, Illinois
60061

SOIL BORING AND SURFACE SAMPLING LOCATION MAP
76th AND PARNELL SITE
U.S. EPA
Chicago, Illinois

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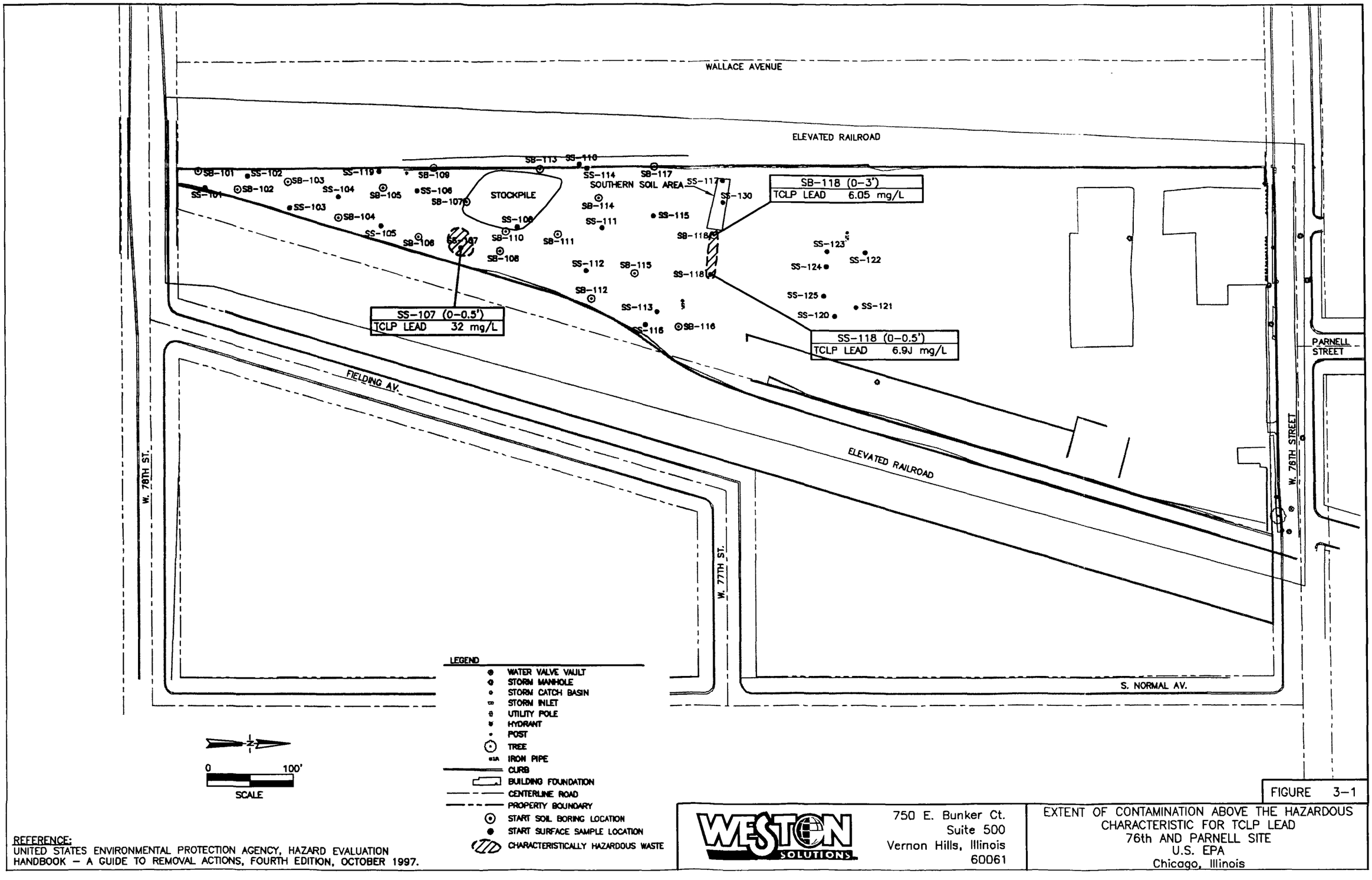


REFERENCE:
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, HAZARD EVALUATION HANDBOOK – A GUIDE TO REMOVAL ACTIONS, FOURTH EDITION, OCTOBER 1997.

WESTON SOLUTIONS

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FIGURE 3-1

EXTENT OF CONTAMINATION ABOVE THE HAZARDOUS CHARACTERISTIC FOR TCLP LEAD
76th AND PARNELL SITE
U.S. EPA
Chicago, Illinois

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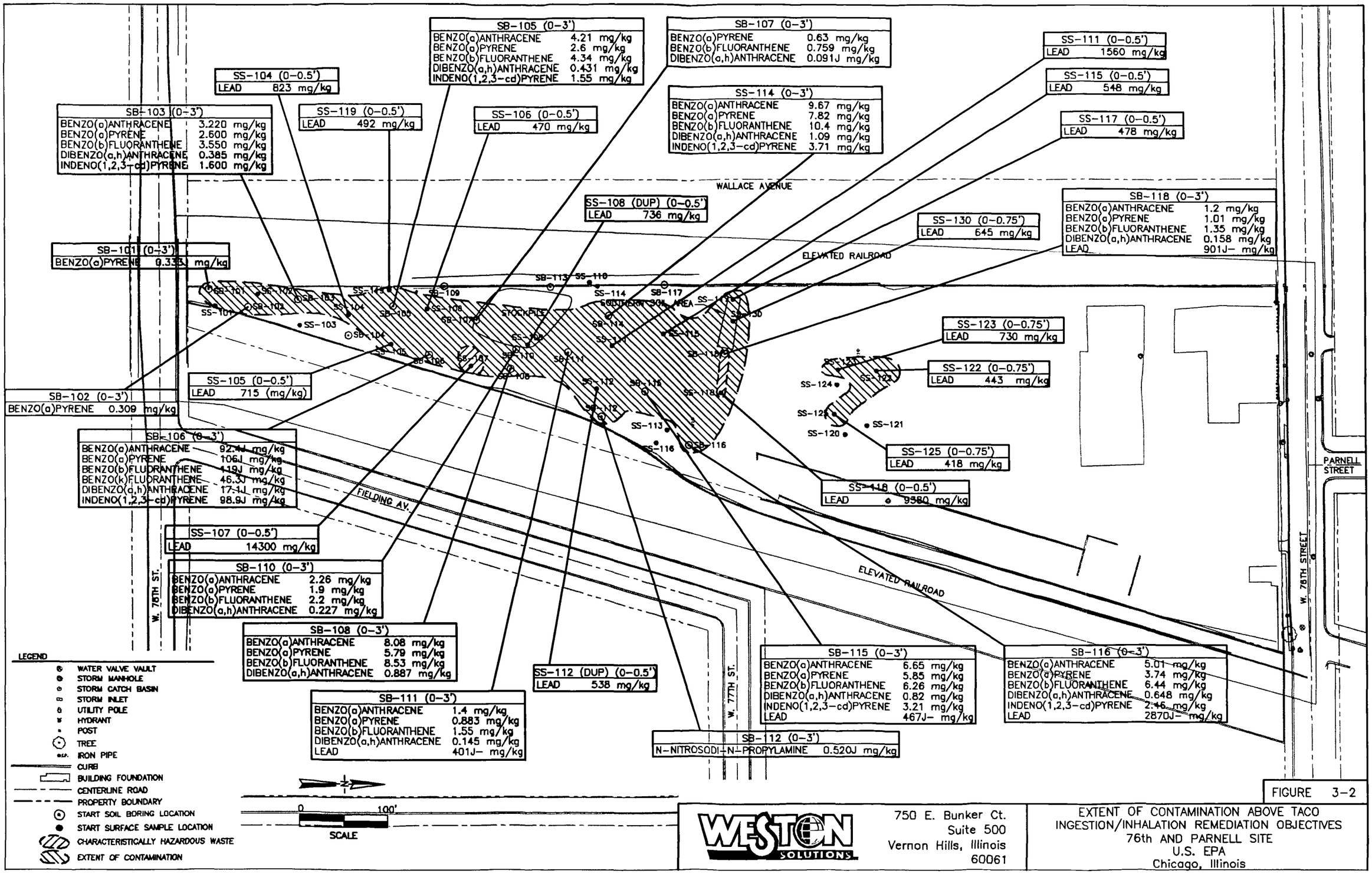
SB-105 (0-3')
BENZO(a)ANTHRACENE 4.21 mg/kg
BENZO(a)PYRENE 2.6 mg/kg
BENZO(b)FLUORANTHENE 4.34 mg/kg
DIBENZO(a,h)ANTHRACENE 0.431 mg/kg
INDENO(1,2,3-cd)PYRENE 1.55 mg/kg
SB-107 (0-3')
BENZO(a)PYRENE 0.63 mg/kg
BENZO(b)FLUORANTHENE 0.759 mg/kg
DIBENZO(a,h)ANTHRACENE 0.091J mg/kg
SS-111 (0-0.5')
LEAD 1560 mg/kg
SS-104 (0-0.5')
LEAD 823 mg/kg
SS-115 (0-0.5')
LEAD 548 mg/kg
SB-103 (0-3')
BENZO(a)ANTHRACENE 3.220 mg/kg
BENZO(a)PYRENE 2.600 mg/kg
BENZO(b)FLUORANTHENE 3.550 mg/kg
DIBENZO(a,h)ANTHRACENE 0.385 mg/kg
INDENO(1,2,3-cd)PYRENE 1.600 mg/kg
SS-119 (0-0.5')
LEAD 492 mg/kg
SS-106 (0-0.5')
LEAD 470 mg/kg
SS-114 (0-3')
BENZO(a)ANTHRACENE 9.67 mg/kg
BENZO(a)PYRENE 7.82 mg/kg
BENZO(b)FLUORANTHENE 10.4 mg/kg
DIBENZO(a,h)ANTHRACENE 1.09 mg/kg
INDENO(1,2,3-cd)PYRENE 3.71 mg/kg
SS-117 (0-0.5')
LEAD 478 mg/kg
WALLACE AVENUE
SS-108 (DUP) (0-0.5')
LEAD 736 mg/kg
SB-118 (0-3')
BENZO(a)ANTHRACENE 1.2 mg/kg
BENZO(a)PYRENE 1.01 mg/kg
BENZO(b)FLUORANTHENE 1.35 mg/kg
DIBENZO(a,h)ANTHRACENE 0.158 mg/kg
LEAD 901J- mg/kg
SS-130 (0-0.75')
LEAD 645 mg/kg
ELEVATED RAILROAD
SB-101 (0-3')
BENZO(a)PYRENE 0.333 mg/kg
SB-101 SS-101 SS-102 SB-103 SS-103 SB-102 SS-104 SB-104 SS-105 SB-105 SS-106 SB-106 SS-107 SB-107 SS-108 SB-108 SS-109 SB-109 SS-110 SB-110 SB-113 SS-113 SS-114 SB-114 SS-111 SB-111 SS-112 SB-112 SB-115 SS-115 SB-116 SS-116 SB-117 SS-117 SS-118 SB-118 SS-130 SB-130 SS-119 SB-119 SS-120 SB-120 SS-121 SS-122 SS-123 SS-124 SS-125
STOCKPILE
SOUTHERN SOIL AREA
SS-123 (0-0.75')
LEAD 730 mg/kg
SS-122 (0-0.75')
LEAD 443 mg/kg
SS-105 (0-0.5')
LEAD 715 (mg/kg)
SB-102 (0-3')
BENZO(a)PYRENE 0.309 mg/kg
SS-125 (0-0.75')
LEAD 418 mg/kg
PARNELL STREET
SB-106 (0-3')
BENZO(a)ANTHRACENE 92.4J mg/kg
BENZO(a)PYRENE 106J mg/kg
BENZO(b)FLUORANTHENE 119J mg/kg
BENZO(k)FLUORANTHENE 46.3J mg/kg
DIBENZO(a,h)ANTHRACENE 17.1J mg/kg
INDENO(1,2,3-cd)PYRENE 98.9J mg/kg
FIELDING AV.
SS-118 (0-0.5')
LEAD 9580 mg/kg
SS-107 (0-0.5')
LEAD 14300 mg/kg
W. 76TH ST.
SB-110 (0-3')
BENZO(a)ANTHRACENE 2.26 mg/kg
BENZO(a)PYRENE 1.9 mg/kg
BENZO(b)FLUORANTHENE 2.2 mg/kg
DIBENZO(a,h)ANTHRACENE 0.227 mg/kg
ELEVATED RAILROAD
SB-108 (0-3')
BENZO(a)ANTHRACENE 8.08 mg/kg
BENZO(a)PYRENE 5.79 mg/kg
BENZO(b)FLUORANTHENE 8.53 mg/kg
DIBENZO(a,h)ANTHRACENE 0.887 mg/kg
SS-112 (DUP) (0-0.5')
LEAD 538 mg/kg
SB-115 (0-3')
BENZO(a)ANTHRACENE 6.65 mg/kg
BENZO(a)PYRENE 5.85 mg/kg
BENZO(b)FLUORANTHENE 6.26 mg/kg
DIBENZO(a,h)ANTHRACENE 0.82 mg/kg
INDENO(1,2,3-cd)PYRENE 3.21 mg/kg
LEAD 467J- mg/kg
SB-116 (0-3')
BENZO(a)ANTHRACENE 5.01 mg/kg
BENZO(a)PYRENE 3.74 mg/kg
BENZO(b)FLUORANTHENE 6.44 mg/kg
DIBENZO(a,h)ANTHRACENE 0.648 mg/kg
INDENO(1,2,3-cd)PYRENE 2.46 mg/kg
LEAD 2870J- mg/kg
SB-111 (0-3')
BENZO(a)ANTHRACENE 1.4 mg/kg
BENZO(a)PYRENE 0.883 mg/kg
BENZO(b)FLUORANTHENE 1.55 mg/kg
DIBENZO(a,h)ANTHRACENE 0.145 mg/kg
LEAD 401J- mg/kg
W. 77TH ST.
SB-112 (0-3')
N-NITROSODI-N-PROPYLAMINE 0.520J mg/kg
W. 78TH STREET
LEGEND
WATER VALVE VAULT
STORM MANHOLE
STORM CATCH BASIN
STORM INLET
UTILITY POLE
HYDRANT
POST
TREE
IRON PIPE
CURB
BUILDING FOUNDATION
CENTERLINE ROAD
PROPERTY BOUNDARY
START SOIL BORING LOCATION
START SURFACE SAMPLE LOCATION
CHARACTERISTICALLY HAZARDOUS WASTE
EXTENT OF CONTAMINATION
0 100'
SCALE
WESTON SOLUTIONS
750 E. Bunker Ct.
Suite 500
Vernon Hills, Illinois
60061
EXTENT OF CONTAMINATION ABOVE TACO
INGESTION/INHALATION REMEDIATION OBJECTIVES
76th AND PARNELL SITE
U.S. EPA
Chicago, Illinois
J:\CAD93\000\00403.dwg

FIGURE 3-2

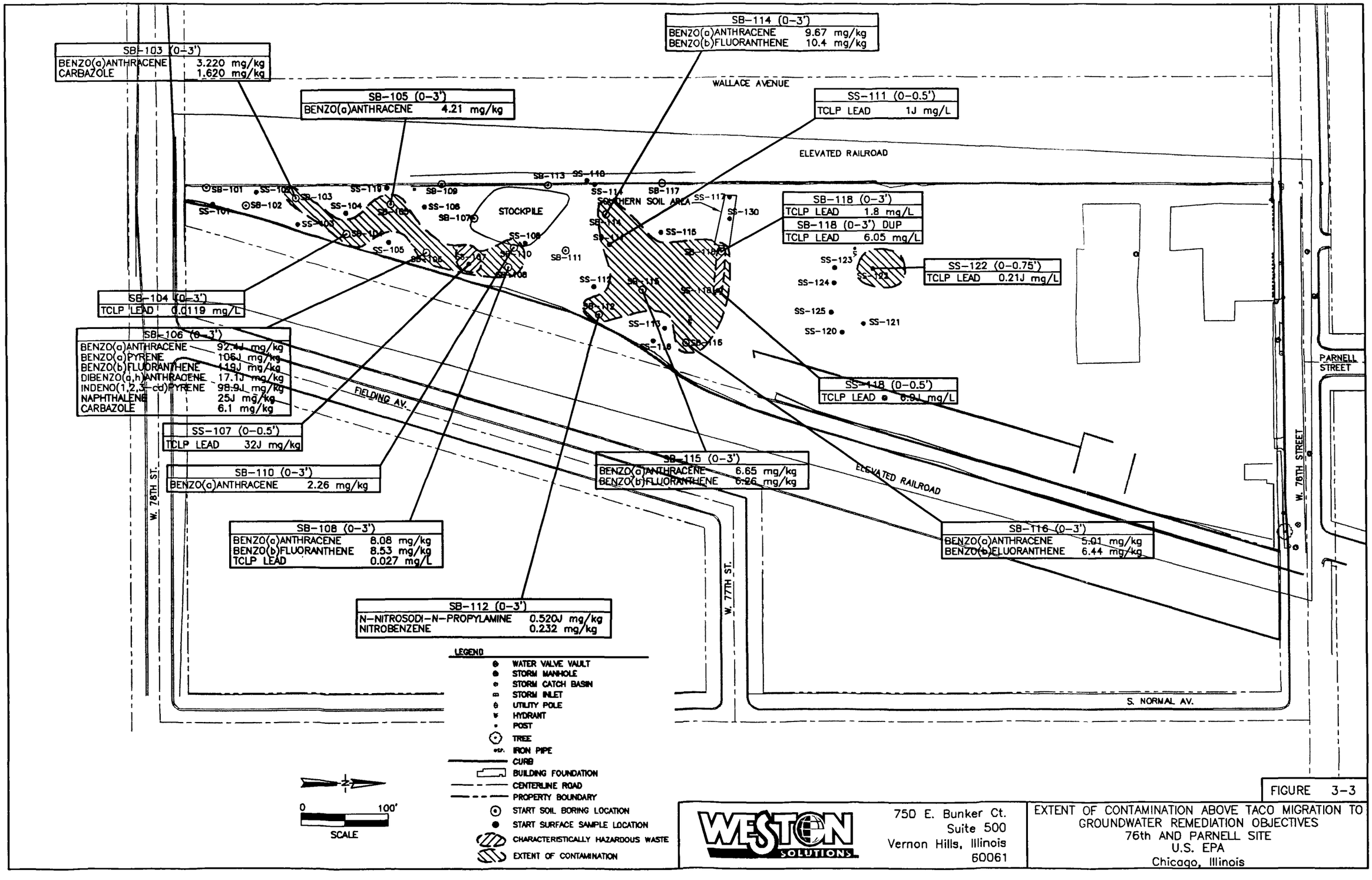


FIGURE 3-3

WESTON SOLUTIONS

750 E. Bunker Ct.
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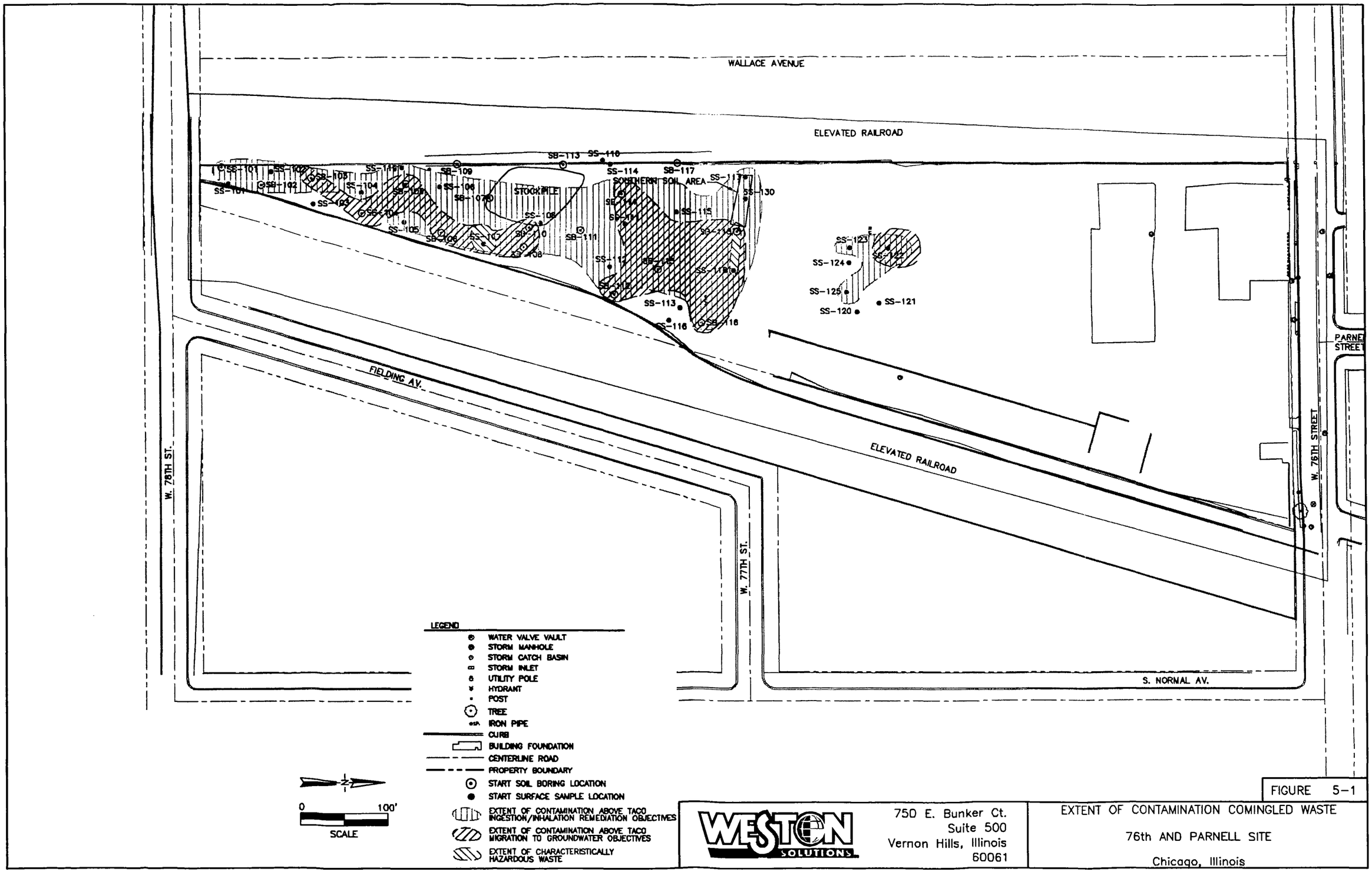
60061

EXTENT OF CONTAMINATION ABOVE TACO MIGRATION TO GROUNDWATER REMEDIATION OBJECTIVES
76th AND PARNELL SITE
U.S. EPA
Chicago, Illinois

J:\CAD93\000\00403.dwg

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# APPENDIX A

# SOIL BORING LOGS

WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-101

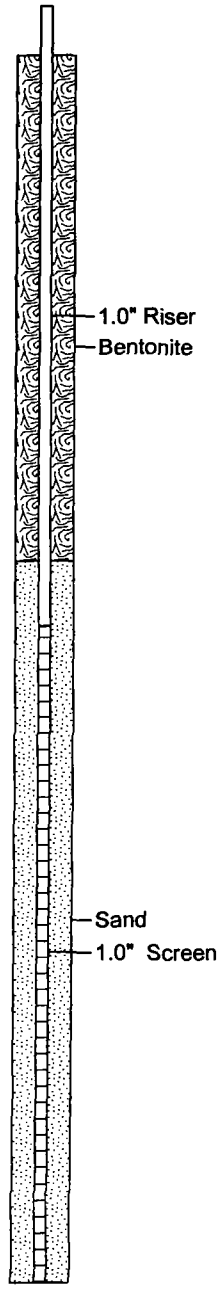


START
SB-101
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 18 December 2002 | Well Diameter | : 1.0" |
| Drilling Company | : Mid-America Drilling | Total Depth | : 19' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Sample Time | Sample |
|---|---|---|---|---|---|---|---|
| 0–5 | 3 | | AR | FILL; Black sand and grey FILL, some brick fragments, and coarse grained gravel, moist. | 2.2 | 1205 | X |
| | 4 | | | FILL; Black silty sand and gravel FILL, slight moist. | 2.0 | | |
| 5–11 | 4 | | SP | SAND; Brown medium grained SAND. | 1.3 | 1210 | X |
| | | | | SAND; Brown medium grained SAND, saturated. | | | |
| 11–17 | 4 | | CL | CLAY; Brown sandy clay, wet. | 1.6 | | |
| | | | | CLAY; Grey CLAY, firm, moist. | | | |
| 17–18 | 4 | | SP | SAND; Brown medium grained SAND. | 1.3 | | |
| 18–19 | | | CL | CLAY; Grey CLAY, firm. | | | |
| 19–20 | | | | End of boring @ 19'. | | | |

Well: SB-101
TOC Elev.: NA



WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-102



START
SB-102
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 18 December 2002 | Well Diameter | : N/A |
| Drilling Company | : Mid-America Drilling | Total Depth | : 11' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0 | | | | FILL; Black clayey, sandy FILL, with glass fragments, moist. | | | |
| 1 | 3 | | | | 1.0 | 1332 | |
| 2 | | | GP | | | | |
| 3 | | | | | | | |
| 4 | | | | FILL; Brown sandy FILL. | | | |
| 5 | 4 | | | SAND; Brown and black clayey SAND. | 1.0 | | |
| 6 | | | | SAND; Brown SAND, medium grained, moist. | | | |
| 7 | | | | | | | |
| 8 | | | SP | | | | |
| 9 | 4 | | | | 1.0 | 1337 | |
| 10 | | | | | | | |
| | | | | SAND; Tan and brown SAND, medium grained, saturated. | | | |
| 11 | | | | End of boring @ 11'. | | | |
| 12 | | | | | | | |

WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-103



START
SB-103
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 18 December 2002 | Well Diameter | : N/A |
| Drilling Company | : Mid-America Drilling | Total Depth | : 11' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0 | | | | FILL; Brown FILL, moist. | | | |
| 1 | 3 | | AR | FILL; Silty and sandy FILL, with brick fragments. | 0.9 | 1342 | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | 4 | | | | 0.9 | | |
| 6 | | | CL | CLAY; Brown CLAY, firm. | | | |
| 7 | | | | | | | |
| 8 | | | | SAND; Brown and tan SAND. | | | |
| 9 | 4 | | SP | | 0.9 | 1346 | |
| 10 | | | | SAND; Brown and tan SAND, saturated. | | | |
| 11 | | | | End of boring @ 11'. | | | |
| 12 | | | | | | | |

WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-104



START
SB-104
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 18 December 2002 | Well Diameter | : N/A |
| *Drilling Company* | : *Mid-America Drilling* | Total Depth | : 11' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0–4 | 3 | | AR | FILL; Black sand FILL, dry, with brick fragments, slight moist. | 0.9 | 1408 | |
| 4–5 | 4 | | SP | SAND; Tan SAND, fine to medium grained, clean. | 0.7 | | |
| 5–6 | | | GP | FILL; Black clayey FILL. | | | |
| 6–11 | 4 | | SP | SAND; Tan SAND, moist. / SAND; Tan SAND, saturated. | 0.7 | 1415 | |

End of boring @ 11'.

WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-105



EPA - START
SB-105
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 18 December 2002 | Well Diameter | : N/A |
| Drilling Company | : Mid-America Drilling | Total Depth | : 11' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0–4 | 3 | | AR | FILL; Sand and silt FILL, with brick fragments, dry. | – | 1430 | |
| 4–6 | 4 | | CL | CLAY; Black sandy CLAY, some fill. | – | | |
| 6–10 | 4 | | SP | SAND; Tan SAND, moist.<br>SAND; Tan and orange SAND, some moist.<br>SAND; Tan SAND, saturated. | – | 1435 | |
| 10–11 | | | CL | CLAY; Grey CLAY, firm, saturated. | | | |

End of boring @ 11'.

WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-106



START
SB-106
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 18 December 2002 | Well Diameter | : N/A |
| Drilling Company | : Mid-America Drilling | Total Depth | : 11' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0 | | | | | | | |
| 1 | 3 | | AR | FILL; Black FILL, some clay, silt and brick fragments. | – | 1445 | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | SAND; Dark brown and tan SAND, medium to fine grained, some moist. | | | |
| 5 | 4 | | | SAND; Tan SAND, medium grained, moist. | – | | |
| 6 | | | | | | | |
| 7 | | | SP | SAND; Tan SAND, saturated. | | | |
| 8 | | | | SAND; Dark brown to grey SAND. | | | |
| 9 | 4 | | | | – | 1453 | |
| 10 | | | CL | CLAY; Grey CLAY, firm, saturated. | | | |
| 11 | | | | End of boring @ 11'. | | | |
| 12 | | | | | | | |

WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-107



START
SB-107
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 18 December 2002 | Well Diameter | : N/A |
| Drilling Company | : Mid-America Drilling | Total Depth | : 15' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0–3 | 3 | | AR | FILL; Dark brown to black, clayey FIL, with coarse gravel and brick fragments, some moisture.<br>FILL; Sandy FILL | – | 1512 | X |
| 3–6 | 4 | | CL | CLAY; Brown sandy CLAY, some concrete fragments. | – | | |
| 6–14 | 4<br>4 | | SP | SAND; Red SAND, medium grained, moist.<br>SAND; Saturated red SAND.<br>SAND; Saturated grey and black SAND | –<br>– | 1520 | X |
| 14–15 | | | CL | CLAY; Grey CLAY, sandy, soft, plastic. | | | |

End of boring @ 15'.

WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-108



EPA - START
SB-108
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 18 December 2002 | Well Diameter | : N/A |
| Drilling Company | : Mid-America Drilling | Total Depth | : 11' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0 | | | | FILL; Black silty clayey fill, wet. | | | |
| 1 | 3 | | AR | CLAY; Orange and brown sandy CLAY, some brick fragments. | – | 1530 | |
| 2 | | | | FILL; Red and brown sandy FILL with some slag fragments. | | | |
| 3 | | | | | | | |
| 4 | | | | SAND; Tan medium grained SAND, moist. | | | |
| 5 | 4 | | | | – | | |
| 6 | | | SP | | | | |
| 7 | | | | SAND; Brown and black SAND, wet. | | | |
| 8 | | | | | | | |
| 9 | 4 | | | | – | 1535 | |
| 10 | | | CL | CLAY; Grey plastic CLAY, soft. | | | |
| 11 | | | | End of boring @ 11'. | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |

WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-109



EPA - START
SB-109
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 19 December 2002 | Well Diameter | : N/A |
| Drilling Company | : Mid-America Drilling | Total Depth | : 11' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0 | | | AR | FILL; Tan and brown sand, and black gravel and clay FILL. | | | |
| | | | | SAND; Tan medium to fine grained SAND, moist. | | | |
| 1 | 3 | | | | – | 1055 | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | SAND; Black sitly SAND, dry. | | | |
| 5 | 4 | | | | – | | |
| | | | SP | SAND; Tan medium to fine grained SAND. | | | |
| 6 | | | | SAND; Black clayey SAND. | | | |
| 7 | | | | SAND; Brown/grey SAND, wet. | | | |
| 8 | | | | | | | |
| 9 | 4 | | | | – | 1058 | |
| 10 | | | | SAND; As above, more clayey. | | | |
| 11 | | | | End of boring @ 11'. | | | |
| 12 | | | | | | | |

WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-110



EPA - START
SB-110
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 19 December 2002 | Well Diameter | : N/A |
| Drilling Company | : Mid-America Drilling | Total Depth | : 11' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0 | | | | FILL; Black clay and sand FILL, moist. | | | |
| | | | | FILL; Silty sandy clay with brick fragments. | | | |
| 1 | | | | FILL; Black and Brown silt, some concrete fragments. | | | |
| | 3 | | GP | | – | 1106 | |
| 2 | | | | | | | |
| 3 | | | | SAND; Tan and brown SAND, some black clay, moist. | | | |
| 4 | | | | SAND; Tan and brown SAND, wet. | | | |
| 5 | 4 | | | | – | | |
| 6 | | | SP | | | | |
| 7 | | | | SAND grade to CLAY; Brown and grey SAND, wet grade to grey plastic CLAY, firm. | | | |
| 8 | | | | | | | |
| 9 | 4 | | | | – | 1111 | |
| 10 | | | | CLAY; Grade from above | | | |
| | | | CL | | | | |
| 11 | | | | End of boring @ 11'. | | | |
| 12 | | | | | | | |

WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-111



EPA - START
SB-111
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 19 December 2002 | Well Diameter | : N/A |
| Drilling Company | : Mid-America Drilling | Total Depth | : 11' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0 | | | | FILL; Brown and black clayey FILL, with brick fragmetns. | | | |
| 1 | | | | FILL; Brown snady FILL, loose. | | | |
| | 3 | | | | – | 0946 | |
| 2 | | | AR | | | | |
| | | | | FILL; Black clayey FILL, firm. | | | |
| 3 | | | | | | | |
| 4 | | | | SAND; Tan SAND, moist. | | | |
| 5 | 4 | | | | – | | |
| 6 | | | | | | | |
| 7 | | | SP | | | | |
| 8 | | | | | | | |
| 9 | 4 | | | SAND; Brown and tan SAND, wet. | – | 0950 | |
| 10 | | | | CLAY; Grey plastic clay. | | | |
| | | | CL | | | | |
| 11 | | | | End of boring @ 11'. | | | |
| 12 | | | | | | | |

WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-112



EPA - START
SB-112
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 19 December 2002 | Well Diameter | : N/A |
| Drilling Company | : Mid-America Drilling | Total Depth | : 11' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0 | | | AR | FILL; Black silty sandy FILL, loose, moist. | | | |
| 1 | | | | FILL; Tan sand and coarse grained, rounded gravel. | | | |
| 2 | | | | FILL; Brown silty and sandy FILL, some brick fragments, loose. | | | |
| 3 | | | SP | SAND; Brown tan SAND and gravel, slight moist. | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | SAND; Tan and orange medium grained SAND. | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | SAND; Tan medium to fine grained SAND, wet. | | | |
| 10 | | | | | | | |
| 11 | | | | End of boring @ 11'. | | | |
| 12 | | | | | | | |

WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-113



EPA - START
SB-113
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 19 December 2002 | Well Diameter | : N/A |
| Drilling Company | : Mid-America Drilling | Total Depth | : 11' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0 | | | AR | FILL; Black clayey FILL with tan sand and brick fragments. | | | |
| 1 | 3 | | GP | FILL; Tan sand. | – | 1033 | |
| 2 | | | | | | | |
| 3 | | | | FILL; Black sand fill with brick fragments, loose. | | | |
| 4 | | | ML | SILT; Brown SILT and large concrete fragments. | | | |
| 5 | 4 | | SP | SAND; Tan and brown SAND. | – | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | SAND; Brown silty SAND, wet. | | | |
| 9 | 4 | | | SAND; Grey fine grained SAND, saturated. | – | 1032 | |
| 10 | | | CL | CLAY; Grey plastic CLAY, wet. | | | |
| 11 | | | | End of boring @ 11'. | | | |
| 12 | | | | | | | |

WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-114



EPA - START
SB-114
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 19 December 2002 | Well Diameter | : N/A |
| Drilling Company | : Mid-America Drilling | Total Depth | : 11' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0 | | | | FILL; Black clayey FILL, moist. | | | |
| 1 | 3 | | AR | FILL; wood fragments. | – | 0958 | |
| 2 | | | | SAND; Brown and tan medium grained SAND, moist. | | | |
| 3 | | | | SAND; Tan medium to fine grained SAND, moist. | | | |
| 4 | | | | | | | |
| 5 | 4 | | SP | | – | | |
| 6 | | | | | | | |
| 7 | | | | SAND; Tan SAND, wet. | | | |
| 8 | | | | | | | |
| 9 | 4 | | | | – | 1003 | |
| 10 | | | CL | CLAY; Grey plastic CLAY, wet. | | | |
| 11 | | | | End of boring @ 11'. | | | |
| 12 | | | | | | | |

# Log of Soil Boring SB-115



WESTON SOLUTIONS
Restoring Resource Efficiency

START
SB-115
76 and Parnell
Chicago, IL

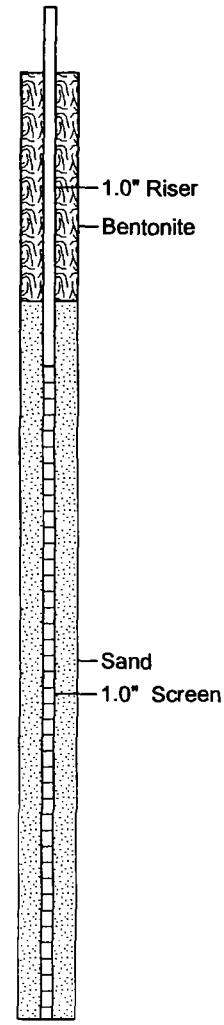
| | | | |
|---|---|---|---|
| Date Completed | : 18 December 2002 | Well Diameter | : 1.0" |
| Drilling Company | : Mid-America Drilling | Total Depth | : 15' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

Legend
ags = above ground surface
– = not measured

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0–4 | 3 | | GP | FILL; Clayey gravel FILL.<br>FILL; Brown and black gravel and sand FILL, loose.<br>FILL; Brown silt and sand FILL, some brick fragments. | – | 0835 | X |
| 4–11 | 4<br>4 | | SP | SAND; Brown and tan, moist.<br>SAND; Tan and brown medium to fine grained SAND, wet. | –<br>– | 0841 | X |
| 11–15 | 4 | | CL | CLAY; Brown silty CLAY, saturated.<br>CLAY; Grey CLAY. | – | | |

End of boring @ 15'.

Well: SB-115
TOC Elev.: AGS



WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-116



EPA - START
SB-116
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 19 December 2002 | Well Diameter | : N/A |
| Drilling Company | : Mid-America Drilling | Total Depth | : 11' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0 | | | | | | | |
| 1 | 3 | | AR | FILL; Black and brown clayey sandy FILL, moist. | – | 0805 | X |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | SAND; Tan medium to fine grained SAND, moist. | | | |
| 5 | 4 | | | | – | | |
| 6 | | | | | | | |
| 7 | | | SP | SAND; Tan medium to fine grained SAND, wet. | | | X |
| 8 | | | | | | | |
| 9 | 4 | | | | – | 0807 | |
| 10 | | | | | | | |
| 11 | | | | End of boring @ 11'. | | | |
| 12 | | | | | | | |

# Log of Soil Boring SB-117



Restoring Resource Efficiency

EPA - START
SB-117
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 19 December 2002 | Well Diameter | : N/A |
| Drilling Company | : Mid-America Drilling | Total Depth | : 11' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0 | | | | FILL; Clay FILL with sand, moist. | | | |
| 1 | 3 | | | | – | 1016 | |
| 2 | | | AR | FILL; Tan sand. | | | |
| | | | | FILL; Black sand FILL, some concrete fragments, dry. | | | |
| 3 | | | | FILL; Tand and black sand and clay FILL. | | | |
| 4 | | | | | | | |
| 5 | 4 | | | | – | | |
| 6 | | | | SAND; Tan medium grained SAND, moist. | | | |
| 7 | | | SP | | | | |
| 8 | | | | SAND; Tan SAND, wet. | | | |
| 9 | 4 | | | | – | 1019 | |
| | | | | SAND; Brown SAND. | | | |
| 10 | | | CL | CLAY; Grey CLAY, wet. | | | |
| 11 | | | | End of boring @ 11'. | | | |
| 12 | | | | | | | |

WESTON SOLUTIONS
Restoring Resource Efficiency

# Log of Soil Boring SB-118



EPA - START
SB-118
76 and Parnell
Chicago, IL

| | | | |
|---|---|---|---|
| Date Completed | : 19 December 2002 | Well Diameter | : N/A |
| Drilling Company | : Mid-America Drilling | Total Depth | : 11' BGS |
| Drilling Method | : Direct Push | WESTON Geologist | : James Molholm |
| Driller Name | : Jeremy Huger | | |
| Borehole Diameter | : 2.25" | | |

| Depth in feet | Recovery (in. per 4' interval) | GRAPHIC | USCS | DESCRIPTION | Field OVM Reading (ppm) | Time of Sampling | Sample |
|---|---|---|---|---|---|---|---|
| 0–5 | 3 | | AR | FILL; Black silty clay FILL, some coarse grained gravel, loose, moist.<br>FILL; Coarse grained brick and concrete fragments.<br>FILL grade to SAND; BLack FILL, some slag, loose, grade to brown medium grained SAND, loose, moist. | – | 0730 | X |
| 5–10 | 4 | | SP | SAND; Tan slight orange medium grained SAND, moist.<br>SAND, Brown slight dark brown, meduim to fine grained, SAND, wet. | – | 0737 | X |
| 10–15 | 4 | | CL | CLAY; Grey plastic CLAY, soft. | – | | |
| 15–19 | 4 | | SP | SAND; Tan, black and brown medium to fine grained SAND, saturated. | – | | |
| 19–20 | | | | End of boring @ 19'. | | | |

# APPENDIX B

# ANALYTICAL DATA

# START Project
# Project Name: 76th and Parrell
# Lab Order# 02120730
# Data Validation

Thursday, January 09, 2003

**Suburban Laboratories, Inc.**

**RCRA Metals (As, Ba, Cd, Cr, Pb, Se, Ag by ICP)/ Mercury (by CVAA) Method SW6010B/7471A:**

1. **Samples:**

| Client Sample ID | Lab ID | Matrix | Date Collected | Date Digested | Date Analyzed |
|---|---|---|---|---|---|
| SB-101 (0-3) | 02120730-01 | Soil | 12/18/02 | 12/19/02 | 12/21/02/12/26/02 (Hg) |
| SB-101 (7-11) | 02120730-02 | Soil | 12/18/02 | 12/19/02 | 12/21/02/12/26/02 (Hg) |
| SB-102 (0-3) | 02120730-03 | Soil | 12/18/02 | 12/19/02 | 12/21/02/12/26/02 (Hg) |
| SB-102 (7-11) | 02120730-04 | Soil | 12/18/02 | 12/19/02 | 12/21/02/12/26/02 (Hg) |
| SB-103 (0-3) | 02120730-05 | Soil | 12/18/02 | 12/19/02 | 12/21/02/12/26/02 (Hg) |
| SB-103 (7-11) | 02120730-06 | Soil | 12/18/02 | 12/19/02 | 12/21/02/12/26/02 (Hg) |
| SB-105 (0-3) | 02120730-09 | Soil | 12/18/02 | 12/19/02 | 12/21/02/12/26/02 (Hg) |
| SB-105 (7-11) | 02120730-10 | Soil | 12/18/02 | 12/19/02 | 12/21/02/12/26/02 (Hg) |
| SB-106 (0-3) | 02120730-11 | Soil | 12/18/02 | 12/19/02 | 12/21/02/12/26/02 (Hg) |
| SB-106 (7-11) | 02120730-12 | Soil | 12/18/02 | 12/19/02 | 12/21/02/12/26/02 (Hg) |
| SB-102 (0-3) DUP | 02120730-13 | Soil | 12/18/02 | 12/19/02 | 12/21,24/02/12/26/02 (Hg) |
| SB-105 (0-3) DUP | 02120730-17 | Soil | 12/18/02 | 12/19/02 | 12/21,24/02/12/26/02 (Hg) |
| SB-105 (7-11) DUP | 02120730-18 | Soil | 12/18/02 | 12/19/02 | 12/21,24/02/12/26/02 (Hg) |
| SB-107 (0-3) | 02120730-19 | Soil | 12/18/02 | 12/19/02 | 12/21,24/02/12/26/02 (Hg) |
| SB-107 (7-11) | 02120730-20 | Soil | 12/18/02 | 12/19/02 | 12/21,24/02/12/26/02 (Hg) |

**Total Metals (by ICP)/ Mercury (by CVAA) Method SW6010B/7471A/ and Total Cyanide by SW9014:**

| Client Sample ID | Lab ID | Matrix | Date Collected | Date Digested | Date Analyzed |
|---|---|---|---|---|---|
| SB-104 (0-3) | 02120730-07 | Soil | 12/18/02 | 12/19/02 | 12/21,23,24,26,27,12/26(CN,Hg) |
| SB-104 (7-11) | 02120730-08 | Soil | 12/18/02 | 12/19/02 | 12/21,23,24,26,27,12/26(CN,Hg) |
| SB-108 (0-3) | 02120730-21 | Soil | 12/18/02 | 12/19/02 | 12/21,23,24,26,27,12/26(CN,Hg) |
| SB-108 (7-11) | 02120730-22 | Soil | 12/18/02 | 12/19/02 | 12/21,23,24,26,27,12/26(CN,Hg) |
| SB-108 (7-11) DUP | 02120730-23 | Soil | 12/18/02 | 12/19/02 | 12/21,23,24,26,27,12/26(CN,Hg) |

**TCLP Lead by GFAA, SW1311/7421:**

| Client Sample ID | Lab ID | Matrix | Date Collected | Date Digested | Date Analyzed |
|---|---|---|---|---|---|
| SB-104 (0-3) | 02120730-07 | Soil | 12/18/02 | 12/26/02 | 12/26/02 |
| SB-108 (0-3) | 02120730-21 | Soil | 12/18/02 | 12/26/02 | 12/26/02 |
| SB-108 (7-11) | 02120730-22 | Soil | 12/18/02 | 12/26/02 | 12/26/02 |

2. **Holding Time:**
The samples were digested and analyzed within the required holding time.

3. **Method Blank:**
All associated method blanks MB-7635 were extracted on 12/19/02 and analyzed on 12/21/02, 12/23/02, 12/24/02, 12/26/02, 12/27/02, and all the results were free of contamination.

Thursday, January 09, 2003

The associated method blank LMB-7688 for (TCLP Pb analysis) was analyzed on 12/26/02 and the result was free of contamination.

4. **Matrix Spike:**
The matrix spike/matrix spike duplicate was performed on 02120730-01 for RCRA analysis. The MS/MSD recoveries were acceptable; except in MS/MSD for arsenic, cadmium, chromium, lead, selenium, and sliver. However, the RPD% values were acceptable, except in arsenic.
Therefore, qualify all the results in arsenic, cadmium, chromium, selenium, sliver as (J-/UJ), and qualify the results in lead as (J+).

The MS/MSD was performed on 02120730-23 for mercury analysis. The MS/MSD recoveries were outside the required control limit. However, no qualification was applied because the laboratory had another MS/MSD. The other two MS/MSD were performed on (02120794-23), on (02120730-02). Both MS/MSD recoveries were within the required control limit. Also, the RPD% values were acceptable.

The MS/MSD for (TCLP Pb) analysis was performed (02120730-07), and the recoveries were within the required control limit. Also, the RPD% values were acceptable.

5. **Laboratory Control Sample:**
All laboratories control samples results were within the required control limit, except for sliver aluminum, calcium, and sodium. Therefore, qualify all the results for sliver as (J-/UJ), and for aluminum, calcium, and sodium as estimated (J+).

# START Project
# Project Name: 76th and Parrell
# Lab Order# 02120730
# Data Validation

Thursday, January 09, 2003

**Volatiles by SW846 Method 8260:**

1. **Samples:**

| Sample ID | Lab ID | Matrix | Date Collected | Date Analyzed |
|---|---|---|---|---|
| SB-102 (0-3) | 02120730-03 | Soil | 12/18/02 | 12/26/02 |
| SB-102 (7-11) | 02120730-04 | Soil | 12/18/02 | 12/19/02 |
| SB-104 (0-3) | 02120730-07 | Soil | 12/18/02 | 12/26/02 |
| SB-104 (7-11) | 02120730-08 | Soil | 12/18/02 | 12/20/02 |
| SB-106 (0-3) | 02120730-11 | Soil | 12/18/02 | 12/27/02 |
| SB-106 (7-11) | 02120730-12 | Soil | 12/18/02 | 12/20/02 |
| SB-108 (0-3) | 02120730-21 | Soil | 12/18/02 | 12/26/02 |
| SB-108 (7-11) | 02120730-22 | Soil | 12/18/02 | 12/26/02 |

2. **Holding Time:**
The samples were analyzed within the required holding time.

3. **Method Blank:**
Three method blanks were associated with the samples. The method blank (batch #22004) was analyzed on 12/19/02 results contained naphthalene (0.68 ug/kg). However, the presence of naphthalene had no affect on the samples. Therefore, no qualification was applied.
The two method blanks were analyzed on 12/26/02 (batch #22101), and 12/27/02 (batch #22106) results were free of contamination.

4. **Surrogate:**
The investigated samples had surrogate recoveries within the acceptance quality control limits, except for 4-bromofluorobenzene in (02120730-03, 07, 11), dibromofluoromethane in (02120730-03), and toluene-d8 in (02120730-07).
Therefore, qualify the results in (02120730-03, 07) as (J/UJ). However, no action was taken on sample 02120730-011 because two surrogates must be outside control limits to warrant qualification.

5. **Laboratory Control Sample:**
The laboratory control sample recoveries were within the control limit.

# START Project
# Project Name: 76th and Parrell
# Lab Order# 02120730
# Data Validation

Thursday, January 09, 2003

**Semivolatiles by SW846 Method 8270**
**BNA**

1. **Samples:**

| Client Sample ID | Lab ID | Matrix | Date Collected | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|
| SB-103 (0-3) | 02120730-05 | Soil | 12/18/02 | 12/24/02 | 12/27/02 |
| SB-106 (0-3) | 02120730-11 | Soil | 12/18/02 | 12/24/02 | 12/27/02 |
| SB-103 (0-3) | 02120730-15 | Soil | 12/18/02 | 12/24/02 | 12/27/02 |

2. **Holding Time:**
The samples were extracted and analyzed within the required holding time.

3. **Method Blank:**
The method blank MB-7695 was analyzed 12/27/02 and the results were free of contamination.

4. **Surrogate:**
The investigated samples had surrogate recoveries within the acceptance quality control limits.

5. **Laboratory Control Sample:**
The associated LCS-7695 was analyzed on 12/27/02 and the recoveries were within the quality control limit, except in 4-nitrophenol, and pentachlorophenol. Therefore, qualify the results as (J/UJ).

# START Project
# Project Name: 76th and Parrell
# Lab Order# 02120730
# Data Validation

*Thursday, January 09, 2003*

## Organochlorine Pesticides by SW846 Method 8081

1. **Samples:**

| Client Sample ID | Lab ID | Matrix | Date Collected | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|
| SB-103 (7-11) | 02120730-06 | Soil | 12/18/02 | 12/19/02 | 12/21/02 |
| SB-106 (7-11) | 02120730-12 | Soil | 12/18/02 | 12/19/02 | 12/21/02 |
| SB-103 (7-11) DUP | 02120730-16 | Soil | 12/18/02 | 12/19/02 | 12/21/02 |

2. **Holding Time:**
The samples were extracted and analyzed within the required holding time.

3. **Method Blank:**
The method blank MB-7649 was analyzed on 12/21/02 with the samples and the results were free of contamination.

4. **Surrogate:**
The investigated samples had surrogate recoveries within the acceptance quality control limits.

5. **Laboratory Control Sample:**
The laboratory control sample recoveries were within the quality control limits, except in delta-BHC. No qualification was applied because the delta-BHC results in the samples were non-detected.

# START Project
# Project Name: 76th and Parrell
# Lab Order# 02120730
# Data Validation

Thursday, January 09, 2003

**PCB by SW846 Method 8082**

1. **Samples:**

| Client Sample ID | Lab ID | Matrix | Date Collected | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|
| SB-103 (7-11) | 02120730-06 | Soil | 12/18/02 | 12/19/02 | 12/20/02 |
| SB-106 (7-11) | 02120730-12 | Soil | 12/18/02 | 12/19/02 | 12/20/02 |
| SB-103 (7-11) DUP | 02120730-16 | Soil | 12/18/02 | 12/19/02 | 12/20/02 |

2. **Holding Time:**
The samples were extracted and analyzed within the required holding time.

3. **Method Blank:**
The two method blanks MB-7648 were analyzed on 12/19/002, and 12/21/02. All the method blanks results were free of contamination.

4. **Surrogate:**
The investigated samples had surrogate recoveries within the acceptance quality control limits.

5. **Laboratory Control Sample:**
The laboratories control samples recoveries were within the quality control limits.

# START Project
# Project Name: 76th and Parrell
# Lab Order# 02120730
# Data Validation

Thursday, January 09, 2003

**WET CHEMISTRY:**

**PH Analysis Method SW9045C:**

1. **Samples:**

| Sample ID | Lab ID | Matrix | Date Collected | Date Analyzed |
|---|---|---|---|---|
| SB-101 (0-3) | 02120730-01 | Soil | 12/18/02 | 12/19/02 |
| SB-101 (7-11) | 02120730-02 | Soil | 12/18/02 | 12/19/02 |
| SB-102 (0-3) | 02120730-03 | Soil | 12/18/02 | 12/19/02 |
| SB-102 (7-11) | 02120730-04 | Soil | 12/18/02 | 12/19/02 |
| SB-103 (0-3) | 02120730-05 | Soil | 12/18/02 | 12/19/02 |
| SB-103 (7-11) | 02120730-06 | Soil | 12/18/02 | 12/19/02 |
| SB-104 (0-3) | 02120730-07 | Soil | 12/18/02 | 12/19/02 |
| SB-104 (7-11) | 02120730-08 | Soil | 12/18/02 | 12/19/02 |
| SB-105 (0-3) | 02120730-09 | Soil | 12/18/02 | 12/19/02 |
| SB-105 (7-11) | 02120730-10 | Soil | 12/18/02 | 12/19/02 |
| SB-106 (0-3) | 02120730-11 | Soil | 12/18/02 | 12/19/02 |
| SB-106 (7-11) | 02120730-12 | Soil | 12/18/02 | 12/19/02 |
| SB-107 (0-3) | 02120730-19 | Soil | 12/18/02 | 12/19/02 |
| SB-107 (7-11) | 02120730-20 | Soil | 12/18/02 | 12/19/02 |
| SB-108 (0-3) | 02120730-21 | Soil | 12/18/02 | 12/19/02 |
| SB-108 (7-11) | 02120730-22 | Soil | 12/18/02 | 12/19/02 |

2. **Holding Time:**
The samples were analyzed one day later prior to the day of receipt. No action was taken because there is no EPA-established holding time for PH in soils.

Data Reviewed By: Tania Balikji-Shammo Data: 01/13/03

# SUBURBAN LABORATORIES, Inc.

4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587


ACCREDITED IN ACCORDANCE WITH nelac

January 16, 2003

Rick Mehl
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, Illinois 60061
Tel: (847) 918-4000
Fax: (847) 918-4055

Project Name: 76th and Parrell

Lab Order # **02120730**

Dear Rick Mehl,

Suburban Laboratories, Inc. received 23 samples on 12/18/02 7:05:00 PM for the analyses presented in the following report.

There were no problems with the analyses and all the data for the associated QC met EPA or laboratory specifications except where noted in the case narrative.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. Also included in this is some or all of your analytical results reported in dry weight basis. This is designated on the analytical report in the units field, you will see a "Dry" after the normal reporting units. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call your customer service representative at (708) 544-3260.

Sincerely,

Mike Chung
Data Review Manager

CC:

# SUBURBAN LABORATORIES, Inc.

4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587


ACCREDITED IN ACCORDANCE WITH nelac

**CLIENT:** Weston Solutions, Inc.
**Project:** 76th and Parrell
**Lab Order #** *02120730*

## CASE NARRATIVE

**Date:** *Thursday, January 16, 2003*

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of Part 186 unless otherwise indicated.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated. For more information about the laboratories' scope of accreditation, please contact Suburban or the Agency.
- MDL: Method Detection Limit. The minimum concentration of an analyte that can be measured and reported with a 99% confidence that analyte is greater than zero.
- PQL: Practical Quantitation Limit. The lowest concentration that can be reliably achieved within specified requirements of precision and accuracy during routine laboratory operating conditions. The PQL is generally 3 times the MDL.
- DF: Dilution Factor

Data Qualifiers:
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ: The analyte was not detected above the reported detection limit. However, the reported limits approximate and may or may not represent the actual limits of detection and quantitation necessary to accurately and precisely measure the analyte in the sample.
I: Result is Invalid; CS: Compound Screened; TNTC: Too Numerous to Count

Method References:
E: USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40CFR136 App A; Methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water
SW: USEPA, Test Methods for Evaluating Solid Waste, SW-846, 3rd Ed, includes Updates I-III
M: APHA, Standard Methods for the Examination of Water and Wastewater, 18th & 19th Ed.
D: ASTM, Annual Book of Standards F: NAS, Food Chemicals Codex (FCC), 4th Edition
B: US FDA Bacteriological Analytical Manual (BAM) 8th Edition, 1995
USP: US Pharmacopoeia, 24th Revision, 2000

Project Specific Comments:

This report supercedes all previous reports. The MDL and PQL for sodium was reported as zero (0). This has been corrected. Also, in the QA package, the LCS recoveries for 8270C-SIM, were incorrect (no recoveries were calculated). This is also been corrected in this report.

Metals:

Silver(Ag): S=The LCS percent recovery (18%) was outside laboratory control limits (80% - 120%).

730-1a Sample :
Arsenic(As): S=The MS percent recovery (44.26%) and the MSD percent recovery (36.16%) were outside laboratory control limits (80% -120%).
Cadmium(Cd): S=The MS percent recovery (63.92%) and the MSD percent recovery (63.92%) were outside laboratory control limits (80% -120%).
Chromium(Cr): S=The MS percent recovery (58.24%) and the MSD percent recovery (44.07%)were outside laboratory c

limits (80% -120%).
ead(Pb): S=The MSD percent recovery (0%) and the MSD percent recovery (0%)were outside laboratory control limits (80% - 20%).
Selenium(Se): S=The MS percent recovery (20.53%) and the MSD percent recovery (20.56%) were outside laboratory control limits (80% -120%).
ilver(Ag): S=The MS percent recovery (1.21%) and the MSD percent recovery (0%) were outside laboratory control limits (80% -120%).

amples 02120730- 7A,8A,21A,22A,23A Aluminum/Calcium: S=The LCS percent recovery (147%/152%) was outside aboratory control limits (85% - 115%).

Sample 02120730-23A:
Mercury: S = The MS percent recovery (48.0 %) and the MSD percent recovery (50.9 %%) were outside laboratory control limits (60.7 % -130.0 %).

Sample 02120730-1a :
Arsenic(As): R=The MS & MSD Precision (20.15% RPD) was greater than laboratory control limits .

Pesticides:
S = The percent recovery of delta-BHC in the laboratory control sample (42.6%) was outside laboratory control limits (50.4-150%).
S= The closing CCV passed Method Criteria of Average Response Factor Deviation of 6.44%, but were outside individual limits (85%-115%) for 4,4-DDT (67.4%) and Methoxychlor (76.94%) for samples 02120730-06A,12A and16A.

Semivolatiles:

Q = The Internal standard recovery for this analyte in the sample is outside in-house laboratory criteria (no method specific requirement for internal standard recovery on a sample by sample basis).
Samples 02120730-05A,11A, 15A S= The LCS recovery limits for the following analytes are outside laboratory control limits:
4-Nitrophenol 20.8% (33-173%)
Pentachlorophenol 0% (36%-144%)

Volatiles:
Q = The Internal standard recovery for this analyte in the sample is outside in-house laboratory criteria (no method specific requirement for internal standard recovery on a sample by sample basis).

730-7A,8A,21A,22A,23A Sample :
Sodium(Na): S=The LCS percent recovery (217%) was outside laboratory control limits (80% - 120%).

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-01 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 12:05 :00 PM
**Client Sample ID:** SB-101 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: FRA |
| Arsenic | ND UJ | SR | 0.51 | 1.5 | mg/Kg-dry | 1 | 12/21/02 2:23 pm |
| Barium | 37.0 J TBS | | 0.030 | 0.089 | mg/Kg-dry | 1 | 12/21/02 2:23 pm |
| Cadmium | ND UJ | S | 0.030 | 0.089 | mg/Kg-dry | 1 | 12/21/02 2:23 pm |
| Chromium | 7.74 J- | S | 0.089 | 0.27 | mg/Kg-dry | 1 | 12/21/02 2:23 pm |
| Lead | 283 J+ | S | 0.27 | 0.80 | mg/Kg-dry | 1 | 12/21/02 2:23 pm |
| Selenium | ND UJ | S | 0.38 | 1.2 | mg/Kg-dry | 1 | 12/21/02 2:23 pm |
| Silver | ND UJ | S | 0.030 | 0.089 | mg/Kg-dry | 1 | 12/21/02 2:23 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DP TBS 1/29/03 |
| Acenaphthene | ND UJ | | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Acenaphthylene | ND UJ | | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Anthracene | 52 | J | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Benzo(a)anthracene | 313 J | | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Benzo(a)pyrene | 333 | | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Benzo(b)fluoranthene | 378 | | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Benzo(g,h,i)perylene | 268 | | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Benzo(k)fluoranthene | 120 | J | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Chrysene | 345 | | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Dibenzo(a,h)anthracene | 66 | J | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Fluoranthene | 569 | | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Fluorene | ND UJ | | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Indeno(1,2,3-cd)pyrene | 189 J | | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Naphthalene | 77 | J | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Phenanthrene | 406 J | | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Pyrene | 682 J | | 47.4 | 142 | µg/Kg-dry | 1 | 12/20/02 4:24 am |
| Surr: 2-Fluorobiphenyl | 319 | S | 0 | 70-130 | %REC | 1 | 12/20/02 4:24 am |
| Surr: 4-Terphenyl-d14 | 235 | S | 0 | 70-130 | %REC | 1 | 12/20/02 4:24 am |
| Surr: Nitrobenzene-d5 | 295 | S | 0 | 70-130 | %REC | 1 | 12/20/02 4:24 am |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | 3.39 | | 0.0095 | 0.028 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: EM |
| pH | 7.69 | | 0 | 0 | pH Units | 1 | 12/19/02 10:19 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 15.7 | | 0 | 0 | wt% | 1 | 12/23/02 4:45 pm |

TBS 1/29/03

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

# Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*

**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-02 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 12:10:00 PM

**Client Sample ID:** SB-101 (7-11) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND UJ | | 0.45 | 1.4 | mg/Kg-dry | 1 | 12/21/02 2:31 pm |
| Barium | 19.1 | | 0.027 | 0.080 | mg/Kg-dry | 1 | 12/21/02 2:31 pm |
| Cadmium | ND UJ | | 0.027 | 0.080 | mg/Kg-dry | 1 | 12/21/02 2:31 pm |
| Chromium | 10.4 J- | | 0.080 | 0.24 | mg/Kg-dry | 1 | 12/21/02 2:31 pm |
| Lead | 8.06 J+ | | 0.25 | 0.72 | mg/Kg-dry | 1 | 12/21/02 2:31 pm |
| Selenium | ND UJ | | 0.34 | 1.0 | mg/Kg-dry | 1 | 12/21/02 2:31 pm |
| Silver | ND UJ | | 0.027 | 0.080 | mg/Kg-dry | 1 | 12/21/02 2:31 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DP |
| Acenaphthene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Acenaphthylene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Anthracene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Benzo(a)anthracene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Benzo(a)pyrene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Benzo(b)fluoranthene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Benzo(g,h,i)perylene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Benzo(k)fluoranthene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Chrysene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Dibenzo(a,h)anthracene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Fluoranthene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Fluorene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Indeno(1,2,3-cd)pyrene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Naphthalene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Phenanthrene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Pyrene | ND | | 49.0 | 147 | µg/Kg-dry | 1 | 12/19/02 6:50 pm |
| Surr: 2-Fluorobiphenyl | 71.5 | | 0 | 70-130 | %REC | 1 | 12/19/02 6:50 pm |
| Surr: 4-Terphenyl-d14 | 61.4 | S | 0 | 70-130 | %REC | 1 | 12/19/02 6:50 pm |
| Surr: Nitrobenzene-d5 | 72.6 | | 0 | 70-130 | %REC | 1 | 12/19/02 6:50 pm |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | ND | | 0.0098 | 0.029 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: EM |
| pH | 8.43 | | 0 | 0 | pH Units | 1 | 12/19/02 10:19 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 18.4 | | 0 | 0 | wt% | 1 | 12/23/02 4:45 pm |

TBS
1/29/03

**Qualifiers:**

ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-03 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 1:32:00 PM
**Client Sample ID:** SB-102 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ~~ND~~ VJ | | 0.47 | 1.4 | mg/Kg-dry | 1 | 12/21/02 3:04 pm |
| Barium | 43.5 | | 0.027 | 0.082 | mg/Kg-dry | 1 | 12/21/02 3:04 pm |
| Cadmium | ~~ND~~ UJ | | 0.027 | 0.082 | mg/Kg-dry | 1 | 12/21/02 3:04 pm |
| Chromium | 8.26 J- | | 0.082 | 0.24 | mg/Kg-dry | 1 | 12/21/02 3:04 pm |
| Lead | 108 J+ | | 0.25 | 0.74 | mg/Kg-dry | 1 | 12/21/02 3:04 pm |
| Selenium | ~~ND~~ UJ | | 0.35 | 1.1 | mg/Kg-dry | 1 | 12/21/02 3:04 pm |
| Silver | ND UJ | | 0.027 | 0.082 | mg/Kg-dry | 1 | 12/21/02 3:04 pm |
| **VOLATILE ORGANIC COMPOUNDS** | | | Method: SW8260B | | | | Analyst: BK |
| 1,1,1-Trichloroethane | ND | | 0.346 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| 1,1,2,2-Tetrachloroethane | ND | Q | 0.516 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| 1,1,2-Trichloroethane | ND | | 1.08 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| 1,1-Dichloroethane | ND | | 0.374 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| 1,1-Dichloroethene | ND | | 0.801 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| 1,2-Dichloroethane | ND | | 0.455 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| 1,2-Dichloropropane | ND | | 0.700 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| 2-Butanone | 5.3 | J | 2.35 | 7.79 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| 2-Hexanone | ND | Q | 1.16 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| 4-Methyl-2-pentanone | ND | | 0.951 | 7.79 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Acetone | 95.1 | | 4.61 | 7.79 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Benzene | 2.95 | | 0.494 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Bromodichloromethane | ND | | 0.315 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Bromoform | ND | Q | 0.781 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Bromomethane | ND | | 3.82 | 7.79 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Carbon disulfide | 8.09 | | 0.620 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Carbon tetrachloride | ND | | 0.597 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Chlorobenzene | ND | Q | 0.563 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Chloroethane | ND | | 6.27 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Chloroform | 2.12 | | 0.349 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Chloromethane | ND | | 1.71 | 7.79 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| cis-1,2-Dichloroethene | ND | | 0.446 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| cis-1,3-Dichloropropene | ND | | 0.454 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Dibromochloromethane | ND | Q | 0.533 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Ethylbenzene | 1.3 | JQ | 0.586 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| m,p-Xylene | 3.87 | Q | 1.33 | 3.12 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Methyl tert-butyl ether | ND | | 0.408 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Methylene chloride | ND | | 0.614 | 7.79 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| o-Xylene | 1.87 | Q | 0.850 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Styrene | ND | Q | 0.528 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Tetrachloroethene | 8.95 | Q | 1.25 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Toluene | 3.90 | | 0.597 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| trans-1,2-Dichloroethene | ND | | 0.845 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**IENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ans-1,3-Dichloropropene | ND | | 0.546 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| richloroethene | 8.48 | | 0.808 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Vinyl chloride | ND | | 0.659 | 1.56 | µg/Kg-dry | 1.43 | 12/26/02 9:18 pm |
| Surr: 4-Bromofluorobenzene | 59.0 | SQ | 0 | 70-130 | %REC | 1.43 | 12/26/02 9:18 pm |
| Surr: Dibromofluoromethane | 141 | S | 0 | 70-130 | %REC | 1.43 | 12/26/02 9:18 pm |
| Surr: Toluene-d8 | 86.7 | | 0 | 70-130 | %REC | 1.43 | 12/26/02 9:18 pm |

**EMIVOLATILE ORGANICS, BY GCMS SIM** Method: SW8270C Analyst: DP

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 55 | J | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Acenaphthylene | ND | | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Anthracene | 110 | J | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Benzo(a)anthracene | 392 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Benzo(a)pyrene | 309 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Benzo(b)fluoranthene | 457 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Benzo(g,h,i)perylene | 218 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Benzo(k)fluoranthene | 153 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Chrysene | 382 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Dibenzo(a,h)anthracene | 60 | J | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Fluoranthene | 811 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Fluorene | ND | | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Indeno(1,2,3-cd)pyrene | 207 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Naphthalene | 177 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Phenanthrene | 874 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Pyrene | 767 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/19/02 7:23 pm |
| Surr: 2-Fluorobiphenyl | 82.7 | | 0 | 70-130 | %REC | 1 | 12/19/02 7:23 pm |
| Surr: 4-Terphenyl-d14 | 52.2 | S | 0 | 70-130 | %REC | 1 | 12/19/02 7:23 pm |
| Surr: Nitrobenzene-d5 | 81.0 | | 0 | 70-130 | %REC | 1 | 12/19/02 7:23 pm |

**MERCURY BY CVAA** Method: SW7471A Analyst: DZ

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mercury | 1.82 | | 0.0087 | 0.026 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |

**PH (IN LABORATORY)** Method: SW9045C Analyst: EM

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| pH | 7.24 | | 0 | 0 | pH Units | 1 | 12/19/02 10:19 am |

**PERCENT MOISTURE** Method: D2216 Analyst: BE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 8.27 | | 0 | 0 | wt% | 1 | 12/23/02 4:45 pm |

TBS
1/29/03

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continued

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-04 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 1:37:00 PM
**Client Sample ID:** SB-102 (7-11) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ~~ND~~ UJ | | 0.50 | 1.5 | mg/Kg-dry | 1 | 12/21/02 3:10 pm |
| Barium | 4.95 | | 0.029 | 0.087 | mg/Kg-dry | 1 | 12/21/02 3:10 pm |
| Cadmium | ~~ND~~ UJ | | 0.029 | 0.087 | mg/Kg-dry | 1 | 12/21/02 3:10 pm |
| Chromium | 2.76 J- | | 0.087 | 0.26 | mg/Kg-dry | 1 | 12/21/02 3:10 pm |
| Lead | 2.81 J+ | | 0.25 | 0.78 | mg/Kg-dry | 1 | 12/21/02 3:10 pm |
| Selenium | ~~ND~~ UJ | | 0.38 | 1.1 | mg/Kg-dry | 1 | 12/21/02 3:10 pm |
| Silver | ~~ND~~ UJ | | 0.029 | 0.087 | mg/Kg-dry | 1 | 12/21/02 3:10 pm |
| **VOLATILE ORGANIC COMPOUNDS** | | | Method: SW8260B | | | | Analyst: BK |
| 1,1,1-Trichloroethane | ND | | 0.271 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| 1,1,2,2-Tetrachloroethane | ND | | 0.405 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| 1,1,2-Trichloroethane | ND | | 0.845 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| 1,1-Dichloroethane | ND | | 0.293 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| 1,1-Dichloroethene | ND | | 0.627 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| 1,2-Dichloroethane | ND | | 0.356 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| 1,2-Dichloropropane | ND | | 0.548 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| 2-Butanone | ND | | 1.84 | 6.11 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| 2-Hexanone | ND | | 0.910 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| 4-Methyl-2-pentanone | ND | | 0.746 | 6.11 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Acetone | 7.08 | | 3.61 | 6.11 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Benzene | 4.01 | | 0.387 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Bromodichloromethane | ND | | 0.247 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Bromoform | 1.47 | | 0.612 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Bromomethane | ND | | 2.99 | 6.11 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Carbon disulfide | ND | | 0.486 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Carbon tetrachloride | ND | | 0.468 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Chlorobenzene | ND | | 0.441 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Chloroethane | ND | | 4.91 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Chloroform | 0.95 | J | 0.274 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Chloromethane | ND | | 1.35 | 6.11 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| cis-1,2-Dichloroethene | ND | | 0.350 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| cis-1,3-Dichloropropene | ND | | 0.355 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Dibromochloromethane | ND | | 0.417 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Ethylbenzene | 1.27 | | 0.459 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| m,p-Xylene | 1.7 | J | 1.04 | 2.44 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Methyl tert-butyl ether | ND | | 0.321 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Methylene chloride | ND | | 0.481 | 6.11 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| o-Xylene | 0.73 | J | 0.665 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Styrene | ND | | 0.413 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Tetrachloroethene | ND | | 0.981 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| Toluene | 5.50 | | 0.468 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |
| trans-1,2-Dichloroethene | ND | | 0.662 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 11:07 pm |

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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| rans-1,3-Dichloropropene | ND | | 0.427 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 | 11:07 pm |
| Trichloroethene | ND | | 0.632 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 | 11:07 pm |
| Vinyl chloride | ND | | 0.517 | 1.22 | µg/Kg-dry | 0.96 | 12/19/02 | 11:07 pm |
| Surr: 4-Bromofluorobenzene | 86.1 | | 0 | 70-130 | %REC | 0.96 | 12/19/02 | 11:07 pm |
| Surr: Dibromofluoromethane | 108 | | 0 | 70-130 | %REC | 0.96 | 12/19/02 | 11:07 pm |
| Surr: Toluene-d8 | 95.0 | | 0 | 70-130 | %REC | 0.96 | 12/19/02 | 11:07 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | Method: | SW8270C | | | | Analyst: | DP |
| Acenaphthene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Acenaphthylene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Anthracene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Benzo(a)anthracene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Benzo(a)pyrene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Benzo(b)fluoranthene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Benzo(g,h,i)perylene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Benzo(k)fluoranthene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Chrysene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Dibenzo(a,h)anthracene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Fluoranthene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Fluorene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Indeno(1,2,3-cd)pyrene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Naphthalene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Phenanthrene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Pyrene | ND | | 50.9 | 153 | µg/Kg-dry | 1 | 12/19/02 | 7:54 pm |
| Surr: 2-Fluorobiphenyl | 71.9 | | 0 | 70-130 | %REC | 1 | 12/19/02 | 7:54 pm |
| Surr: 4-Terphenyl-d14 | 67.0 | S | 0 | 70-130 | %REC | 1 | 12/19/02 | 7:54 pm |
| Surr: Nitrobenzene-d5 | 83.3 | | 0 | 70-130 | %REC | 1 | 12/19/02 | 7:54 pm |
| **MERCURY BY CVAA** | | Method: | SW7471A | | | | Analyst: | DZ |
| Mercury | ND | | 0.010 | 0.030 | mg/Kg-dry | 1 | 12/26/02 | 5:25 pm |
| **PH (IN LABORATORY)** | | Method: | SW9045C | | | | Analyst: | EM |
| pH | 8.31 | | 0 | 0 | pH Units | 1 | 12/19/02 | 10:19 am |
| **PERCENT MOISTURE** | | Method: | D2216 | | | | Analyst: | BE |
| Percent Moisture | 21.4 | | 0 | 0 | wt% | 1 | 12/23/02 | 4:45 pm |

TBS
1/29/03

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**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-05 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 1:42:00 PM
**Client Sample ID:** SB-103 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ~~ND~~ | UJ | 0.43 | 1.3 | mg/Kg-dry | 1 | 12/21/02 3:18 pm |
| Barium | 88.1 | | 0.026 | 0.077 | mg/Kg-dry | 1 | 12/21/02 3:18 pm |
| Cadmium | ~~ND~~ | UJ | 0.026 | 0.077 | mg/Kg-dry | 1 | 12/21/02 3:18 pm |
| Chromium | 6.73 | J- | 0.076 | 0.23 | mg/Kg-dry | 1 | 12/21/02 3:18 pm |
| Lead | 213 | J+ | 0.23 | 0.69 | mg/Kg-dry | 1 | 12/21/02 3:18 pm |
| Selenium | ~~ND~~ | UJ | 0.33 | 1.0 | mg/Kg-dry | 1 | 12/21/02 3:18 pm |
| Silver | ~~ND~~ | UJ | 0.026 | 0.077 | mg/Kg-dry | 1 | 12/21/02 3:18 pm |
| **SEMIVOLATILE ORGANICS (BNAS)** | | | Method: SW8270C | | | | Analyst: DP |
| 1,2,4-Trichlorobenzene | ND | | 91.7 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 1,2-Dichlorobenzene | ND | | 169 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 1,3-Dichlorobenzene | ND | | 87.1 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 1,4-Dichlorobenzene | ND | | 79.3 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 2,4,5-Trichlorophenol | ND | | 64.9 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 2,4,6-Trichlorophenol | ND | | 68.1 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 2,4-Dichlorophenol | ND | | 69.2 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 2,4-Dimethylphenol | ND | | 79.6 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 2,4-Dinitrophenol | ND | | 54.5 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 2,4-Dinitrotoluene | ND | | 38.7 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 2,6-Dinitrotoluene | ND | | 75.6 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 2-Chloronaphthalene | ND | | 50.9 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 2-Chlorophenol | ND | | 177 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 2-Methylnaphthalene | 659 | | 67.8 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 2-Nitroaniline | ND | | 34.1 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 2-Nitrophenol | ND | | 45.9 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 3,3-Dichlorobenzidine | ND | | 63.1 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 3-Nitroaniline | ND | | 42.3 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 4,6-Dinitro-2-methylphenol | ND | | 38.4 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 4-Bromophenyl phenyl ether | ND | | 26.7 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 4-Chloro-3-methylphenol | ND | | 99.3 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 4-Chloroaniline | ND | | 38.0 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 4-Chlorophenyl phenyl ether | ND | | 29.7 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 4-Nitroaniline | ND | | 53.5 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| 4-Nitrophenol | ~~ND~~ | UJ S | 38.7 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Bis(2-chloroethoxy)methane | ND | | 85.7 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Bis(2-chloroethyl)ether | ND | | 154 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Bis(2-chloroisopropyl)ether | ND | | 154 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Bis(2-ethylhexyl)phthalate | ND | | 180 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Butyl benzyl phthalate | ND | | 77.1 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Carbazole | 1,620 | | 180 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Di-n-butyl phthalate | ND | | 86.4 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Di-n-octyl phthalate | ND | Q | 48.7 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |

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H - Analysis run past method holding time

MDL-Continuous

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Dibenzofuran | 1,060 | | 33.3 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Diethyl phthalate | ND | | 40.5 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Dimethyl phthalate | ND | | 54.1 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Hexachlorobutadiene | ND | | 97.9 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Hexachlorocyclopentadiene | ND | | 88.9 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Hexachloroethane | ND | | 104 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Isophorone | ND | | 45.9 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| m,p-Cresol | ND | | 199 | 359 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| N-Nitrosodi-n-propylamine | ND | | 87.9 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| N-Nitrosodiphenylamine | ND | | 42.3 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Nitrobenzene | ND | | 115 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| o-Cresol | ND | | 59.2 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Pentachlorophenol | ~~ND~~ UJ | S | 32.3 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Phenol | ND | | 41.2 | 180 | µg/Kg-dry | 1 | 12/27/02 3:06 pm |
| Surr: 2,4,6-Tribromophenol | 102 | | 0 | 20-117 | %REC | 1 | 12/27/02 3:06 pm |
| Surr: 2-Fluorobiphenyl | 85.5 | | 0 | 47-128 | %REC | 1 | 12/27/02 3:06 pm |
| Surr: 2-Fluorophenol | 67.3 | | 0 | 41-108 | %REC | 1 | 12/27/02 3:06 pm |
| Surr: 4-Terphenyl-d14 | 64.9 | | 0 | 5-131 | %REC | 1 | 12/27/02 3:06 pm |
| Surr: Nitrobenzene-d5 | 78.5 | | 0 | 32-120 | %REC | 1 | 12/27/02 3:06 pm |
| Surr: Phenol-d5 | 71.3 | | 0 | 52-116 | %REC | 1 | 12/27/02 3:06 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DP |
| Acenaphthene | 594 | | 43.0 | 129 | µg/Kg-dry | 1 | 12/20/02 4:55 am |
| Acenaphthylene | 62 | J | 43.0 | 129 | µg/Kg-dry | 1 | 12/20/02 4:55 am |
| Anthracene | 1,080 | | 43.0 | 129 | µg/Kg-dry | 1 | 12/20/02 4:55 am |
| Benzo(a)anthracene | 3,220 | | 43.0 | 129 | µg/Kg-dry | 1 | 12/20/02 4:55 am |
| Benzo(a)pyrene | 2,600 | | 43.0 | 129 | µg/Kg-dry | 1 | 12/20/02 4:55 am |
| Benzo(b)fluoranthene | 3,550 | | 43.0 | 129 | µg/Kg-dry | 1 | 12/20/02 4:55 am |
| Benzo(g,h,i)perylene | 1,550 | | 43.0 | 129 | µg/Kg-dry | 1 | 12/20/02 4:55 am |
| Benzo(k)fluoranthene | 1,120 | | 43.0 | 129 | µg/Kg-dry | 1 | 12/20/02 4:55 am |
| Chrysene | 2,830 | | 43.0 | 129 | µg/Kg-dry | 1 | 12/20/02 4:55 am |
| Dibenzo(a,h)anthracene | 385 | | 43.0 | 129 | µg/Kg-dry | 1 | 12/20/02 4:55 am |
| Fluoranthene | 7,620 | | 215 | 645 | µg/Kg-dry | 5 | 12/24/02 11:24 am |
| Fluorene | 599 | | 43.0 | 129 | µg/Kg-dry | 1 | 12/20/02 4:55 am |
| Hexachlorobenzene | ND | | 43.0 | 129 | µg/Kg-dry | 1 | 12/20/02 4:55 am |
| Indeno(1,2,3-cd)pyrene | 1,600 | | 43.0 | 129 | µg/Kg-dry | 1 | 12/20/02 4:55 am |
| Naphthalene | 438 | | 43.0 | 129 | µg/Kg-dry | 1 | 12/20/02 4:55 am |
| Phenanthrene | 6,900 | | 215 | 645 | µg/Kg-dry | 5 | 12/24/02 11:24 am |
| Pyrene | 5,930 | | 215 | 645 | µg/Kg-dry | 5 | 12/24/02 11:24 am |
| Surr: 2-Fluorobiphenyl | 84.7 | | 0 | 70-130 | %REC | 1 | 12/20/02 4:55 am |
| Surr: 4-Terphenyl-d14 | 59.1 | S | 0 | 70-130 | %REC | 1 | 12/20/02 4:55 am |
| Surr: Nitrobenzene-d5 | 82.7 | | 0 | 70-130 | %REC | 1 | 12/20/02 4:55 am |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | 1.80 | | 0.0086 | 0.026 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: EM |
| pH | 8.05 | | 0 | 0 | pH Units | 1 | 12/19/02 10:19 am |

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E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc.

**Lab Order #:** *02120730*

**Project:** 76th and Parrell

**PERCENT MOISTURE** Method: D2216 Analyst: BE

| | | | | | | |
|---|---|---|---|---|---|---|
| Percent Moisture | 7.02 | 0 | 0 | wt% | 1 | 12/23/02 4:45 pm |

TBS
1/29/03

**Qualifiers:**

MDL-Continuous

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B - Analyte detected in the associated Method Blank
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E - Value above quantitation range
H - Analysis run past method holding time

# Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*

**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-06 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 1:46:00 PM

**Client Sample ID:** SB-103 (7-11) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND UJ | | 0.50 | 1.5 | mg/Kg-dry | 1 | 12/21/02 3:25 pm |
| Barium | 4.42 | | 0.030 | 0.088 | mg/Kg-dry | 1 | 12/21/02 3:25 pm |
| Cadmium | ND UJ | | 0.030 | 0.088 | mg/Kg-dry | 1 | 12/21/02 3:25 pm |
| Chromium | 3.39 J- | | 0.088 | 0.26 | mg/Kg-dry | 1 | 12/21/02 3:25 pm |
| Lead | 3.91 J+ | | 0.26 | 0.80 | mg/Kg-dry | 1 | 12/21/02 3:25 pm |
| Selenium | ND UJ | | 0.38 | 1.2 | mg/Kg-dry | 1 | 12/21/02 3:25 pm |
| Silver | ND UJ | | 0.030 | 0.088 | mg/Kg-dry | 1 | 12/21/02 3:25 pm |
| **ORGANOCHLORINE PESTICIDES** | | | Method: SW8081A | | | | Analyst: LA |
| 4,4-DDD | ND | | 2.48 | 7.43 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| 4,4-DDE | ND | | 4.96 | 14.9 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| 4,4-DDT | ND | S | 2.48 | 7.43 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| Aldrin | ND | | 4.96 | 14.9 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| alpha-BHC | ND | | 4.96 | 14.9 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| alpha-Chlordane | ND | | 3.72 | 11.2 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| beta-BHC | ND | | 7.43 | 22.3 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| Chlordane | ND | | 124 | 372 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| delta-BHC | ND | S | 2.48 | 7.43 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| Dieldrin | ND | | 14.9 | 44.6 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| Endosulfan I | ND | | 4.96 | 14.9 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| Endosulfan II | ND | | 3.72 | 11.2 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| Endosulfan sulfate | ND | | 4.96 | 14.9 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| Endrin | ND | | 4.96 | 14.9 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| Endrin aldehyde | ND | | 27.3 | 81.8 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| Endrin ketone | ND | | 2.48 | 7.43 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| gamma-BHC | ND | | 2.48 | 7.43 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| gamma-Chlordane | ND | | 4.96 | 14.9 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| Heptachlor | ND | | 1.24 | 3.72 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| Heptachlor epoxide | ND | | 7.43 | 22.3 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| Methoxychlor | ND | S | 32.2 | 96.7 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| Toxaphene | ND | | 248 | 743 | µg/Kg-dry | 1 | 12/21/02 9:58 pm |
| Surr: Tetrachloro-m-xylene | 70.1 | | 0 | 33.7-156 | %REC | 1 | 12/21/02 9:58 pm |
| **PCBS** | | | Method: SW8082 | | | | Analyst: LA |
| Aroclor 1016 | ND | | 124 | 372 | µg/Kg-dry | 1 | 12/20/02 1:21 am |
| Aroclor 1221 | ND | | 124 | 372 | µg/Kg-dry | 1 | 12/20/02 1:21 am |
| Aroclor 1232 | ND | | 124 | 372 | µg/Kg-dry | 1 | 12/20/02 1:21 am |
| Aroclor 1242 | ND | | 124 | 372 | µg/Kg-dry | 1 | 12/20/02 1:21 am |
| Aroclor 1248 | ND | | 124 | 372 | µg/Kg-dry | 1 | 12/20/02 1:21 am |
| Aroclor 1254 | ND | | 124 | 372 | µg/Kg-dry | 1 | 12/20/02 1:21 am |
| Aroclor 1260 | ND | | 124 | 372 | µg/Kg-dry | 1 | 12/20/02 1:21 am |
| Surr: Tetrachloro-m-xylene | 66.6 | | 0 | 33.7-156 | %REC | 1 | 12/20/02 1:21 am |

**Qualifiers:**

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B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

| SEMIVOLATILE ORGANICS, BY GCMS SIM | | | Method: SW8270C | | | | Analyst: DP |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Acenaphthylene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Anthracene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Benzo(a)anthracene | 51 | J | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Benzo(a)pyrene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Benzo(b)fluoranthene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Benzo(g,h,i)perylene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Benzo(k)fluoranthene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Chrysene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Dibenzo(a,h)anthracene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Fluoranthene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Fluorene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Indeno(1,2,3-cd)pyrene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Naphthalene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Phenanthrene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Pyrene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/19/02 8:26 pm |
| Surr: 2-Fluorobiphenyl | 78.5 | | 0 | 70-130 | %REC | 1 | 12/19/02 8:26 pm |
| Surr: 4-Terphenyl-d14 | 75.0 | | 0 | 70-130 | %REC | 1 | 12/19/02 8:26 pm |
| Surr: Nitrobenzene-d5 | 65.8 | S | 0 | 70-130 | %REC | 1 | 12/19/02 8:26 pm |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | ND | | 0.0099 | 0.030 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: EM |
| pH | 8.26 | | 0 | 0 | pH Units | 1 | 12/19/02 10:19 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 19.3 | | 0 | 0 | wt% | 1 | 12/23/02 4:45 pm |

TB 1/29/03

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E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-07 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 2:08:00 PM
**Client Sample ID:** SB-104 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Aluminum | 6,190 J+ | S | 180 | 530 | mg/kg-dry | 50 | 12/26/02 1:26 pm |
| Antimony | ND | | 0.23 | 0.70 | mg/kg-dry | 1 | 12/24/02 11:19 am |
| Arsenic | ND | | 0.39 | 1.2 | mg/Kg-dry | 1 | 12/21/02 3:32 pm |
| Barium | 18.8 | | 0.023 | 0.070 | mg/Kg-dry | 1 | 12/21/02 3:32 pm |
| Beryllium | ND | | 0.12 | 0.35 | mg/kg-dry | 1 | 12/24/02 11:19 am |
| Cadmium | ND | | 0.023 | 0.070 | mg/Kg-dry | 1 | 12/21/02 3:32 pm |
| Calcium | 83,300 J+ | S | 610 | 1,800 | mg/kg-dry | 1000 | 12/26/02 1:17 pm |
| Chromium | 4.33 | | 0.069 | 0.21 | mg/Kg-dry | 1 | 12/21/02 3:32 pm |
| Cobalt | 2.27 | | 0.069 | 0.21 | mg/kg-dry | 1 | 12/24/02 11:19 am |
| Copper | 64.1 | | 0.069 | 0.21 | mg/Kg-dry | 1 | 12/23/02 2:07 pm |
| Iron | 15,700 | | 22 | 66 | mg/Kg-dry | 50 | 12/27/02 12:47 pm |
| Lead | 44.0 | | 0.21 | 0.63 | mg/Kg-dry | 1 | 12/21/02 3:32 pm |
| Magnesium | 37,500 | | 140 | 420 | mg/Kg-dry | 500 | 12/27/02 1:19 pm |
| Manganese | 99.4 | | 0.093 | 0.28 | mg/Kg-dry | 1 | 12/23/02 2:07 pm |
| Nickel | 6.52 | | 0.12 | 0.35 | mg/Kg-dry | 1 | 12/21/02 3:32 pm |
| Potassium | 570 | | 30 | 88 | mg/Kg-dry | 10 | 12/23/02 4:11 pm |
| Selenium | ND | | 0.30 | 0.90 | mg/Kg-dry | 1 | 12/21/02 3:32 pm |
| Silver | ~~ND~~ UJ | | 0.023 | 0.070 | mg/Kg-dry | 1 | 12/21/02 3:32 pm |
| Sodium | 1,060 J+ | S | 0 | 0 | mg/Kg-dry | 50 | 12/27/02 12:47 pm |
| Thallium | ND | | 0.25 | 0.76 | mg/Kg-dry | 1 | 12/27/02 11:37 am |
| Vanadium | 5.23 | | 0.21 | 0.63 | mg/Kg-dry | 1 | 12/27/02 11:37 am |
| Zinc | 69.6 | | 0.16 | 0.49 | mg/Kg-dry | 1 | 12/23/02 2:07 pm |
| **VOLATILE ORGANIC COMPOUNDS** | | | Method: SW8260B | | | | Analyst: BK |
| 1,1,1-Trichloroethane | ND | Q | 0.322 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| 1,1,2,2-Tetrachloroethane | ND | Q | 0.480 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| 1,1,2-Trichloroethane | ND | Q | 1.00 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| 1,1-Dichloroethane | ND | Q | 0.348 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| 1,1-Dichloroethene | ND | Q | 0.745 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| 1,2-Dichloroethane | ND | Q | 0.423 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| 1,2-Dichloropropane | ND | Q | 0.651 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| 2-Butanone | ND | Q | 2.19 | 7.25 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| 2-Hexanone | ND | Q | 1.08 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| 4-Methyl-2-pentanone | ND | Q | 0.884 | 7.25 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Acetone | 60.9 | Q | 4.29 | 7.25 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Benzene | ND | Q | 0.459 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Bromodichloromethane | ND | Q | 0.293 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Bromoform | ND | Q | 0.726 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Bromomethane | ND | Q | 3.55 | 7.25 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Carbon disulfide | 9.51 | Q | 0.577 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Carbon tetrachloride | ND | Q | 0.555 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Chlorobenzene | ND | Q | 0.523 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |

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MDL-Continued

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Chloroethane | ND | Q | 5.83 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Chloroform | ND | Q | 0.325 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Chloromethane | ND | Q | 1.59 | 7.25 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| cis-1,2-Dichloroethene | ND | Q | 0.415 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| cis-1,3-Dichloropropene | ND | Q | 0.422 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Dibromochloromethane | ND | Q | 0.496 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Ethylbenzene | ND | Q | 0.545 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| m,p-Xylene | 1.5 | JQ | 1.23 | 2.90 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Methyl tert-butyl ether | ND | Q | 0.380 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Methylene chloride | ND | Q | 0.571 | 7.25 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| o-Xylene | ND | Q | 0.790 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Styrene | ND | Q | 0.491 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Tetrachloroethene | 1.4 | JQ | 1.16 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Toluene | ND | Q | 0.555 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| trans-1,2-Dichloroethene | ND | Q | 0.786 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| trans-1,3-Dichloropropene | ND | Q | 0.507 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Trichloroethene | 0.91 | JQ | 0.751 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Vinyl chloride | ND | Q | 0.613 | 1.45 | µg/Kg-dry | 1.36 | 12/26/02 10:03 pm |
| Surr: 4-Bromofluorobenzene | 63.2 | SQ | 0 | 70-130 | %REC | 1.36 | 12/26/02 10:03 pm |
| Surr: Dibromofluoromethane | 110 | Q | 0 | 70-130 | %REC | 1.36 | 12/26/02 10:03 pm |
| Surr: Toluene-d8 | 68.8 | SQ | 0 | 70-130 | %REC | 1.36 | 12/26/02 10:03 pm |

**SEMIVOLATILE ORGANICS, BY GCMS SIM** Method: SW8270C Analyst: DP

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 49 | J | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Acenaphthylene | ND | | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Anthracene | 73 | J | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Benzo(a)anthracene | 285 | | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Benzo(a)pyrene | 247 | | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Benzo(b)fluoranthene | 302 | | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Benzo(g,h,i)perylene | 151 | | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Benzo(k)fluoranthene | 110 | J | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Chrysene | 271 | | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Dibenzo(a,h)anthracene | ND | | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Fluoranthene | 453 | | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Fluorene | ND | | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Indeno(1,2,3-cd)pyrene | 120 | J | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Naphthalene | 84 | J | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Phenanthrene | 874 | | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Pyrene | 616 | | 42.6 | 128 | µg/Kg-dry | 1 | 12/19/02 9:32 pm |
| Surr: 2-Fluorobiphenyl | 87.8 | | 0 | 70-130 | %REC | 1 | 12/19/02 9:32 pm |
| Surr: 4-Terphenyl-d14 | 54.5 | S | 0 | 70-130 | %REC | 1 | 12/19/02 9:32 pm |
| Surr: Nitrobenzene-d5 | 88.3 | | 0 | 70-130 | %REC | 1 | 12/19/02 9:32 pm |

**CYANIDE, TOTAL** Method: SW9014 Analyst: CA

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Cyanide | 0.32 | | 0.11 | 0.11 | mg/Kg-dry | 10 | 12/26/02 12:00 am |

**MERCURY BY CVAA** Method: SW7471A Analyst: DZ

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mercury | 1.20 | | 0.0085 | 0.026 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |

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**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*

**Project:** 76th and Parrell

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **LEAD BY GFAA, TCLP** | | Method: | SW1311/7421 | | | | Analyst: DZ |
| Lead | 0.0119 | | 0.002 | 0.006 | mg/L | 1 | 12/26/02 6:05 pm |
| **PH (IN LABORATORY)** | | Method: | SW9045C | | | | Analyst: EM |
| pH | 7.71 | | 0 | 0 | pH Units | 1 | 12/19/02 10:19 am |
| **PERCENT MOISTURE** | | Method: | D2216 | | | | Analyst: BE |
| Percent Moisture | 6.17 | | 0 | 0 | wt% | 1 | 12/23/02 4:45 pm |

TBS
1/29/03

**Qualifiers:**

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**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-08 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 2:15:00 PM
**Client Sample ID:** SB-104 (7-11) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | Method: | SW6010B | | | | Analyst: RA |
| Aluminum | 1,620 J+ S | | 210 | 650 | mg/kg-dry | 50 | 12/26/02 1:31 pm |
| Antimony | ND | | 0.29 | 0.85 | mg/kg-dry | 1 | 12/24/02 11:25 am |
| Arsenic | ND | | 0.49 | 1.4 | mg/Kg-dry | 1 | 12/21/02 3:39 pm |
| Barium | 5.35 | | 0.029 | 0.085 | mg/Kg-dry | 1 | 12/21/02 3:39 pm |
| Beryllium | ND | | 0.14 | 0.43 | mg/kg-dry | 1 | 12/24/02 11:25 am |
| Cadmium | ND | | 0.029 | 0.085 | mg/Kg-dry | 1 | 12/21/02 3:39 pm |
| Calcium | 72,500 J+ S | | 740 | 2,200 | mg/kg-dry | 1000 | 12/26/02 1:21 pm |
| Chromium | 2.87 | | 0.085 | 0.26 | mg/Kg-dry | 1 | 12/21/02 3:39 pm |
| Cobalt | 1.89 | | 0.085 | 0.26 | mg/kg-dry | 1 | 12/24/02 11:25 am |
| Copper | 4.38 | | 0.085 | 0.26 | mg/Kg-dry | 1 | 12/23/02 2:42 pm |
| Iron | 4,860 | | 27 | 81 | mg/Kg-dry | 50 | 12/27/02 12:53 pm |
| Lead | 3.27 | | 0.25 | 0.77 | mg/Kg-dry | 1 | 12/21/02 3:39 pm |
| Magnesium | 32,300 | | 170 | 510 | mg/Kg-dry | 500 | 12/27/02 1:25 pm |
| Manganese | 171 | | 0.11 | 0.34 | mg/Kg-dry | 1 | 12/23/02 2:42 pm |
| Nickel | 3.33 | | 0.14 | 0.43 | mg/Kg-dry | 1 | 12/21/02 3:39 pm |
| Potassium | 314 | | 36 | 110 | mg/Kg-dry | 10 | 12/23/02 4:23 pm |
| Selenium | ND | | 0.38 | 1.1 | mg/Kg-dry | 1 | 12/21/02 3:39 pm |
| Silver | ~~ND~~ UJ | | 0.029 | 0.085 | mg/Kg-dry | 1 | 12/21/02 3:39 pm |
| Sodium | 865 J+ S | | 0 | 0 | mg/Kg-dry | 50 | 12/27/02 12:53 pm |
| Thallium | ND | | 0.31 | 0.94 | mg/Kg-dry | 1 | 12/27/02 11:44 am |
| Vanadium | 2.87 | | 0.26 | 0.77 | mg/Kg-dry | 1 | 12/27/02 11:44 am |
| Zinc | 11.1 | | 0.20 | 0.60 | mg/Kg-dry | 1 | 12/23/02 2:42 pm |
| **VOLATILE ORGANIC COMPOUNDS** | | Method: | SW8260B | | | | Analyst: BK |
| 1,1,1-Trichloroethane | ND | | 0.273 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| 1,1,2,2-Tetrachloroethane | ND | Q | 0.406 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| 1,1,2-Trichloroethane | ND | | 0.849 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| 1,1-Dichloroethane | ND | | 0.294 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| 1,1-Dichloroethene | ND | | 0.631 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| 1,2-Dichloroethane | ND | | 0.358 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| 1,2-Dichloropropane | ND | | 0.551 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| 2-Butanone | 2.6 | J | 1.85 | 6.13 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| 2-Hexanone | ND | | 0.914 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| 4-Methyl-2-pentanone | ND | | 0.748 | 6.13 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Acetone | 16.7 | | 3.63 | 6.13 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Benzene | 3.32 | | 0.389 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Bromodichloromethane | ND | | 0.248 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Bromoform | ND | | 0.615 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Bromomethane | ND | | 3.00 | 6.13 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Carbon disulfide | ND | | 0.488 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Carbon tetrachloride | ND | | 0.469 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Chlorobenzene | ND | | 0.443 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
MDL-Continuous
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*

**Project:** 76th and Parrell

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Chloroethane | ND | | 4.93 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Chloroform | 0.91 | J | 0.275 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Chloromethane | ND | | 1.35 | 6.13 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| cis-1,2-Dichloroethene | ND | | 0.350 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| cis-1,3-Dichloropropene | ND | | 0.357 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Dibromochloromethane | ND | | 0.419 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Ethylbenzene | 0.94 | J | 0.461 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| m,p-Xylene | 1.3 | | 1.05 | 2.45 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Methyl tert-butyl ether | ND | | 0.322 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Methylene chloride | ND | | 0.483 | 6.13 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| o-Xylene | ND | | 0.668 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Styrene | ND | | 0.416 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Tetrachloroethene | ND | | 0.985 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Toluene | 3.70 | | 0.469 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| trans-1,2-Dichloroethene | ND | | 0.665 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| trans-1,3-Dichloropropene | ND | | 0.429 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Trichloroethene | ND | | 0.636 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Vinyl chloride | ND | | 0.519 | 1.23 | µg/Kg-dry | 0.98 | 12/20/02 12:34 am |
| Surr: 4-Bromofluorobenzene | 85.0 | | 0 | 70-130 | %REC | 0.98 | 12/20/02 12:34 am |
| Surr: Dibromofluoromethane | 116 | | 0 | 70-130 | %REC | 0.98 | 12/20/02 12:34 am |
| Surr: Toluene-d8 | 89.0 | | 0 | 70-130 | %REC | 0.98 | 12/20/02 12:34 am |

**SEMIVOLATILE ORGANICS, BY GCMS SIM** Method: SW8270C Analyst: DP

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND UJ | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Acenaphthylene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Anthracene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Benzo(a)anthracene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Benzo(a)pyrene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Benzo(b)fluoranthene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Benzo(g,h,i)perylene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Benzo(k)fluoranthene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Chrysene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Dibenzo(a,h)anthracene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Fluoranthene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Fluorene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Indeno(1,2,3-cd)pyrene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Naphthalene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Phenanthrene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Pyrene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/19/02 8:59 pm |
| Surr: 2-Fluorobiphenyl | 66.1 | S | 0 | 70-130 | %REC | 1 | 12/19/02 8:59 pm |
| Surr: 4-Terphenyl-d14 | 60.3 | S | 0 | 70-130 | %REC | 1 | 12/19/02 8:59 pm |
| Surr: Nitrobenzene-d5 | 60.3 | S | 0 | 70-130 | %REC | 1 | 12/19/02 8:59 pm |

**CYANIDE, TOTAL** Method: SW9014 Analyst: CA

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Cyanide | ND | | 0.13 | 0.13 | mg/Kg-dry | 10 | 12/26/02 12:00 am |

**MERCURY BY CVAA** Method: SW7471A Analyst: DZ

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.010 | 0.030 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |

TBS 1/29/03

**Qualifiers:**
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E - Value above quantitation range
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**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **PH (IN LABORATORY)** | | Method: | SW9045C | | | | Analyst: EM |
| pH | 8.07 | | 0 | 0 | pH Units | 1 | 12/19/02 10:19 am |
| **PERCENT MOISTURE** | | Method: | D2216 | | | | Analyst: BE |
| Percent Moisture | 20.1 | | 0 | 0 | wt% | 1 | 12/23/02 4:45 pm |

**Lab Sample ID:** 02120730-09 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 2:30:00 PM
**Client Sample ID:** SB-105 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ~~ND~~ UJ | | 0.44 | 1.3 | mg/Kg-dry | 1 | 12/21/02 3:47 pm |
| Barium | 93.8 | | 0.026 | 0.078 | mg/Kg-dry | 1 | 12/21/02 3:47 pm |
| Cadmium | ~~ND~~ UJ | | 0.026 | 0.078 | mg/Kg-dry | 1 | 12/21/02 3:47 pm |
| Chromium | 5.97 J- | | 0.078 | 0.23 | mg/Kg-dry | 1 | 12/21/02 3:47 pm |
| Lead | 101 J+ | | 0.23 | 0.70 | mg/Kg-dry | 1 | 12/21/02 3:47 pm |
| Selenium | ~~ND~~ UJ | | 0.34 | 1.0 | mg/Kg-dry | 1 | 12/21/02 3:47 pm |
| Silver | ND UJ | | 0.026 | 0.078 | mg/Kg-dry | 1 | 12/21/02 3:47 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DP |
| Acenaphthene | 92 | J | 43.7 | 131 | µg/Kg-dry | 1 | 12/20/02 5:27 am |
| Acenaphthylene | 326 | | 43.7 | 131 | µg/Kg-dry | 1 | 12/20/02 5:27 am |
| Anthracene | 1,710 | | 43.7 | 131 | µg/Kg-dry | 1 | 12/20/02 5:27 am |
| Benzo(a)anthracene | 4,210 | | 43.7 | 131 | µg/Kg-dry | 1 | 12/20/02 5:27 am |
| Benzo(a)pyrene | 2,600 | | 43.7 | 131 | µg/Kg-dry | 1 | 12/20/02 5:27 am |
| Benzo(b)fluoranthene | 4,340 | | 43.7 | 131 | µg/Kg-dry | 1 | 12/20/02 5:27 am |
| Benzo(g,h,i)perylene | 1,310 | | 43.7 | 131 | µg/Kg-dry | 1 | 12/20/02 5:27 am |
| Benzo(k)fluoranthene | 1,350 | | 43.7 | 131 | µg/Kg-dry | 1 | 12/20/02 5:27 am |
| Chrysene | 3,530 | | 43.7 | 131 | µg/Kg-dry | 1 | 12/20/02 5:27 am |
| Dibenzo(a,h)anthracene | 431 | | 43.7 | 131 | µg/Kg-dry | 1 | 12/20/02 5:27 am |
| Fluoranthene | 10,100 | | 219 | 656 | µg/Kg-dry | 5 | 12/24/02 11:54 am |
| Fluorene | 156 | | 43.7 | 131 | µg/Kg-dry | 1 | 12/20/02 5:27 am |
| Indeno(1,2,3-cd)pyrene | 1,550 | | 43.7 | 131 | µg/Kg-dry | 1 | 12/20/02 5:27 am |
| Naphthalene | 286 | | 43.7 | 131 | µg/Kg-dry | 1 | 12/20/02 5:27 am |
| Phenanthrene | 3,170 | | 43.7 | 131 | µg/Kg-dry | 1 | 12/20/02 5:27 am |
| Pyrene | 7,330 | | 219 | 656 | µg/Kg-dry | 5 | 12/24/02 11:54 am |
| Surr: 2-Fluorobiphenyl | 81.8 | | 0 | 70-130 | %REC | 1 | 12/20/02 5:27 am |
| Surr: 4-Terphenyl-d14 | 50.3 | S | 0 | 70-130 | %REC | 1 | 12/20/02 5:27 am |
| Surr: Nitrobenzene-d5 | 82.7 | | 0 | 70-130 | %REC | 1 | 12/20/02 5:27 am |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | 0.0857 | | 0.0087 | 0.026 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: EM |
| pH | 8.15 | | 0 | 0 | pH Units | 1 | 12/19/02 10:19 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 8.52 | | 0 | 0 | wt% | 1 | 12/23/02 4:45 pm |

TB 1/29/03

**Qualifiers:**
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R - RPD outside accepted recovery limits
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**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*

**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-10 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 2:35:00 PM

**Client Sample ID:** SB=105 (7-11) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ~~ND~~ UJ | | 0.55 | 1.6 | mg/Kg-dry | 1 | 12/21/02 3:54 pm |
| Barium | 3.91 | | 0.032 | 0.096 | mg/Kg-dry | 1 | 12/21/02 3:54 pm |
| Cadmium | ~~ND~~ UJ | | 0.032 | 0.096 | mg/Kg-dry | 1 | 12/21/02 3:54 pm |
| Chromium | 3.26 J- | | 0.096 | 0.29 | mg/Kg-dry | 1 | 12/21/02 3:54 pm |
| Lead | 4.13 J+ | | 0.29 | 0.86 | mg/Kg-dry | 1 | 12/21/02 3:54 pm |
| Selenium | ND UJ | | 0.41 | 1.2 | mg/Kg-dry | 1 | 12/21/02 3:54 pm |
| Silver | ND UJ | | 0.032 | 0.096 | mg/Kg-dry | 1 | 12/21/02 3:54 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DP |
| Acenaphthene | ND UJ | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Acenaphthylene | ND | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Anthracene | ND | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Benzo(a)anthracene | ND | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Benzo(a)pyrene | ND | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Benzo(b)fluoranthene | ND | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Benzo(g,h,i)perylene | ND | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Benzo(k)fluoranthene | ND | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Chrysene | ND | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Dibenzo(a,h)anthracene | ND | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Fluoranthene | ND | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Fluorene | ND | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Indeno(1,2,3-cd)pyrene | ND | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Naphthalene | ND | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Phenanthrene | ND | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Pyrene | ND | | 51.1 | 153 | µg/Kg-dry | 1 | 12/20/02 2:15 am |
| Surr: 2-Fluorobiphenyl | 65.0 | S | 0 | 70-130 | %REC | 1 | 12/20/02 2:15 am |
| Surr: 4-Terphenyl-d14 | 62.0 | S | 0 | 70-130 | %REC | 1 | 12/20/02 2:15 am |
| Surr: Nitrobenzene-d5 | 67.9 | S | 0 | 70-130 | %REC | 1 | 12/20/02 2:15 am |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | ND | | 0.010 | 0.031 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: EM |
| pH | 8.15 | | 0 | 0 | pH Units | 1 | 12/19/02 10:19 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 21.7 | | 0 | 0 | wt% | 1 | 12/23/02 4:45 pm |

TB 5
1/29/03

**Qualifiers:**
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E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-11 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 2:45:00 PM
**Client Sample ID:** SB-106 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ~~ND~~ UJ | | 0.43 | 1.3 | mg/Kg-dry | 1 | 12/21/02 4:01 pm |
| Barium | 207 | | 0.025 | 0.076 | mg/Kg-dry | 1 | 12/21/02 4:01 pm |
| Cadmium | ~~ND~~ UJ | | 0.025 | 0.076 | mg/Kg-dry | 1 | 12/21/02 4:01 pm |
| Chromium | 12.0 J- | | 0.075 | 0.23 | mg/Kg-dry | 1 | 12/21/02 4:01 pm |
| Lead | 315 J+ | | 0.22 | 0.68 | mg/Kg-dry | 1 | 12/21/02 4:01 pm |
| Selenium | ~~ND~~ UJ | | 0.33 | 0.98 | mg/Kg-dry | 1 | 12/21/02 4:01 pm |
| Silver | ND UJ | | 0.025 | 0.076 | mg/Kg-dry | 1 | 12/21/02 4:01 pm |
| **VOLATILE ORGANIC COMPOUNDS** | | | Method: SW8260B | | | | Analyst: BK |
| 1,1,1-Trichloroethane | UJ ND ~~UJ~~ TBS | Q | 0.297 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| 1,1,2,2-Tetrachloroethane | ND | Q | 0.443 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| 1,1,2-Trichloroethane | ND | Q | 0.927 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| 1,1-Dichloroethane | ND | Q | 0.322 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| 1,1-Dichloroethene | ND | Q | 0.689 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| 1,2-Dichloroethane | ND | Q | 0.391 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| 1,2-Dichloropropane | ND | Q | 0.602 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| 2-Butanone | J 4.8 ~~J~~ | JQ | 2.02 | 6.70 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| 2-Hexanone | UJ ND ~~UJ~~ | Q | 0.998 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| 4-Methyl-2-pentanone | UJ ND ~~UJ~~ | Q | 0.817 | 6.70 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Acetone | J 102 ~~J~~ | Q | 3.97 | 6.70 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Benzene | J 0.95 ~~J~~ | JQ | 0.425 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Bromodichloromethane | UJ ND ~~UJ~~ | Q | 0.271 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Bromoform | UJ ND ~~UJ~~ | Q | 0.671 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Bromomethane | UJ ND ~~UJ~~ | Q | 3.28 | 6.70 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Carbon disulfide | J 6.63 ~~J~~ | Q | 0.533 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Carbon tetrachloride | UJ ND ~~UJ~~ | Q | 0.513 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Chlorobenzene | ND | Q | 0.484 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Chloroethane | ND | Q | 5.39 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Chloroform | ND | Q | 0.300 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Chloromethane | ND | Q | 1.47 | 6.70 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| cis-1,2-Dichloroethene | ND | Q | 0.383 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| cis-1,3-Dichloropropene | ND | Q | 0.390 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Dibromochloromethane | ND | Q | 0.458 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Ethylbenzene | J 1.2 ~~J~~ | JQ | 0.504 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| m,p-Xylene | UJ 4.84 ~~J~~ | Q | 1.14 | 2.68 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Methyl tert-butyl ether | UJ ~~ND~~ ~~UJ~~ | Q | 0.351 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Methylene chloride | UJ ~~ND~~ | Q | 0.528 | 6.70 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| o-Xylene | J 2.32 ~~J~~ | Q | 0.730 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Styrene | UJ ~~ND~~ ~~UJ~~ | Q | 0.454 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Tetrachloroethene | J 3.93 ~~J~~ | Q | 1.08 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| Toluene | J 1.77 ~~J~~ | Q | 0.513 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |
| trans-1,2-Dichloroethene | UJ ~~ND~~ ~~UJ~~ | Q | 0.726 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 pm |

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* - Value exceeds Maximum Contaminant Level
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ~~ND~~ UJ | Q | 0.469 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 | pm |
| Trichloroethene | 2.25 J | Q | 0.694 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 | pm |
| Vinyl chloride | ~~ND~~ UJ | Q | 0.567 | 1.34 | µg/Kg-dry | 1.22 | 12/27/02 2:33 | pm |
| Surr: 4-Bromofluorobenzene | 64.0 J | SQ | 0 | 70-130 | %REC | 1.22 | 12/27/02 2:33 | pm |
| Surr: Dibromofluoromethane | 129 J | Q | 0 | 70-130 | %REC | 1.22 | 12/27/02 2:33 | pm |
| Surr: Toluene-d8 | 78.1 J | Q | 0 | 70-130 | %REC | 1.22 | 12/27/02 2:33 | pm |

**SEMIVOLATILE ORGANICS (BNAS)** TBS Method: SW8270C Analyst: DP

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND ~~UJ~~ TBS | | 375 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 1,2-Dichlorobenzene | ND | | 690 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 1,3-Dichlorobenzene | ND | | 356 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 1,4-Dichlorobenzene | ND | | 324 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 2,4,5-Trichlorophenol | ND | | 265 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 2,4,6-Trichlorophenol | ND | | 278 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 2,4-Dichlorophenol | ND | | 282 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 2,4-Dimethylphenol | ND | | 325 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 2,4-Dinitrophenol | ND | | 223 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 2,4-Dinitrotoluene | ND | | 158 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 2,6-Dinitrotoluene | ND | | 309 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 2-Chloronaphthalene | ND | | 208 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 2-Chlorophenol | ND | | 725 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 2-Methylnaphthalene | 1,010 J | | 277 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 2-Nitroaniline | ND UJ | | 139 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 2-Nitrophenol | ND | | 188 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 3,3-Dichlorobenzidine | ND | | 258 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 3-Nitroaniline | ND | | 173 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 4,6-Dinitro-2-methylphenol | ND | | 157 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 4-Bromophenyl phenyl ether | ND | | 109 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 4-Chloro-3-methylphenol | ND | | 405 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 4-Chloroaniline | ND | | 155 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 4-Chlorophenyl phenyl ether | ND | | 121 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 4-Nitroaniline | ND | | 218 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| 4-Nitrophenol | * ND UJ | S | 158 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| Bis(2-chloroethoxy)methane | ND | | 350 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| Bis(2-chloroethyl)ether | ND | | 628 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| Bis(2-chloroisopropyl)ether | ND | | 628 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| Bis(2-ethylhexyl)phthalate | ND | Q | 734 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| Butyl benzyl phthalate | ND | Q | 315 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| Carbazole | 6,100 J | | 734 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| Di-n-butyl phthalate | ND UJ | | 353 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| Di-n-octyl phthalate | ND UJ | Q | 199 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| Dibenzofuran | 2,630 J | | 136 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| Diethyl phthalate | ND UJ | | 166 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| Dimethyl phthalate | ND | | 221 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| Hexachlorobutadiene | ND | | 400 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| Hexachlorocyclopentadiene | ND | | 363 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| Hexachloroethane | ND | | 426 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |
| Isophorone | ND | | 188 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 | pm |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
MDL-Continued
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

TBS 1/29/03
* BNA only qualified

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| m,p-Cresol | ND UJ | | 813 | 1,470 | µg/Kg-dry | 1 | 12/27/02 3:43 pm |
| N-Nitrosodi-n-propylamine | ND | | 359 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 pm |
| N-Nitrosodiphenylamine | ND | | 173 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 pm |
| Nitrobenzene | ND | | 470 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 pm |
| o-Cresol | ND | | 242 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 pm |
| Pentachlorophenol | * ND UJ | S | 132 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 pm |
| Phenol | 290 J | | 168 | 734 | µg/Kg-dry | 1 | 12/27/02 3:43 pm |
| Surr: 2,4,6-Tribromophenol | 93.5 | | 0 | 20-117 | %REC | 1 | 12/27/02 3:43 pm |
| Surr: 2-Fluorobiphenyl | 86.3 | | 0 | 47-128 | %REC | 1 | 12/27/02 3:43 pm |
| Surr: 2-Fluorophenol | 75.8 | | 0 | 41-108 | %REC | 1 | 12/27/02 3:43 pm |
| Surr: 4-Terphenyl-d14 | 103 | Q | 0 | 5-131 | %REC | 1 | 12/27/02 3:43 pm |
| Surr: Nitrobenzene-d5 | 83.9 | | 0 | 32-120 | %REC | 1 | 12/27/02 3:43 pm |
| Surr: Phenol-d5 | 74.6 | | 0 | 52-116 | %REC | 1 | 12/27/02 3:43 pm |

**SEMIVOLATILE ORGANICS, BY GCMS SIM** Method: SW8270C Analyst: DP

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 5,400 J | J | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Acenaphthylene | 35,900 J | | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Anthracene | 27,100 J | | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Benzo(a)anthracene | 92,400 J | | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Benzo(a)pyrene | 106,000 J | | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Benzo(b)fluoranthene | 119,000 J | | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Benzo(g,h,i)perylene | 99,200 J | | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Benzo(k)fluoranthene | 46,300 J | | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Chrysene | 85,400 J | | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Dibenzo(a,h)anthracene | 17,100 J | | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Fluoranthene | 232,000 J | | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Fluorene | 13,000 J | J | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Hexachlorobenzene | ND UJ | | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Indeno(1,2,3-cd)pyrene | 98,900 J | | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Naphthalene | 25,000 J | | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Phenanthrene | 217,000 J | | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Pyrene | 210,000 J | | 4,430 | 13,300 | µg/Kg-dry | 100 | 12/20/02 6:29 am |
| Surr: 2-Fluorobiphenyl | 81.0 | | 0 | 70-130 | %REC | 100 | 12/20/02 6:29 am |
| Surr: 4-Terphenyl-d14 | 54.8 | S | 0 | 70-130 | %REC | 100 | 12/20/02 6:29 am |
| Surr: Nitrobenzene-d5 | 160 | S | 0 | 70-130 | %REC | 100 | 12/20/02 6:29 am |

**MERCURY BY CVAA** Method: SW7471A Analyst: DZ

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mercury | 0.019 | J | 0.0088 | 0.026 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |

**PH (IN LABORATORY)** Method: SW9045C Analyst: EM

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| pH | 8.17 | | 0 | 0 | pH Units | 1 | 12/19/02 10:19 am |

**PERCENT MOISTURE** Method: D2216 Analyst: BE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 9.63 | | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

TBS
1/29/03

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* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

# Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**IENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*

**ject:** 76th and Parrell

**b Sample ID:** 02120730-12 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 2:53:00 PM

**ent Sample ID:** SB-106 (7-11) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **ETALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | UJ | 0.44 | 1.4 | mg/Kg-dry | 1 | 12/21/02 4:08 pm |
| arium | 4.63 | | 0.027 | 0.079 | mg/Kg-dry | 1 | 12/21/02 4:08 pm |
| Cadmium | ND | UJ | 0.027 | 0.079 | mg/Kg-dry | 1 | 12/21/02 4:08 pm |
| Chromium | 3.65 | J- | 0.080 | 0.24 | mg/Kg-dry | 1 | 12/21/02 4:08 pm |
| Lead | 5.24 | J+ | 0.24 | 0.71 | mg/Kg-dry | 1 | 12/21/02 4:08 pm |
| Selenium | ND | UJ | 0.34 | 1.0 | mg/Kg-dry | 1 | 12/21/02 4:08 pm |
| Silver | ND | UJ | 0.027 | 0.079 | mg/Kg-dry | 1 | 12/21/02 4:08 pm |
| **RGANOCHLORINE PESTICIDES** | | | Method: SW8081A | | | | Analyst: LA |
| 4,4-DDD | ND | | 2.53 | 7.58 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| 4,4-DDE | ND | | 5.05 | 15.2 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| 4,4-DDT | ND | S | 2.53 | 7.58 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| Aldrin | ND | | 5.05 | 15.2 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| alpha-BHC | ND | | 5.05 | 15.2 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| alpha-Chlordane | ND | | 3.79 | 11.4 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| beta-BHC | ND | | 7.58 | 22.7 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| Chlordane | ND | | 126 | 379 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| delta-BHC | ND | S | 2.53 | 7.58 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| Dieldrin | ND | | 15.2 | 45.5 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| Endosulfan I | ND | | 5.05 | 15.2 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| Endosulfan II | ND | | 3.79 | 11.4 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| Endosulfan sulfate | ND | | 5.05 | 15.2 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| Endrin | ND | | 5.05 | 15.2 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| Endrin aldehyde | ND | | 27.8 | 83.3 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| Endrin ketone | ND | | 2.53 | 7.58 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| gamma-BHC | ND | | 2.53 | 7.58 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| gamma-Chlordane | ND | | 5.05 | 15.2 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| Heptachlor | ND | | 1.26 | 3.79 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| Heptachlor epoxide | ND | | 7.58 | 22.7 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| Methoxychlor | ND | S | 32.8 | 98.5 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| Toxaphene | ND | | 253 | 758 | µg/Kg-dry | 1 | 12/21/02 10:42 pm |
| Surr: Tetrachloro-m-xylene | 68.6 | | 0 | 33.7-156 | %REC | 1 | 12/21/02 10:42 pm |
| **PCBS** | | | Method: SW8082 | | | | Analyst: LA |
| Aroclor 1016 | ND | | 126 | 379 | µg/Kg-dry | 1 | 12/20/02 2:06 am |
| Aroclor 1221 | ND | | 126 | 379 | µg/Kg-dry | 1 | 12/20/02 2:06 am |
| Aroclor 1232 | ND | | 126 | 379 | µg/Kg-dry | 1 | 12/20/02 2:06 am |
| Aroclor 1242 | ND | | 126 | 379 | µg/Kg-dry | 1 | 12/20/02 2:06 am |
| Aroclor 1248 | ND | | 126 | 379 | µg/Kg-dry | 1 | 12/20/02 2:06 am |
| Aroclor 1254 | ND | | 126 | 379 | µg/Kg-dry | 1 | 12/20/02 2:06 am |
| Aroclor 1260 | ND | | 126 | 379 | µg/Kg-dry | 1 | 12/20/02 2:06 am |
| Surr: Tetrachloro-m-xylene | 61.1 | | 0 | 33.7-156 | %REC | 1 | 12/20/02 2:06 am |

**Qualifiers:**

ND - Not Detected at the Method Detection Limit

J - Estimated or analyte detected below quantitation limit

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

## VOLATILE ORGANIC COMPOUNDS

Method: SW8260B Analyst: BK

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.264 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| 1,1,2,2-Tetrachloroethane | ND | | 0.393 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| 1,1,2-Trichloroethane | ND | | 0.821 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| 1,1-Dichloroethane | ND | | 0.285 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| 1,1-Dichloroethene | ND | | 0.610 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| 1,2-Dichloroethane | ND | | 0.346 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| 1,2-Dichloropropane | ND | | 0.533 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| 2-Butanone | ND | | 1.79 | 5.93 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| 2-Hexanone | ND | | 0.884 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| 4-Methyl-2-pentanone | ND | | 0.723 | 5.93 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Acetone | ND | | 3.51 | 5.93 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Benzene | 1.79 | | 0.376 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Bromodichloromethane | ND | | 0.240 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Bromoform | ND | | 0.595 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Bromomethane | ND | | 2.90 | 5.93 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Carbon disulfide | ND | | 0.472 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Carbon tetrachloride | ND | | 0.455 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Chlorobenzene | ND | | 0.428 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Chloroethane | ND | | 4.77 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Chloroform | 0.68 | J | 0.266 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Chloromethane | ND | | 1.30 | 5.93 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| cis-1,2-Dichloroethene | ND | | 0.340 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| cis-1,3-Dichloropropene | ND | | 0.346 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Dibromochloromethane | ND | | 0.405 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Ethylbenzene | ND | | 0.446 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| m,p-Xylene | ND | | 1.01 | 2.37 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Methyl tert-butyl ether | ND | | 0.311 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Methylene chloride | ND | | 0.467 | 5.93 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| o-Xylene | ND | | 0.646 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Styrene | ND | | 0.403 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Tetrachloroethene | ND | | 0.953 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Toluene | 1.28 | | 0.455 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| trans-1,2-Dichloroethene | ND | | 0.643 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| trans-1,3-Dichloropropene | ND | | 0.415 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Trichloroethene | ND | | 0.615 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Vinyl chloride | ND | | 0.503 | 1.19 | µg/Kg-dry | 0.94 | 12/20/02 | 1:59 | am |
| Surr: 4-Bromofluorobenzene | 93.8 | | 0 | 70-130 | %REC | 0.94 | 12/20/02 | 1:59 | am |
| Surr: Dibromofluoromethane | 102 | | 0 | 70-130 | %REC | 0.94 | 12/20/02 | 1:59 | am |
| Surr: Toluene-d8 | 95.1 | | 0 | 70-130 | %REC | 0.94 | 12/20/02 | 1:59 | am |

## SEMIVOLATILE ORGANICS, BY GCMS SIM

Method: SW8270C Analyst: DF

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 | 11:35 pm |
| Acenaphthylene | ND | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 | 11:35 pm |
| Anthracene | ND | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 | 11:35 pm |
| Benzo(a)anthracene | ND | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 | 11:35 pm |
| Benzo(a)pyrene | ND | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 | 11:35 pm |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
MDL-Continuous
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
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**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Benzo(b)fluoranthene | ND | | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 11:35 pm |
| Benzo(g,h,i)perylene | ND | | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 11:35 pm |
| Benzo(k)fluoranthene | ND | | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 11:35 pm |
| Chrysene | ND | | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 11:35 pm |
| Dibenzo(a,h)anthracene | ND | | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 11:35 pm |
| Fluoranthene | ND | | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 11:35 pm |
| Fluorene | ND | | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 11:35 pm |
| Indeno(1,2,3-cd)pyrene | ND | | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 11:35 pm |
| Naphthalene | ND | | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 11:35 pm |
| Phenanthrene | ND | | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 11:35 pm |
| Pyrene | ND | | 50.5 | 152 | µg/Kg-dry | 1 | 12/19/02 11:35 pm |
| Surr: 2-Fluorobiphenyl | 79.0 | | 0 | 70-130 | %REC | 1 | 12/19/02 11:35 pm |
| Surr: 4-Terphenyl-d14 | 69.0 | S | 0 | 70-130 | %REC | 1 | 12/19/02 11:35 pm |
| Surr: Nitrobenzene-d5 | 79.6 | | 0 | 70-130 | %REC | 1 | 12/19/02 11:35 pm |
| **MERCURY BY CVAA** | | Method: | SW7471A | | | | Analyst: DZ |
| Mercury | ND | | 0.010 | 0.030 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | Method: | SW9045C | | | | Analyst: EM |
| pH | 7.89 | | 0 | 0 | pH Units | 1 | 12/19/02 10:19 am |
| **PERCENT MOISTURE** | | Method: | D2216 | | | | Analyst: BE |
| Percent Moisture | 20.8 | | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

TBS
1/29/03

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-13 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 1:32:00 PM
**Client Sample ID:** SB-102 (0-3) DUP **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ~~ND~~ UJ | | 0.44 | 1.3 | mg/Kg-dry | 1 | 12/21/02 4:42 pm |
| Barium | 54.3 | | 0.026 | 0.078 | mg/Kg-dry | 1 | 12/24/02 9:14 am |
| Cadmium | ~~ND~~ UJ | | 0.026 | 0.078 | mg/Kg-dry | 1 | 12/21/02 4:42 pm |
| Chromium | 8.46 J- | | 0.077 | 0.23 | mg/Kg-dry | 1 | 12/21/02 4:42 pm |
| Lead | 127 J+ | | 0.23 | 0.70 | mg/Kg-dry | 1 | 12/21/02 4:42 pm |
| Selenium | ~~ND~~ UJ | | 0.34 | 1.0 | mg/Kg-dry | 1 | 12/24/02 9:14 am |
| Silver | ~~ND~~ UJ | | 0.026 | 0.078 | mg/Kg-dry | 1 | 12/21/02 4:42 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DP |
| Acenaphthene | 67 | J | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Acenaphthylene | ND | | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Anthracene | 120 | J | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Benzo(a)anthracene | 504 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Benzo(a)pyrene | 366 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Benzo(b)fluoranthene | 509 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Benzo(g,h,i)perylene | 226 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Benzo(k)fluoranthene | 184 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Chrysene | 414 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Dibenzo(a,h)anthracene | 48 | J | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Fluoranthene | 978 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Fluorene | ND | | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Indeno(1,2,3-cd)pyrene | 234 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Naphthalene | 209 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Phenanthrene | 1,040 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Pyrene | 902 | | 43.6 | 131 | µg/Kg-dry | 1 | 12/20/02 12:08 am |
| Surr: 2-Fluorobiphenyl | 81.8 | | 0 | 70-130 | %REC | 1 | 12/20/02 12:08 am |
| Surr: 4-Terphenyl-d14 | 53.2 | S | 0 | 70-130 | %REC | 1 | 12/20/02 12:08 am |
| Surr: Nitrobenzene-d5 | 78.6 | | 0 | 70-130 | %REC | 1 | 12/20/02 12:08 am |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | 0.726 | | 0.0087 | 0.026 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 8.34 | | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

TBS
1/29/03

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-14 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 1:37:00 PM
**Client Sample ID:** SB-102 (7-11) DUP **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | Method: | SW8270C | | | | Analyst: DP |
| Acenaphthene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Acenaphthylene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Anthracene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Benzo(a)anthracene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Benzo(a)pyrene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Benzo(b)fluoranthene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Benzo(g,h,i)perylene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Benzo(k)fluoranthene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Chrysene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Dibenzo(a,h)anthracene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Fluoranthene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Fluorene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Indeno(1,2,3-cd)pyrene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Naphthalene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Phenanthrene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Pyrene | ND | | 50.3 | 151 | µg/Kg-dry | 1 | 12/20/02 12:39 am |
| Surr: 2-Fluorobiphenyl | 80.0 | | 0 | 70-130 | %REC | 1 | 12/20/02 12:39 am |
| Surr: 4-Terphenyl-d14 | 69.5 | S | 0 | 70-130 | %REC | 1 | 12/20/02 12:39 am |
| Surr: Nitrobenzene-d5 | 73.1 | | 0 | 70-130 | %REC | 1 | 12/20/02 12:39 am |
| **PERCENT MOISTURE** | | Method: | D2216 | | | | Analyst: BE |
| Percent Moisture | 20.4 | | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
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B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-15 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 1:42:00 PM
**Client Sample ID:** SB-103 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANICS (BNAS)** | | Method: | SW8270C | | | | Analyst: DP |
| 1,2,4-Trichlorobenzene | ND | | 91.2 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 1,2-Dichlorobenzene | ND | | 168 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 1,3-Dichlorobenzene | ND | | 86.6 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 1,4-Dichlorobenzene | ND | | 78.8 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 2,4,5-Trichlorophenol | ND | | 64.5 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 2,4,6-Trichlorophenol | ND | | 67.7 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 2,4-Dichlorophenol | ND | | 68.8 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 2,4-Dimethylphenol | ND | | 79.2 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 2,4-Dinitrophenol | ND | | 54.2 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 2,4-Dinitrotoluene | ND | | 38.5 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 2,6-Dinitrotoluene | ND | | 75.2 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 2-Chloronaphthalene | ND | | 50.6 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 2-Chlorophenol | ND | | 176 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 2-Methylnaphthalene | 384 | | 67.4 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 2-Nitroaniline | ND | | 33.9 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 2-Nitrophenol | ND | | 45.7 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 3,3-Dichlorobenzidine | ND | | 62.8 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 3-Nitroaniline | ND | | 42.0 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 4,6-Dinitro-2-methylphenol | ND | | 38.2 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 4-Bromophenyl phenyl ether | ND | | 26.5 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 4-Chloro-3-methylphenol | ND | | 98.7 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 4-Chloroaniline | ND | | 37.8 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 4-Chlorophenyl phenyl ether | ND | | 29.5 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 4-Nitroaniline | ND | | 53.2 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| 4-Nitrophenol | ~~ND~~ UJ | S | 38.5 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| Bis(2-chloroethoxy)methane | ND | | 85.2 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| Bis(2-chloroethyl)ether | ND | | 153 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| Bis(2-chloroisopropyl)ether | ND | | 153 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| Bis(2-ethylhexyl)phthalate | ND | Q | 179 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| Butyl benzyl phthalate | ND | Q | 76.7 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| Carbazole | 518 | | 179 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| Di-n-butyl phthalate | ND | | 85.9 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| Di-n-octyl phthalate | ND | Q | 48.5 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| Dibenzofuran | 344 | | 33.2 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| Diethyl phthalate | ND | | 40.3 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| Dimethyl phthalate | ND | | 53.8 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| Hexachlorobutadiene | ND | | 97.3 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| Hexachlorocyclopentadiene | ND | | 88.5 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| Hexachloroethane | ND | | 104 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| Isophorone | ND | | 45.7 | 179 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |
| m,p-Cresol | ND | | 198 | 357 | µg/Kg-dry | 1 | 12/27/02 4:21 pm |

**Qualifiers:**
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* - Value exceeds Maximum Contaminant Level
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**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*

**Project:** 76th and Parrell

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| N-Nitrosodi-n-propylamine | ND | | 87.4 | 179 | µg/Kg-dry | 1 | 12/27/02 | 4:21 pm |
| N-Nitrosodiphenylamine | ND | | 42.0 | 179 | µg/Kg-dry | 1 | 12/27/02 | 4:21 pm |
| Nitrobenzene | ND | | 114 | 179 | µg/Kg-dry | 1 | 12/27/02 | 4:21 pm |
| *o-Cresol* | ND | | 58.8 | 179 | µg/Kg-dry | 1 | 12/27/02 | 4:21 pm |
| Pentachlorophenol | ~~ND~~ UJ | S | 32.1 | 179 | µg/Kg-dry | 1 | 12/27/02 | 4:21 pm |
| Phenol | ND | | 41.0 | 179 | µg/Kg-dry | 1 | 12/27/02 | 4:21 pm |
| Surr: 2,4,6-Tribromophenol | 96.0 | | 0 | 20-117 | %REC | 1 | 12/27/02 | 4:21 pm |
| Surr: 2-Fluorobiphenyl | 80.8 | | 0 | 47-128 | %REC | 1 | 12/27/02 | 4:21 pm |
| Surr: 2-Fluorophenol | 63.1 | | 0 | 41-108 | %REC | 1 | 12/27/02 | 4:21 pm |
| Surr: 4-Terphenyl-d14 | 84.3 | Q | 0 | 5-131 | %REC | 1 | 12/27/02 | 4:21 pm |
| Surr: Nitrobenzene-d5 | 72.2 | | 0 | 32-120 | %REC | 1 | 12/27/02 | 4:21 pm |
| Surr: Phenol-d5 | 67.2 | | 0 | 52-116 | %REC | 1 | 12/27/02 | 4:21 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | Method: | SW8270C | | | | Analyst: | DH |
| Acenaphthene | 328 | | 42.8 | 128 | µg/Kg-dry | 1 | 12/26/02 | 8:26 pm |
| Acenaphthylene | ND | | 42.8 | 128 | µg/Kg-dry | 1 | 12/26/02 | 8:26 pm |
| Anthracene | 780 | | 42.8 | 128 | µg/Kg-dry | 1 | 12/26/02 | 8:26 pm |
| Benzo(a)anthracene | 2,520 | | 42.8 | 128 | µg/Kg-dry | 1 | 12/26/02 | 8:26 pm |
| Benzo(a)pyrene | 1,890 | | 42.8 | 128 | µg/Kg-dry | 1 | 12/26/02 | 8:26 pm |
| Benzo(b)fluoranthene | 2,640 | | 42.8 | 128 | µg/Kg-dry | 1 | 12/26/02 | 8:26 pm |
| Benzo(g,h,i)perylene | 1,120 | | 42.8 | 128 | µg/Kg-dry | 1 | 12/26/02 | 8:26 pm |
| Benzo(k)fluoranthene | 853 | | 42.8 | 128 | µg/Kg-dry | 1 | 12/26/02 | 8:26 pm |
| Chrysene | 1,940 | | 42.8 | 128 | µg/Kg-dry | 1 | 12/26/02 | 8:26 pm |
| Dibenzo(a,h)anthracene | 310 | | 42.8 | 128 | µg/Kg-dry | 1 | 12/26/02 | 8:26 pm |
| Fluoranthene | 5,390 | | 428 | 1,280 | µg/Kg-dry | 10 | 12/27/02 | 4:19 pm |
| Fluorene | 339 | | 42.8 | 128 | µg/Kg-dry | 1 | 12/26/02 | 8:26 pm |
| Hexachlorobenzene | ND | | 42.8 | 128 | µg/Kg-dry | 1 | 12/26/02 | 8:26 pm |
| Indeno(1,2,3-cd)pyrene | 1,220 | | 42.8 | 128 | µg/Kg-dry | 1 | 12/26/02 | 8:26 pm |
| Naphthalene | 143 | | 42.8 | 128 | µg/Kg-dry | 1 | 12/26/02 | 8:26 pm |
| Phenanthrene | 4,190 | | 428 | 1,280 | µg/Kg-dry | 10 | 12/27/02 | 4:19 pm |
| Pyrene | 4,190 | | 42.8 | 128 | µg/Kg-dry | 1 | 12/26/02 | 8:26 pm |
| Surr: 2-Fluorobiphenyl | 86.0 | | 0 | 70-130 | %REC | 1 | 12/26/02 | 8:26 pm |
| Surr: 4-Terphenyl-d14 | 87.6 | | 0 | 70-130 | %REC | 1 | 12/26/02 | 8:26 pm |
| Surr: Nitrobenzene-d5 | 92.1 | | 0 | 70-130 | %REC | 1 | 12/26/02 | 8:26 pm |
| **PERCENT MOISTURE** | | Method: | D2216 | | | | Analyst: | BE |
| Percent Moisture | 6.51 | | 0 | 0 | wt% | 1 | 12/24/02 | 12:30 pm |

TBS
1/29/03

**Qualifiers:**

ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-16 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 1:04:00 PM
**Client Sample ID:** SB-103 (7-11) DUP **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **ORGANOCHLORINE PESTICIDES** | | Method: | SW8081A | | | | Analyst: LA |
| 4,4-DDD | ND | | 2.49 | 7.47 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| 4,4-DDE | ND | | 4.98 | 14.9 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| 4,4-DDT | ND | S | 2.49 | 7.47 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| Aldrin | ND | | 4.98 | 14.9 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| alpha-BHC | ND | | 4.98 | 14.9 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| alpha-Chlordane | ND | | 3.74 | 11.2 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| beta-BHC | ND | | 7.47 | 22.4 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| Chlordane | ND | | 125 | 374 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| delta-BHC | ND | S | 2.49 | 7.47 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| Dieldrin | ND | | 14.9 | 44.8 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| Endosulfan I | ND | | 4.98 | 14.9 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| Endosulfan II | ND | | 3.74 | 11.2 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| Endosulfan sulfate | ND | | 4.98 | 14.9 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| Endrin | ND | | 4.98 | 14.9 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| Endrin aldehyde | ND | | 27.4 | 82.2 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| Endrin ketone | ND | | 2.49 | 7.47 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| gamma-BHC | ND | | 2.49 | 7.47 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| gamma-Chlordane | ND | | 4.98 | 14.9 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| Heptachlor | ND | | 1.25 | 3.74 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| Heptachlor epoxide | ND | | 7.47 | 22.4 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| Methoxychlor | ND | S | 32.4 | 97.1 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| Toxaphene | ND | | 249 | 747 | µg/Kg-dry | 1 | 12/21/02 11:27 pm |
| Surr: Tetrachloro-m-xylene | 67.7 | | 0 | 33.7-156 | %REC | 1 | 12/21/02 11:27 pm |
| **PCBS** | | Method: | SW8082 | | | | Analyst: LA |
| Aroclor 1016 | ND | | 126 | 377 | µg/Kg-dry | 1 | 12/20/02 2:51 am |
| Aroclor 1221 | ND | | 126 | 377 | µg/Kg-dry | 1 | 12/20/02 2:51 am |
| Aroclor 1232 | ND | | 126 | 377 | µg/Kg-dry | 1 | 12/20/02 2:51 am |
| Aroclor 1242 | ND | | 126 | 377 | µg/Kg-dry | 1 | 12/20/02 2:51 am |
| Aroclor 1248 | ND | | 126 | 377 | µg/Kg-dry | 1 | 12/20/02 2:51 am |
| Aroclor 1254 | ND | | 126 | 377 | µg/Kg-dry | 1 | 12/20/02 2:51 am |
| Aroclor 1260 | ND | | 126 | 377 | µg/Kg-dry | 1 | 12/20/02 2:51 am |
| Surr: Tetrachloro-m-xylene | 58.2 | | 0 | 33.7-156 | %REC | 1 | 12/20/02 2:51 am |
| **PERCENT MOISTURE** | | Method: | D2216 | | | | Analyst: BE |
| Percent Moisture | 20.5 | | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-17 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 2:30:00 PM
**Client Sample ID:** SB-105 (0-3) DUP **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ~~ND~~ | UJ | 0.47 | 1.4 | mg/Kg-dry | 1 | 12/21/02 4:48 pm |
| Barium | 69.8 | | 0.027 | 0.082 | mg/Kg-dry | 1 | 12/24/02 9:19 am |
| Cadmium | ~~ND~~ | UJ | 0.027 | 0.082 | mg/Kg-dry | 1 | 12/21/02 4:48 pm |
| Chromium | 5.83 | J- | 0.082 | 0.25 | mg/Kg-dry | 1 | 12/21/02 4:48 pm |
| Lead | 80.4 | J+ | 0.25 | 0.74 | mg/Kg-dry | 1 | 12/21/02 4:48 pm |
| Selenium | ~~ND~~ | UJ | 0.35 | 1.1 | mg/Kg-dry | 1 | 12/24/02 9:19 am |
| Silver | ~~ND~~ | UJ | 0.027 | 0.082 | mg/Kg-dry | 1 | 12/21/02 4:48 pm |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | 0.126 | | 0.0088 | 0.026 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 8.64 | | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

**Lab Sample ID:** 02120730-18 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 2:35:00 PM
**Client Sample ID:** SB-105 (7-11) DUP **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ~~ND~~ | UJ | 0.43 | 1.3 | mg/Kg-dry | 1 | 12/21/02 4:56 pm |
| Barium | 4.24 | | 0.025 | 0.076 | mg/Kg-dry | 1 | 12/24/02 9:25 am |
| Cadmium | ~~ND~~ | UJ | 0.025 | 0.076 | mg/Kg-dry | 1 | 12/21/02 4:56 pm |
| Chromium | 2.61 | J- | 0.076 | 0.23 | mg/Kg-dry | 1 | 12/21/02 4:56 pm |
| Lead | 3.33 | J+ | 0.22 | 0.68 | mg/Kg-dry | 1 | 12/21/02 4:56 pm |
| Selenium | ~~ND~~ | UJ | 0.33 | 0.99 | mg/Kg-dry | 1 | 12/24/02 9:25 am |
| Silver | ~~ND~~ | UJ | 0.025 | 0.076 | mg/Kg-dry | 1 | 12/21/02 4:56 pm |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | ND | | 0.011 | 0.032 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 24.0 | | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

TBS
1/29/03

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continued

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-19 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 3:12:00 PM
**Client Sample ID:** SB-107 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ~~ND~~ UJ | | 0.47 | 1.4 | mg/Kg-dry | 1 | 12/21/02 5:03 pm |
| Barium | 70.6 | | 0.028 | 0.083 | mg/Kg-dry | 1 | 12/24/02 9:30 am |
| Cadmium | ~~ND~~ UJ | | 0.028 | 0.083 | mg/Kg-dry | 1 | 12/21/02 5:03 pm |
| Chromium | 5.05 J- | | 0.083 | 0.25 | mg/Kg-dry | 1 | 12/21/02 5:03 pm |
| Lead | 42.3 J+ | | 0.25 | 0.74 | mg/Kg-dry | 1 | 12/21/02 5:03 pm |
| Selenium | ~~ND~~ UJ | | 0.35 | 1.1 | mg/Kg-dry | 1 | 12/24/02 9:30 am |
| Silver | ~~ND~~ UJ | | 0.028 | 0.083 | mg/Kg-dry | 1 | 12/21/02 5:03 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DP |
| Acenaphthene | ND | | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Acenaphthylene | ND | | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Anthracene | 186 | | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Benzo(a)anthracene | 772 | | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Benzo(a)pyrene | 630 | | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Benzo(b)fluoranthene | 759 | | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Benzo(g,h,i)perylene | 399 | | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Benzo(k)fluoranthene | 217 | | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Chrysene | 698 | | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Dibenzo(a,h)anthracene | 91 | J | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Fluoranthene | 1,500 | | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Fluorene | 50 | J | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Indeno(1,2,3-cd)pyrene | 379 | | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Naphthalene | 81 | J | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Phenanthrene | 1,100 | | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Pyrene | 1,630 | | 44.1 | 132 | µg/Kg-dry | 1 | 12/20/02 1:12 am |
| Surr: 2-Fluorobiphenyl | 79.8 | | 0 | 70-130 | %REC | 1 | 12/20/02 1:12 am |
| Surr: 4-Terphenyl-d14 | 57.6 | S | 0 | 70-130 | %REC | 1 | 12/20/02 1:12 am |
| Surr: Nitrobenzene-d5 | 76.5 | | 0 | 70-130 | %REC | 1 | 12/20/02 1:12 am |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | 0.0624 | | 0.0088 | 0.026 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: EM |
| pH | 8.27 | | 0 | 0 | pH Units | 1 | 12/19/02 10:19 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 9.35 | | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

TBS
1/29/03

**Qualifiers:**
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B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

# Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*

**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-20 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 3:20:00 PM

**Client Sample ID:** SB-107 (7-11) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ~~ND~~ UJ | | 0.50 | 1.5 | mg/Kg-dry | 1 | 12/21/02 5:10 pm |
| Barium | 4.63 | | 0.030 | 0.088 | mg/Kg-dry | 1 | 12/24/02 9:36 am |
| Cadmium | ~~ND~~ UJ | | 0.030 | 0.088 | mg/Kg-dry | 1 | 12/21/02 5:10 pm |
| Chromium | 3.60 J- | | 0.088 | 0.26 | mg/Kg-dry | 1 | 12/21/02 5:10 pm |
| Lead | 5.25 J+ | | 0.26 | 0.79 | mg/Kg-dry | 1 | 12/21/02 5:10 pm |
| Selenium | ~~ND~~ UJ | | 0.39 | 1.2 | mg/Kg-dry | 1 | 12/24/02 9:36 am |
| Silver | ~~ND~~ UJ | | 0.030 | 0.088 | mg/Kg-dry | 1 | 12/21/02 5:10 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DP |
| Acenaphthene | ND | | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Acenaphthylene | ND | | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Anthracene | ND | | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Benzo(a)anthracene | 60 | J | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Benzo(a)pyrene | ND | | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Benzo(b)fluoranthene | ND | | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Benzo(g,h,i)perylene | ND | | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Benzo(k)fluoranthene | ND | | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Chrysene | ND | | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Dibenzo(a,h)anthracene | ND | | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Fluoranthene | ND | | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Fluorene | ND | | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Indeno(1,2,3-cd)pyrene | ND | | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Naphthalene | ND | | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Phenanthrene | ND | | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Pyrene | ND | | 51.7 | 155 | µg/Kg-dry | 1 | 12/20/02 1:44 am |
| Surr: 2-Fluorobiphenyl | 77.1 | | 0 | 70-130 | %REC | 1 | 12/20/02 1:44 am |
| Surr: 4-Terphenyl-d14 | 63.8 | S | 0 | 70-130 | %REC | 1 | 12/20/02 1:44 am |
| Surr: Nitrobenzene-d5 | 77.7 | | 0 | 70-130 | %REC | 1 | 12/20/02 1:44 am |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | ND | | 0.010 | 0.031 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: EM |
| pH | 8.16 | | 0 | 0 | pH Units | 1 | 12/19/02 10:19 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 22.7 | | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

TBS
1/29/03

**Qualifiers:**

ND - Not Detected at the Method Detection Limit

J - Estimated or analyte detected below quantitation limit

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-21 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 3:30:00 PM
**Client Sample ID:** SB-108 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | Method: | SW6010B | | | | Analyst: RA |
| Aluminum | 5,930 J+ | S | 200 | 620 | mg/kg-dry | 50 | 12/26/02 1:36 pm |
| Antimony | ND | | 0.27 | 0.81 | mg/Kg-dry | 1 | 12/24/02 11:32 am |
| Arsenic | ND | | 0.46 | 1.4 | mg/Kg-dry | 1 | 12/21/02 5:18 pm |
| Barium | 67.7 | | 0.027 | 0.081 | mg/Kg-dry | 1 | 12/21/02 5:18 pm |
| Barium | 73.0 | | 0.027 | 0.081 | mg/Kg-dry | 1 | 12/24/02 9:42 am |
| Beryllium | 0.38 | J | 0.13 | 0.40 | mg/Kg-dry | 1 | 12/24/02 11:32 am |
| Cadmium | ND | | 0.027 | 0.081 | mg/Kg-dry | 1 | 12/21/02 5:18 pm |
| Calcium | 21,500 J+ | S | 700 | 2,100 | mg/kg-dry | 1000 | 12/26/02 1:52 pm |
| Chromium | 8.42 | | 0.081 | 0.24 | mg/Kg-dry | 1 | 12/21/02 5:18 pm |
| Cobalt | 0.798 | | 0.081 | 0.24 | mg/Kg-dry | 1 | 12/24/02 11:32 am |
| Copper | 286 | | 0.081 | 0.24 | mg/Kg-dry | 1 | 12/23/02 2:46 pm |
| Iron | 6,610 | | 26 | 77 | mg/Kg-dry | 50 | 12/27/02 12:59 pm |
| Lead | 319 | | 0.24 | 0.73 | mg/Kg-dry | 1 | 12/21/02 5:18 pm |
| Magnesium | 34,000 | | 160 | 490 | mg/Kg-dry | 500 | 12/27/02 1:31 pm |
| Manganese | 108 | | 0.11 | 0.32 | mg/Kg-dry | 1 | 12/23/02 2:46 pm |
| Nickel | 5.83 | | 0.13 | 0.40 | mg/Kg-dry | 1 | 12/21/02 5:18 pm |
| Potassium | 572 | | 34 | 100 | mg/Kg-dry | 10 | 12/23/02 4:26 pm |
| Selenium | ND | | 0.36 | 1.0 | mg/Kg-dry | 1 | 12/21/02 5:18 pm |
| Selenium | ND | | 0.36 | 1.0 | mg/Kg-dry | 1 | 12/24/02 9:42 am |
| Silver | ~~ND~~ UJ | | 0.027 | 0.081 | mg/Kg-dry | 1 | 12/21/02 5:18 pm |
| Sodium | 1,070 J+ | S | 140 | 400 | mg/Kg-dry | 50 | 12/27/02 12:59 pm |
| Thallium | 2.00 | | 0.30 | 0.89 | mg/Kg-dry | 1 | 12/27/02 11:50 am |
| Vanadium | 6.83 | | 0.24 | 0.73 | mg/Kg-dry | 1 | 12/27/02 11:50 am |
| Zinc | 129 | | 0.19 | 0.57 | mg/Kg-dry | 1 | 12/23/02 2:46 pm |
| **VOLATILE ORGANIC COMPOUNDS** | | Method: | SW8260B | | | | Analyst: BK |
| 1,1,1-Trichloroethane | ND | | 0.261 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| 1,1,2,2-Tetrachloroethane | ND | | 0.390 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| 1,1,2-Trichloroethane | ND | | 0.815 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| 1,1-Dichloroethane | ND | | 0.283 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| 1,1-Dichloroethene | ND | | 0.605 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| 1,2-Dichloroethane | ND | | 0.344 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| 1,2-Dichloropropane | ND | | 0.529 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| 2-Butanone | 2.6 | J | 1.78 | 5.89 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| 2-Hexanone | ND | | 0.877 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| 4-Methyl-2-pentanone | ND | | 0.718 | 5.89 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Acetone | 35.1 | | 3.48 | 5.89 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Benzene | ND | | 0.373 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Bromodichloromethane | ND | | 0.238 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Bromoform | ND | | 0.590 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Bromomethane | ND | | 2.88 | 5.89 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Carbon disulfide | 2.20 | | 0.469 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |

**Qualifiers:**
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* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | ND | | 0.451 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Chlorobenzene | ND | | 0.425 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Chloroethane | ND | | 4.73 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Chloroform | ND | | 0.264 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Chloromethane | ND | | 1.29 | 5.89 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| cis-1,2-Dichloroethene | ND | | 0.337 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| cis-1,3-Dichloropropene | ND | | 0.343 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Dibromochloromethane | ND | | 0.403 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Ethylbenzene | ND | | 0.443 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| m,p-Xylene | 1.8 | J | 1.00 | 2.35 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Methyl tert-butyl ether | ND | | 0.308 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Methylene chloride | ND | | 0.464 | 5.89 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| o-Xylene | 0.72 | J | 0.642 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Styrene | ND | | 0.399 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Tetrachloroethene | 1.71 | | 0.945 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Toluene | ND | | 0.451 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| trans-1,2-Dichloroethene | ND | | 0.638 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| trans-1,3-Dichloropropene | ND | | 0.412 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Trichloroethene | 0.85 | J | 0.610 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Vinyl chloride | ND | | 0.498 | 1.18 | µg/Kg-dry | 0.99 | 12/26/02 7:52 pm |
| Surr: 4-Bromofluorobenzene | 82.4 | | 0 | 70-130 | %REC | 0.99 | 12/26/02 7:52 pm |
| Surr: Dibromofluoromethane | 108 | | 0 | 70-130 | %REC | 0.99 | 12/26/02 7:52 pm |
| Surr: Toluene-d8 | 93.1 | | 0 | 70-130 | %REC | 0.99 | 12/26/02 7:52 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | Method: | SW8270C | | | | Analyst: DP |
| Acenaphthene | 632 | | 47.6 | 143 | µg/Kg-dry | 1 | 12/20/02 5:58 am |
| Acenaphthylene | 213 | | 47.6 | 143 | µg/Kg-dry | 1 | 12/20/02 5:58 am |
| Anthracene | 2,650 | | 47.6 | 143 | µg/Kg-dry | 1 | 12/20/02 5:58 am |
| Benzo(a)anthracene | 8,080 | | 238 | 713 | µg/Kg-dry | 5 | 12/24/02 12:24 pm |
| Benzo(a)pyrene | 5,790 | | 238 | 713 | µg/Kg-dry | 5 | 12/24/02 12:24 pm |
| Benzo(b)fluoranthene | 8,530 | | 238 | 713 | µg/Kg-dry | 5 | 12/24/02 12:24 pm |
| Benzo(g,h,i)perylene | 3,240 | | 47.6 | 143 | µg/Kg-dry | 1 | 12/20/02 5:58 am |
| Benzo(k)fluoranthene | 2,250 | | 47.6 | 143 | µg/Kg-dry | 1 | 12/20/02 5:58 am |
| Chrysene | 6,850 | | 238 | 713 | µg/Kg-dry | 5 | 12/24/02 12:24 pm |
| Dibenzo(a,h)anthracene | 887 | | 47.6 | 143 | µg/Kg-dry | 1 | 12/20/02 5:58 am |
| Fluoranthene | 16,900 | | 238 | 713 | µg/Kg-dry | 5 | 12/24/02 12:24 pm |
| Fluorene | 721 | | 47.6 | 143 | µg/Kg-dry | 1 | 12/20/02 5:58 am |
| Indeno(1,2,3-cd)pyrene | 3,290 | | 47.6 | 143 | µg/Kg-dry | 1 | 12/20/02 5:58 am |
| Naphthalene | 366 | | 47.6 | 143 | µg/Kg-dry | 1 | 12/20/02 5:58 am |
| Phenanthrene | 17,100 | | 238 | 713 | µg/Kg-dry | 5 | 12/24/02 12:24 pm |
| Pyrene | 15,900 | | 238 | 713 | µg/Kg-dry | 5 | 12/24/02 12:24 pm |
| Surr: 2-Fluorobiphenyl | 85.0 | | 0 | 70-130 | %REC | 1 | 12/20/02 5:58 am |
| Surr: 4-Terphenyl-d14 | 59.1 | S | 0 | 70-130 | %REC | 1 | 12/20/02 5:58 am |
| Surr: Nitrobenzene-d5 | 86.0 | | 0 | 70-130 | %REC | 1 | 12/20/02 5:58 am |
| **CYANIDE, TOTAL** | | Method: | SW9014 | | | | Analyst: CA |
| Cyanide | 0.93 | | 0.12 | 0.12 | mg/Kg-dry | 10 | 12/26/02 12:00 am |
| **MERCURY BY CVAA** | | Method: | SW7471A | | | | Analyst: DZ |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

| | | | | | | |
|---|---|---|---|---|---|---|
| Mercury | 0.0958 | 0.0095 | 0.028 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **LEAD BY GFAA, TCLP** | | Method: SW1311/7421 | | | | Analyst: DZ |
| Lead | 0.0270 | 0.002 | 0.006 | mg/L | 1 | 12/26/02 6:05 pm |
| **PH (IN LABORATORY)** | | Method: SW9045C | | | | Analyst: EM |
| pH | 6.68 | 0 | 0 | pH Units | 1 | 12/19/02 10:19 am |
| **PERCENT MOISTURE** | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 15.9 | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

TBS
1/29/03

*Qualifiers:*
MDL-Continuous

*ND - Not Detected at the Method Detection Limit*
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

**Lab Sample ID:** 02120730-22 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 3:35:00 PM
**Client Sample ID:** *SB-108 (7-11)* **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | Method: | SW6010B | | | | Analyst: RA |
| Aluminum | 5,850 J+ | S | 190 | 570 | mg/kg-dry | 50 | 12/26/02 2:06 pm |
| Antimony | ND | | 0.25 | 0.75 | mg/Kg-dry | 1 | 12/24/02 11:38 am |
| Arsenic | ND | | 0.43 | 1.3 | mg/Kg-dry | 1 | 12/21/02 5:24 pm |
| Barium | 4.27 | | 0.025 | 0.075 | mg/Kg-dry | 1 | 12/21/02 5:24 pm |
| Barium | 4.82 | | 0.025 | 0.075 | mg/Kg-dry | 1 | 12/24/02 9:47 am |
| Beryllium | ND | | 0.12 | 0.37 | mg/Kg-dry | 1 | 12/24/02 11:38 am |
| Cadmium | ND | | 0.025 | 0.075 | mg/Kg-dry | 1 | 12/21/02 5:24 pm |
| Calcium | 69,600 J+ | S | 650 | 1,900 | mg/kg-dry | 1000 | 12/26/02 1:57 pm |
| Chromium | 3.32 | | 0.075 | 0.22 | mg/Kg-dry | 1 | 12/21/02 5:24 pm |
| Cobalt | 3.13 | | 0.075 | 0.22 | mg/Kg-dry | 1 | 12/24/02 11:38 am |
| Copper | 4.12 | | 0.075 | 0.22 | mg/Kg-dry | 1 | 12/23/02 2:56 pm |
| Iron | 42,100 | | 24 | 71 | mg/Kg-dry | 50 | 12/27/02 1:05 pm |
| Lead | 4.32 | | 0.22 | 0.67 | mg/Kg-dry | 1 | 12/21/02 5:24 pm |
| Magnesium | 3,690 | | 15 | 45 | mg/Kg-dry | 50 | 12/27/02 1:05 pm |
| Manganese | 176 | | 0.10 | 0.30 | mg/Kg-dry | 1 | 12/23/02 2:56 pm |
| Nickel | 4.63 | | 0.12 | 0.37 | mg/Kg-dry | 1 | 12/21/02 5:24 pm |
| Potassium | 422 | | 31 | 95 | mg/Kg-dry | 10 | 12/23/02 4:30 pm |
| Selenium | ND | | 0.32 | 0.97 | mg/Kg-dry | 1 | 12/21/02 5:24 pm |
| Selenium | ND | | 0.32 | 0.97 | mg/Kg-dry | 1 | 12/24/02 9:47 am |
| Silver | ND UJ | | 0.025 | 0.075 | mg/Kg-dry | 1 | 12/21/02 5:24 pm |
| Sodium | 633 J+ | | 120 | 370 | mg/Kg-dry | 50 | 12/27/02 1:05 pm |
| Thallium | ND | | 0.27 | 0.82 | mg/Kg-dry | 1 | 12/27/02 11:56 am |
| Vanadium | 3.18 | | 0.22 | 0.67 | mg/Kg-dry | 1 | 12/27/02 11:56 am |
| Zinc | 6.96 | | 0.17 | 0.52 | mg/Kg-dry | 1 | 12/23/02 2:56 pm |
| **VOLATILE ORGANIC COMPOUNDS** | | Method: | SW8260B | | | | Analyst: BK |
| 1,1,1-Trichloroethane | ND | | 0.242 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| 1,1,2,2-Tetrachloroethane | ND | | 0.360 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| 1,1,2-Trichloroethane | ND | | 0.753 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| 1,1-Dichloroethane | ND | | 0.261 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| 1,1-Dichloroethene | ND | | 0.559 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| 1,2-Dichloroethane | ND | | 0.318 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| 1,2-Dichloropropane | ND | | 0.489 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| 2-Butanone | 2.1 | J | 1.64 | 5.44 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| 2-Hexanone | ND | | 0.811 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| 4-Methyl-2-pentanone | ND | | 0.664 | 5.44 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Acetone | 20.0 | | 3.22 | 5.44 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Benzene | 1.0 | J | 0.345 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Bromodichloromethane | ND | | 0.220 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Bromoform | ND | | 0.545 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Bromomethane | ND | | 2.67 | 5.44 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Carbon disulfide | 0.79 | J | 0.433 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |

**Qualifiers:**
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* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Constituent

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | ND | | 0.417 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Chlorobenzene | ND | | 0.393 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Chloroethane | ND | | 4.37 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Chloroform | ND | | 0.244 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Chloromethane | ND | | 1.20 | 5.44 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| cis-1,2-Dichloroethene | ND | | 0.311 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| cis-1,3-Dichloropropene | ND | | 0.317 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Dibromochloromethane | ND | | 0.372 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Ethylbenzene | ND | | 0.409 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| m,p-Xylene | ND | | 0.927 | 2.18 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Methyl tert-butyl ether | ND | | 0.285 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Methylene chloride | ND | | 0.429 | 5.44 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| o-Xylene | ND | | 0.593 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Styrene | ND | | 0.369 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Tetrachloroethene | ND | | 0.874 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Toluene | 0.66 | J | 0.417 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| trans-1,2-Dichloroethene | ND | | 0.590 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| trans-1,3-Dichloropropene | ND | | 0.381 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Trichloroethene | ND | | 0.564 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Vinyl chloride | ND | | 0.460 | 1.09 | µg/Kg-dry | 0.84 | 12/26/02 8:37 pm |
| Surr: 4-Bromofluorobenzene | 90.6 | | 0 | 70-130 | %REC | 0.84 | 12/26/02 8:37 pm |
| Surr: Dibromofluoromethane | 107 | | 0 | 70-130 | %REC | 0.84 | 12/26/02 8:37 pm |
| Surr: Toluene-d8 | 83.7 | | 0 | 70-130 | %REC | 0.84 | 12/26/02 8:37 pm |

**SEMIVOLATILE ORGANICS, BY GCMS SIM** Method: SW8270C Analyst: DP

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND UJ | | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Acenaphthylene | ND | | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Anthracene | ND | | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Benzo(a)anthracene | ND | | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Benzo(a)pyrene | ND | | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Benzo(b)fluoranthene | ND | | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Benzo(g,h,i)perylene | ND | | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Benzo(k)fluoranthene | ND | | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Chrysene | ND | | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Dibenzo(a,h)anthracene | ND | | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Fluoranthene | ND | | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Fluorene | ND | | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Indeno(1,2,3-cd)pyrene | ND | S | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Naphthalene | ND | | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Phenanthrene | ND | | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Pyrene | ND | S | 51.8 | 155 | µg/Kg-dry | 1 | 12/20/02 2:48 am |
| Surr: 2-Fluorobiphenyl | 63.1 | S | 0 | 70-130 | %REC | 1 | 12/20/02 2:48 am |
| Surr: 4-Terphenyl-d14 | 60.3 | S | 0 | 70-130 | %REC | 1 | 12/20/02 2:48 am |
| Surr: Nitrobenzene-d5 | 66.0 | S | 0 | 70-130 | %REC | 1 | 12/20/02 2:48 am |

**CYANIDE, TOTAL** Method: SW9014 Analyst: CA

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Cyanide | ND | | 0.13 | 0.13 | mg/Kg-dry | 10 | 12/26/02 12:00 am |

**MERCURY BY CVAA** Method: SW7471A Analyst: DZ

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120730*
**Project:** 76th and Parrell

| | | | | | | |
|---|---|---|---|---|---|---|
| Mercury | 0.0417 | 0.010 | 0.031 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **LEAD BY GFAA, TCLP** | | Method: SW1311/7421 | | | | Analyst: DZ |
| Lead | ND | 0.002 | 0.006 | mg/L | 1 | 12/26/02 6:05 pm |
| **pH (IN LABORATORY)** | | Method: SW9045C | | | | Analyst: EM |
| pH | 8.03 | 0 | 0 | pH Units | 1 | 12/19/02 10:19 am |
| **PERCENT MOISTURE** | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 22.8 | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm TBS 1/29/03 |

**Lab Sample ID:** 02120730-23 **Date Received:** 12/18/02 7:05:00 PM **Collection Date:** 12/18/02 3:35:00 PM
**Client Sample ID:** SB-108 (7-11) DUP **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Aluminum | 2,640 | J+ S | 240 | 710 | mg/kg-dry | 50 | 12/26/02 2:11 pm |
| Antimony | ND | | 0.31 | 0.94 | mg/Kg-dry | 1 | 12/24/02 11:44 am |
| Arsenic | ND | | 0.54 | 1.6 | mg/Kg-dry | 1 | 12/21/02 5:32 pm |
| Barium | 8.56 | | 0.031 | 0.094 | mg/Kg-dry | 1 | 12/21/02 5:32 pm |
| Barium | 9.22 | | 0.031 | 0.094 | mg/Kg-dry | 1 | 12/24/02 9:53 am |
| Beryllium | ND | | 0.15 | 0.47 | mg/Kg-dry | 1 | 12/24/02 11:44 am |
| Cadmium | ND | | 0.031 | 0.094 | mg/Kg-dry | 1 | 12/21/02 5:32 pm |
| Calcium | 63,000 | J+ S | 810 | 2,400 | mg/kg-dry | 1000 | 12/26/02 2:02 pm |
| Chromium | 4.67 | | 0.094 | 0.28 | mg/Kg-dry | 1 | 12/21/02 5:32 pm |
| Cobalt | 4.81 | | 0.094 | 0.28 | mg/Kg-dry | 1 | 12/24/02 11:44 am |
| Copper | 8.96 | | 0.094 | 0.28 | mg/Kg-dry | 1 | 12/23/02 3:00 pm |
| Iron | 8,870 | | 30 | 90 | mg/Kg-dry | 50 | 12/27/02 1:12 pm |
| Lead | 7.25 | | 0.29 | 0.85 | mg/Kg-dry | 1 | 12/21/02 5:32 pm |
| Magnesium | 21,100 | | 190 | 560 | mg/Kg-dry | 500 | 12/27/02 1:50 pm |
| Magnesium | ND | | 190 | 560 | mg/Kg-dry | 500 | 12/27/02 1:38 pm |
| Manganese | 175 | | 0.13 | 0.38 | mg/Kg-dry | 1 | 12/23/02 3:00 pm |
| Nickel | 7.82 | | 0.15 | 0.47 | mg/Kg-dry | 1 | 12/21/02 5:32 pm |
| Potassium | 619 | | 40 | 120 | mg/Kg-dry | 10 | 12/23/02 4:34 pm |
| Selenium | ND | | 0.40 | 1.2 | mg/Kg-dry | 1 | 12/21/02 5:32 pm |
| Selenium | ND | | 0.40 | 1.2 | mg/Kg-dry | 1 | 12/24/02 9:53 am |
| Silver | ND | UJ | 0.031 | 0.094 | mg/Kg-dry | 1 | 12/21/02 5:32 pm |
| Sodium | 1,060 | J+ S | 160 | 470 | mg/Kg-dry | 50 | 12/27/02 1:12 pm |
| Thallium | ND | | 0.34 | 1.0 | mg/Kg-dry | 1 | 12/27/02 12:03 pm |
| Vanadium | 5.83 | | 0.28 | 0.85 | mg/Kg-dry | 1 | 12/27/02 12:03 pm |
| Zinc | 18.2 | | 0.23 | 0.66 | mg/Kg-dry | 1 | 12/23/02 3:00 pm |
| **CYANIDE, TOTAL** | | | Method: SW9014 | | | | Analyst: CA |
| Cyanide | ND | | 0.13 | 0.13 | mg/Kg-dry | 10 | 12/26/02 12:00 am |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | 0.011 | JS | 0.010 | 0.030 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 20.2 | | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

TBS 1/29/03

**Qualifiers:**
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**SUBURBAN LABORATORIES, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

# PREP DATES REPORT

**CLIENT:** Weston Solutions, Inc. **Lab Order:** *02120730*
**Project:** 76th and Parrell **Date:** *Thursday, January 16, 2003*

| Lab Sample ID | Collection Date | Prep Method | Prep Name | Prep Date |
|---|---|---|---|---|
| 02120730-01A | 12/18/02 12:05 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 12:05 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-02A | 12/18/02 12:10 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 12:10 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-03A | 12/18/02 1:32 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 1:32 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-03B | 12/18/02 1:32 pm | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/19/02 12:00 am |
| 02120730-04A | 12/18/02 1:37 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 1:37 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-04B | 12/18/02 1:37 pm | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/19/02 12:00 am |
| 02120730-05A | 12/18/02 1:42 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 9:31 am |
| | 12/18/02 1:42 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 1:42 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-06A | 12/18/02 1:46 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 1:46 pm | SW3550B | SOLID PREP SONICATION: PCB | 12/19/02 12:46 pm |
| | 12/18/02 1:46 pm | SW3550B | SOLID PREP SONICATION: Pest | 12/19/02 12:46 pm |
| | 12/18/02 1:46 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-07A | 12/18/02 2:08 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 2:08 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-07B | 12/18/02 2:08 pm | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/19/02 12:00 am |
| 02120730-07D | 12/18/02 2:08 pm | SW3020A | AQUEOUS PREP TOTAL METALS: GFAA | 12/26/02 1:15 pm |
| | 12/18/02 2:08 pm | SW1311 | TCLP SAMPLE PREP (Metals) | 12/19/02 4:04 pm |
| 02120730-08A | 12/18/02 2:15 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 2:15 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-08B | 12/18/02 2:15 pm | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/19/02 12:00 am |
| 02120730-09A | 12/18/02 2:30 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 2:30 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-10A | 12/18/02 2:35 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 2:35 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-11A | 12/18/02 2:45 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 2:45 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 9:31 am |
| | 12/18/02 2:45 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-11B | 12/18/02 2:45 pm | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/19/02 12:00 am |
| 02120730-12A | 12/18/02 2:53 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 2:53 pm | SW3550B | SOLID PREP SONICATION: PCB | 12/19/02 12:46 pm |
| | 12/18/02 2:53 pm | SW3550B | SOLID PREP SONICATION: Pest | 12/19/02 12:46 pm |
| | 12/18/02 2:53 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-12B | 12/18/02 2:53 pm | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/19/02 12:00 am |
| 02120730-13A | 12/18/02 1:32 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 1:32 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-14A | 12/18/02 1:37 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| 02120730-15A | 12/18/02 1:42 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 9:31 am |
| | 12/18/02 1:42 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/26/02 12:00 am |
| 02120730-16A | 12/18/02 1:04 pm | SW3550B | SOLID PREP SONICATION: PCB | 12/19/02 12:46 pm |
| | 12/18/02 1:04 pm | SW3550B | SOLID PREP SONICATION: Pest | 12/19/02 12:46 pm |
| 02120730-17A | 12/18/02 2:30 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-18A | 12/18/02 2:35 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-19A | 12/18/02 3:12 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 3:12 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-20A | 12/18/02 3:20 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

# PREP DATES REPORT

**CLIENT:** Weston Solutions, Inc.

**Lab Order:** *02120730*

**Project:** 76th and Parrell

**Date:** *Thursday, January 16, 2003*

| Lab Sample ID | Collection Date | Prep Method | Prep Name | Prep Date |
|---|---|---|---|---|
| 02120730-20A | 12/18/02 3:20 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-21A | 12/18/02 3:30 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 3:30 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-21B | 12/18/02 3:30 pm | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/19/02 12:00 am |
| 02120730-21D | 12/18/02 3:30 pm | SW3020A | AQUEOUS PREP TOTAL METALS: GFAA | 12/26/02 1:15 pm |
| | 12/18/02 3:30 pm | SW1311 | TCLP SAMPLE PREP (Metals) | 12/19/02 4:04 pm |
| 02120730-22A | 12/18/02 3:35 pm | SW3550B | SOLID PREP SONICATION: BNA | 12/19/02 12:00 am |
| | 12/18/02 3:35 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |
| 02120730-22B | 12/18/02 3:35 pm | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/19/02 12:00 am |
| 02120730-22D | 12/18/02 3:35 pm | SW3020A | AQUEOUS PREP TOTAL METALS: GFAA | 12/26/02 1:15 pm |
| | 12/18/02 3:35 pm | SW1311 | TCLP SAMPLE PREP (Metals) | 12/19/02 4:04 pm |
| 02120730-23A | 12/18/02 3:35 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/19/02 8:48 am |

Suburban Laboratories, Inc.

**Date:** *16-Jan-03*

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Method Blank

Sample ID: **MB-7635** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/21/02 2:10:12 PM** Prep Date: **12/19/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **339307**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 1.5 | | | | | | | | | |
| Barium | ND | 0.75 | | | | | | | | | |
| Cadmium | ND | 0.225 | | | | | | | | | |
| Chromium | ND | 0.75 | | | | | | | | | |
| Lead | ND | 1.5 | | | | | | | | | |
| Molybdenum | ND | 0.75 | | | | | | | | | |
| Nickel | ND | 0.375 | | | | | | | | | |
| Potassium | ND | 15 | | | | | | | | | |
| Selenium | ND | 1.5 | | | | | | | | | |
| Silver | ND | 0.225 | | | | | | | | | |

Sample ID: **MB-7635** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/23/02 2:00:31 PM** Prep Date: **12/19/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **339694**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Copper | ND | 0.375 | | | | | | | | | |
| Manganese | ND | 0.75 | | | | | | | | | |
| Zinc | ND | 0.75 | | | | | | | | | |

Sample ID: **MB-7635** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/23/02 4:05:38 PM** Prep Date: **12/19/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **339712**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Potassium | ND | 15 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Method Blank

Sample ID: **MB-7635** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/24/02 9:04:39 AM** Prep Date: **12/19/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340007**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | ND | 0.75 | | | | | | | | | |
| Selenium | ND | 1.5 | | | | | | | | | |

Sample ID: **MB-7635** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/24/02 11:08:15 AM** Prep Date: **12/19/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340074**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 15 | | | | | | | | | |
| Antimony | ND | 1.5 | | | | | | | | | |
| Beryllium | ND | 0.375 | | | | | | | | | |
| Cobalt | ND | 0.75 | | | | | | | | | |

Sample ID: **MB-7635** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/26/02 1:08:51 PM** Prep Date: **12/19/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340498**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ND | 0 | | | | | | | | | |
| Calcium | ND | 0 | | | | | | | | | |

Sample ID: **MB-7635** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/27/02 11:26:29 AM** Prep Date: **12/19/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **341313**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | ND | 3.75 | | | | | | | | | |
| Magnesium | ND | 3.75 | | | | | | | | | |
| Sodium | ND | 7.5 | | | | | | | | | |
| Thallium | ND | 1.5 | | | | | | | | | |
| Vanadium | ND | 0.75 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Method Blank

Sample ID: **MB-7649** Batch ID: **7648** Test Code: **SW8081A** Units: **µg/Kg** Analysis Date **12/21/02 4:44:00 PM** Prep Date: **12/19/02**

Client ID: Run ID: **GC_HP_3_021221A** SeqNo: **340289**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4-DDD | ND | 6 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 4,4-DDE | ND | 12 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 4,4-DDT | ND | 6 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aldrin | ND | 12 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| alpha-BHC | ND | 12 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| alpha-Chlordane | ND | 9 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| beta-BHC | ND | 18 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Chlordane | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| delta-BHC | ND | 6 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Dieldrin | ND | 36 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Endosulfan I | ND | 12 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Endosulfan II | ND | 9 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Endosulfan sulfate | ND | 12 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Endrin | ND | 12 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Endrin aldehyde | ND | 66 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Endrin ketone | ND | 6 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| gamma-BHC | ND | 6 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| gamma-Chlordane | ND | 12 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Heptachlor | ND | 3 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Heptachlor epoxide | ND | 18 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Methoxychlor | ND | 78 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Parathion | ND | 57 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Toxaphene | ND | 600 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Surr: Tetrachloro-m-xylene | 168.3 | 0 | 160 | 0 | 105 | 33.7 | 156 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Method Blank

Sample ID: **MB-7648** Batch ID: **7648** Test Code: **SW8082** Units: **µg/Kg** Analysis Date **12/19/02 2:45:00 PM** Prep Date: **12/19/02**
Client ID: Run ID: **GC_HP_2_021219A** SeqNo: **338589**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | 300 | | | | | | | | | |
| Aroclor 1221 | ND | 300 | | | | | | | | | |
| Aroclor 1232 | ND | 300 | | | | | | | | | |
| Aroclor 1242 | ND | 300 | | | | | | | | | |
| Aroclor 1248 | ND | 300 | | | | | | | | | |
| Aroclor 1254 | ND | 300 | | | | | | | | | |
| Aroclor 1260 | ND | 300 | | | | | | | | | |
| Surr: Tetrachloro-m-xylene | 162.5 | 0 | 160 | 0 | 102 | 33.7 | 156 | 0 | | | |

Sample ID: **MB-7648** Batch ID: **7649** Test Code: **SW8082** Units: **µg/Kg** Analysis Date **12/21/02 4:44:00 PM** Prep Date: **12/19/02**
Client ID: Run ID: **GC_HP_3_021221A** SeqNo: **340290**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | 300 | | | | | | | | | |
| Aroclor 1221 | ND | 300 | | | | | | | | | |
| Aroclor 1232 | ND | 300 | | | | | | | | | |
| Aroclor 1242 | ND | 300 | | | | | | | | | |
| Aroclor 1248 | ND | 300 | | | | | | | | | |
| Aroclor 1254 | ND | 300 | | | | | | | | | |
| Aroclor 1260 | ND | 300 | | | | | | | | | |
| Surr: Tetrachloro-m-xylene | 215.5 | 0 | 160 | 0 | 135 | 33.7 | 156 | 0 | | | |

**Qualifiers:**
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Method Blank

Sample ID: **BLANK** Batch ID: **R22004** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/19/02 7:32:00 PM** Prep Date:

Client ID: Run ID: **GCMS5_021219B** SeqNo: **339498**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 0.893 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.666 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.992 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.08 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.719 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 1.54 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 1.68 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 2.35 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.725 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 2.92 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.33 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 3.01 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 0.99 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.903 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.876 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 1.35 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.76 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.912 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.916 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.06 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 1.05 | | | | | | | | | |
| 2-Butanone | ND | 4.53 | | | | | | | | | |
| 2-Chloroethyl vinyl ether | ND | 1.34 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.711 | | | | | | | | | |
| 2-Hexanone | ND | 2.24 | | | | | | | | | |
| 4-Chlorotoluene | ND | 1.04 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 1.43 | | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 1.83 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Method Blank

| | | |
|---|---|---|
| Acetone | ND | 8.88 |
| Acrolein | ND | 5.13 |
| Acrylonitrile | ND | 3.09 |
| Allyl Chloride | ND | 2.1 |
| Benzene | ND | 0.95 |
| Bromobenzene | ND | 1.31 |
| Bromochloromethane | ND | 0.996 |
| Bromodichloromethane | ND | 0.607 |
| Bromoform | ND | 1.5 |
| Bromomethane | ND | 7.34 |
| Carbon disulfide | ND | 1.2 |
| Carbon tetrachloride | ND | 1.15 |
| Chlorobenzene | ND | 1.08 |
| Chloroethane | ND | 12.1 |
| Chloroform | ND | 0.67 |
| Chloromethane | ND | 3.29 |
| cis-1,2-Dichloroethene | ND | 0.86 |
| cis-1,3-Dichloropropene | ND | 0.874 |
| Dibromochloromethane | ND | 1.03 |
| Dibromomethane | ND | 1.26 |
| Dichlorodifluoromethane | ND | 2.02 |
| Ethyl methacrylate | ND | 1.23 |
| Ethylbenzene | ND | 1.13 |
| Hexachlorobutadiene | ND | 1.92 |
| Hexachloroethane | ND | 0.819 |
| Iodomethane | ND | 3.09 |
| Isopropylbenzene | ND | 0.61 |
| m,p-Xylene | ND | 2.56 |
| Methyl acrylate | ND | 1.2 |
| Methyl acrylonitrile | ND | 1.85 |
| Methyl methacrylate | ND | 2.58 |
| Methyl tert-butyl ether | ND | 0.786 |
| Methylene chloride | ND | 1.18 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Method Blank

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | ND | 1.17 | | | | | | | |
| n-Propylbenzene | ND | 0.999 | | | | | | | |
| Naphthalene | 0.68 | 1.14 | | | | | | | J |
| o-Xylene | ND | 1.64 | | | | | | | |
| Pentachloroethane | ND | 2.06 | | | | | | | |
| sec-Butylbenzene | ND | 0.655 | | | | | | | |
| Styrene | ND | 1.02 | | | | | | | |
| tert-Butylbenzene | ND | 0.758 | | | | | | | |
| Tetrachloroethene | ND | 2.41 | | | | | | | |
| Tetrahydrofuran | ND | 2.5 | | | | | | | |
| Toluene | ND | 1.15 | | | | | | | |
| trans-1,2-Dichloroethene | ND | 1.63 | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.05 | | | | | | | |
| Trichloroethene | ND | 1.55 | | | | | | | |
| Trichlorofluoromethane | ND | 1.01 | | | | | | | |
| Vinyl acetate | ND | 3 | | | | | | | |
| Vinyl chloride | ND | 1.27 | | | | | | | |
| Surr: 4-Bromofluorobenzene | 49.81 | 0 | 50 | 0 | 99.6 | 70 | 130 | 0 | |
| Surr: Dibromofluoromethane | 52.56 | 0 | 50 | 0 | 105 | 70 | 130 | 0 | |
| Surr: Toluene-d8 | 50.95 | 0 | 50 | 0 | 102 | 70 | 130 | 0 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

*Method Blank*

Sample ID: **BLANK** Batch ID: **R22101** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/26/02 7:09:00 PM** Prep Date:

Client ID: Run ID: **GCMS5_021226A** SeqNo: **341373**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 0.893 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.666 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.992 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.08 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.719 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 1.54 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 1.68 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 2.35 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.725 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 2.92 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.33 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 3.01 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 0.99 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.903 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.876 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 1.35 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.76 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.912 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.916 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.06 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 1.05 | | | | | | | | | |
| 2-Butanone | ND | 4.53 | | | | | | | | | |
| 2-Chloroethyl vinyl ether | ND | 1.34 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.711 | | | | | | | | | |
| 2-Hexanone | ND | 2.24 | | | | | | | | | |
| 4-Chlorotoluene | ND | 1.04 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 1.43 | | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 1.83 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Method Blank

| | | |
|---|---|---|
| Acetone | ND | 8.88 |
| Acrolein | ND | 5.13 |
| Acrylonitrile | ND | 3.09 |
| Allyl Chloride | ND | 2.1 |
| Benzene | ND | 0.95 |
| Bromobenzene | ND | 1.31 |
| Bromochloromethane | ND | 0.996 |
| Bromodichloromethane | ND | 0.607 |
| Bromoform | ND | 1.5 |
| Bromomethane | ND | 7.34 |
| Carbon disulfide | ND | 1.2 |
| Carbon tetrachloride | ND | 1.15 |
| Chlorobenzene | ND | 1.08 |
| Chloroethane | ND | 12.1 |
| Chloroform | ND | 0.67 |
| Chloromethane | ND | 3.29 |
| cis-1,2-Dichloroethene | ND | 0.86 |
| cis-1,3-Dichloropropene | ND | 0.874 |
| Dibromochloromethane | ND | 1.03 |
| Dibromomethane | ND | 1.26 |
| Dichlorodifluoromethane | ND | 2.02 |
| Ethyl methacrylate | ND | 1.23 |
| Ethylbenzene | ND | 1.13 |
| Hexachlorobutadiene | ND | 1.92 |
| Hexachloroethane | ND | 0.819 |
| Iodomethane | ND | 3.09 |
| Isopropylbenzene | ND | 0.61 |
| m,p-Xylene | ND | 2.56 |
| Methyl acrylate | ND | 1.2 |
| Methyl acrylonitrile | ND | 1.85 |
| Methyl methacrylate | ND | 2.58 |
| Methyl tert-butyl ether | ND | 0.786 |
| Methylene chloride | ND | 1.18 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

*Method Blank*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | ND | 1.17 | | | | | | |
| n-Propylbenzene | ND | 0.999 | | | | | | |
| Naphthalene | ND | 1.14 | | | | | | |
| o-Xylene | ND | 1.64 | | | | | | |
| Pentachloroethane | ND | 2.06 | | | | | | |
| sec-Butylbenzene | ND | 0.655 | | | | | | |
| Styrene | ND | 1.02 | | | | | | |
| tert-Butylbenzene | ND | 0.758 | | | | | | |
| Tetrachloroethene | ND | 2.41 | | | | | | |
| Tetrahydrofuran | ND | 2.5 | | | | | | |
| Toluene | ND | 1.15 | | | | | | |
| trans-1,2-Dichloroethene | ND | 1.63 | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.05 | | | | | | |
| Trichloroethene | ND | 1.55 | | | | | | |
| Trichlorofluoromethane | ND | 1.01 | | | | | | |
| Vinyl acetate | ND | 3 | | | | | | |
| Vinyl chloride | ND | 1.27 | | | | | | |
| Surr: 4-Bromofluorobenzene | 47.01 | 0 | 50 | 0 | 94 | 70 | 130 | 0 |
| Surr: Dibromofluoromethane | 51.71 | 0 | 50 | 0 | 103 | 70 | 130 | 0 |
| Surr: Toluene-d8 | 48.61 | 0 | 50 | 0 | 97.2 | 70 | 130 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Method Blank

Sample ID: **BLANK** Batch ID: **R22106** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/27/02 1:48:00 PM** Prep Date:
Client ID: Run ID: **GCMS5_021227A** SeqNo: **341392**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 0.893 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.666 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.992 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.08 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.719 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 1.54 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 1.68 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 2.35 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.725 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 2.92 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.33 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 3.01 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 0.99 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.903 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.876 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 1.35 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.76 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.912 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.916 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.06 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 1.05 | | | | | | | | | |
| 2-Butanone | ND | 4.53 | | | | | | | | | |
| 2-Chloroethyl vinyl ether | ND | 1.34 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.711 | | | | | | | | | |
| 2-Hexanone | ND | 2.24 | | | | | | | | | |
| 4-Chlorotoluene | ND | 1.04 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 1.43 | | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 1.83 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Method Blank

| | | |
|---|---|---|
| Acetone | ND | 8.88 |
| Acrolein | ND | 5.13 |
| Acrylonitrile | ND | 3.09 |
| Allyl Chloride | ND | 2.1 |
| Benzene | ND | 0.95 |
| Bromobenzene | ND | 1.31 |
| Bromochloromethane | ND | 0.996 |
| Bromodichloromethane | ND | 0.607 |
| Bromoform | ND | 1.5 |
| Bromomethane | ND | 7.34 |
| Carbon disulfide | ND | 1.2 |
| Carbon tetrachloride | ND | 1.15 |
| Chlorobenzene | ND | 1.08 |
| Chloroethane | ND | 12.1 |
| Chloroform | ND | 0.67 |
| Chloromethane | ND | 3.29 |
| cis-1,2-Dichloroethene | ND | 0.86 |
| cis-1,3-Dichloropropene | ND | 0.874 |
| Dibromochloromethane | ND | 1.03 |
| Dibromomethane | ND | 1.26 |
| Dichlorodifluoromethane | ND | 2.02 |
| Ethyl methacrylate | ND | 1.23 |
| Ethylbenzene | ND | 1.13 |
| Hexachlorobutadiene | ND | 1.92 |
| Hexachloroethane | ND | 0.819 |
| Iodomethane | ND | 3.09 |
| Isopropylbenzene | ND | 0.61 |
| m,p-Xylene | ND | 2.56 |
| Methyl acrylate | ND | 1.2 |
| Methyl acrylonitrile | ND | 1.85 |
| Methyl methacrylate | ND | 2.58 |
| Methyl tert-butyl ether | ND | 0.786 |
| Methylene chloride | ND | 1.18 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

# QC SUMMARY REPORT

## Method Blank

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | ND | 1.17 | | | | | | |
| n-Propylbenzene | ND | 0.999 | | | | | | |
| Naphthalene | ND | 1.14 | | | | | | |
| o-Xylene | ND | 1.64 | | | | | | |
| Pentachloroethane | ND | 2.06 | | | | | | |
| sec-Butylbenzene | ND | 0.655 | | | | | | |
| Styrene | ND | 1.02 | | | | | | |
| tert-Butylbenzene | ND | 0.758 | | | | | | |
| Tetrachloroethene | ND | 2.41 | | | | | | |
| Tetrahydrofuran | ND | 2.5 | | | | | | |
| Toluene | ND | 1.15 | | | | | | |
| trans-1,2-Dichloroethene | ND | 1.63 | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.05 | | | | | | |
| Trichloroethene | ND | 1.55 | | | | | | |
| Trichlorofluoromethane | ND | 1.01 | | | | | | |
| Vinyl acetate | ND | 3 | | | | | | |
| Vinyl chloride | ND | 1.27 | | | | | | |
| Surr: 4-Bromofluorobenzene | 46.62 | 0 | 50 | 0 | 93.2 | 70 | 130 | 0 |
| Surr: Dibromofluoromethane | 49.69 | 0 | 50 | 0 | 99.4 | 70 | 130 | 0 |
| Surr: Toluene-d8 | 51.37 | 0 | 50 | 0 | 103 | 70 | 130 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Method Blank

Sample ID: **MB-7695** Batch ID: **7695** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/27/02 2:28:00 PM** Prep Date: **12/24/02**
Client ID: Run ID: **SV_1_021227A** SeqNo: **341347**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 256 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 471 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 243 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 221 | | | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 181 | | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 190 | | | | | | | | | |
| 2,4-Dichlorophenol | ND | 193 | | | | | | | | | |
| 2,4-Dimethylphenol | ND | 222 | | | | | | | | | |
| 2,4-Dinitrophenol | ND | 152 | | | | | | | | | |
| 2,4-Dinitrotoluene | ND | 108 | | | | | | | | | |
| 2,6-Dinitrotoluene | ND | 211 | | | | | | | | | |
| 2-Chloronaphthalene | ND | 142 | | | | | | | | | |
| 2-Chlorophenol | ND | 495 | | | | | | | | | |
| 2-Methylnaphthalene | ND | 189 | | | | | | | | | |
| 2-Nitroaniline | ND | 95.1 | | | | | | | | | |
| 2-Nitrophenol | ND | 128 | | | | | | | | | |
| 3,3-Dichlorobenzidine | ND | 176 | | | | | | | | | |
| 3-Nitroaniline | ND | 118 | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 107 | | | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 74.4 | | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 277 | | | | | | | | | |
| 4-Chloroaniline | ND | 106 | | | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 82.8 | | | | | | | | | |
| 4-Nitroaniline | ND | 149 | | | | | | | | | |
| 4-Nitrophenol | ND | 108 | | | | | | | | | |
| Acenaphthene | ND | 121 | | | | | | | | | |
| Acenaphthylene | ND | 162 | | | | | | | | | |
| Anthracene | ND | 142 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

Sample ID: **CCV 250 1-5** Batch ID: **R22100** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/26/02 5:21:00 PM** *Prep Date:*

Client ID: Run ID: **SV_3_021226A** SeqNo: **341342**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 249.9 | 120 | 250 | 0 | 100 | 80 | 120 | 0 | | | |
| Acenaphthylene | 266.3 | 120 | 250 | 0 | 107 | 80 | 120 | 0 | | | |
| Anthracene | 243.5 | 120 | 250 | 0 | 97.4 | 80 | 120 | 0 | | | |
| Benzo(a)anthracene | 281.5 | 120 | 250 | 0 | 113 | 80 | 120 | 0 | | | |
| Benzo(a)pyrene | 244.6 | 120 | 250 | 0 | 97.8 | 80 | 120 | 0 | | | |
| Benzo(b)fluoranthene | 258.3 | 120 | 250 | 0 | 103 | 80 | 120 | 0 | | | |
| Benzo(g,h,i)perylene | 249.4 | 120 | 250 | 0 | 99.8 | 80 | 120 | 0 | | | |
| Benzo(k)fluoranthene | 221.3 | 120 | 250 | 0 | 88.5 | 80 | 120 | 0 | | | |
| Chrysene | 215.4 | 120 | 250 | 0 | 86.2 | 80 | 120 | 0 | | | |
| Dibenzo(a,h)anthracene | 249.7 | 120 | 250 | 0 | 99.9 | 80 | 120 | 0 | | | |
| Fluoranthene | 284.4 | 120 | 250 | 0 | 114 | 80 | 120 | 0 | | | |
| Fluorene | 260.9 | 120 | 250 | 0 | 104 | 80 | 120 | 0 | | | |
| Hexachlorobenzene | 271 | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 232.1 | 120 | 250 | 0 | 92.9 | 80 | 120 | 0 | | | |
| Naphthalene | 233.1 | 120 | 250 | 0 | 93.2 | 80 | 120 | 0 | | | |
| Phenanthrene | 277.2 | 120 | 250 | 0 | 111 | 80 | 120 | 0 | | | |
| Pyrene | 222.1 | 120 | 250 | 0 | 88.8 | 80 | 120 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 260.4 | 0 | 250 | 0 | 104 | 80 | 120 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 253.4 | 0 | 250 | 0 | 101 | 80 | 120 | 0 | | | |
| Surr: Nitrobenzene-d5 | 276.1 | 0 | 250 | 0 | 110 | 80 | 120 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Continuing Calibration Verification Standard

Sample ID: **CCV 250 1-5** Batch ID: **R22020** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/19/02 10:31:00 PM** Prep Date:

Client ID: Run ID: **SV_3_021219B** SeqNo: **339719**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 248.8 | 120 | 250 | 0 | 99.5 | 80 | 120 | 0 | | | |
| Acenaphthylene | 253.4 | 120 | 250 | 0 | 101 | 80 | 120 | 0 | | | |
| Anthracene | 232.4 | 120 | 250 | 0 | 93 | 80 | 120 | 0 | | | |
| Benzo(a)anthracene | 246.7 | 120 | 250 | 0 | 98.7 | 80 | 120 | 0 | | | |
| Benzo(a)pyrene | 236.7 | 120 | 250 | 0 | 94.7 | 80 | 120 | 0 | | | |
| Benzo(b)fluoranthene | 231.7 | 120 | 250 | 0 | 92.7 | 80 | 120 | 0 | | | |
| Benzo(g,h,i)perylene | 253.4 | 120 | 250 | 0 | 101 | 80 | 120 | 0 | | | |
| Benzo(k)fluoranthene | 242.2 | 120 | 250 | 0 | 96.9 | 80 | 120 | 0 | | | |
| Chrysene | 239.1 | 120 | 250 | 0 | 95.6 | 80 | 120 | 0 | | | |
| Dibenzo(a,h)anthracene | 234.4 | 120 | 250 | 0 | 93.7 | 80 | 120 | 0 | | | |
| Fluoranthene | 247.9 | 120 | 250 | 0 | 99.1 | 80 | 120 | 0 | | | |
| Fluorene | 239.5 | 120 | 250 | 0 | 95.8 | 80 | 120 | 0 | | | |
| Hexachlorobenzene | 275.4 | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 218.9 | 120 | 250 | 0 | 87.6 | 80 | 120 | 0 | | | |
| Naphthalene | 227.4 | 120 | 250 | 0 | 91 | 80 | 120 | 0 | | | |
| Phenanthrene | 265.8 | 120 | 250 | 0 | 106 | 80 | 120 | 0 | | | |
| Pyrene | 259.4 | 120 | 250 | 0 | 104 | 80 | 120 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 245.1 | 0 | 250 | 0 | 98 | 80 | 120 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 275.9 | 0 | 250 | 0 | 110 | 80 | 120 | 0 | | | |
| Surr: Nitrobenzene-d5 | 247 | 0 | 250 | 0 | 98.8 | 80 | 120 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| N-Nitrosodiphenylamine | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Naphthalene | 236 | 120 | 250 | 0 | 94.4 | 80 | 120 | 0 |
| Nitrobenzene | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| o-Cresol | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Pentachlorophenol | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Phenanthrene | 265.8 | 120 | 250 | 0 | 106 | 80 | 120 | 0 |
| Phenol | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Pyrene | 266.2 | 120 | 250 | 0 | 106 | 80 | 120 | 0 |
| Pyridine | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Surr: 2,4,6-Tribromophenol | ND | 0 | 0 | 0 | 0 | 80 | 120 | 0 |
| Surr: 2-Fluorobiphenyl | 245.3 | 0 | 250 | 0 | 98.1 | 80 | 120 | 0 |
| Surr: 2-Fluorophenol | ND | 0 | 0 | 0 | 0 | 80 | 120 | 0 |
| Surr: 4-Terphenyl-d14 | 272.7 | 0 | 250 | 0 | 109 | 80 | 120 | 0 |
| Surr: Nitrobenzene-d5 | 224.8 | 0 | 250 | 0 | 89.9 | 80 | 120 | 0 |
| Surr: Phenol-d5 | ND | 0 | 0 | 0 | 0 | 80 | 120 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Azobenzene | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Benzidine | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Benzo(a)anthracene | 221.1 | 120 | 250 | 0 | 88.4 | 80 | 120 | 0 |
| Benzo(a)pyrene | 238.1 | 120 | 250 | 0 | 95.2 | 80 | 120 | 0 |
| Benzo(b)fluoranthene | 257 | 120 | 250 | 0 | 103 | 80 | 120 | 0 |
| Benzo(g,h,i)perylene | 291.2 | 120 | 250 | 0 | 116 | 80 | 120 | 0 |
| Benzo(k)fluoranthene | 269.3 | 120 | 250 | 0 | 108 | 80 | 120 | 0 |
| Benzoic acid | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Benzyl alcohol | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Bis(2-chloroethoxy)methane | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Bis(2-chloroethyl)ether | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Bis(2-chloroisopropyl)ether | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Bis(2-ethylhexyl)phthalate | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Butyl benzyl phthalate | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Carbazole | ND | 120 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chrysene | 255.5 | 120 | 250 | 0 | 102 | 80 | 120 | 0 |
| Di-n-butyl phthalate | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Di-n-octyl phthalate | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Dibenzo(a,h)anthracene | 261.3 | 120 | 250 | 0 | 105 | 80 | 120 | 0 |
| Dibenzofuran | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Diethyl phthalate | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Dimethyl phthalate | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Fluoranthene | 252.4 | 120 | 250 | 0 | 101 | 80 | 120 | 0 |
| Fluorene | 244.3 | 120 | 250 | 0 | 97.7 | 80 | 120 | 0 |
| Hexachlorobenzene | 258.8 | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Hexachlorobutadiene | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Hexachlorocyclopentadiene | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Hexachloroethane | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| Indeno(1,2,3-cd)pyrene | 221.4 | 120 | 250 | 0 | 88.6 | 80 | 120 | 0 |
| Isophorone | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| m,p-Cresol | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| N-Nitrosodi-n-propylamine | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |
| N-Nitrosodimethylamine | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Continuing Calibration Verification Standard

Sample ID: **CCV 250 1-5** Batch ID: **R21944** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/19/02 10:45:00 AM** Prep Date:

Client ID: Run ID: **SV_3_021219A** SeqNo: **338639**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 1,2-Dichlorobenzene | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 1,3-Dichlorobenzene | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 1,4-Dichlorobenzene | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 2,4,5-Trichlorophenol | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 2,4,6-Trichlorophenol | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 2,4-Dichlorophenol | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 2,4-Dimethylphenol | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 2,4-Dinitrophenol | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 2,4-Dinitrotoluene | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 2,6-Dinitrotoluene | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 2-Chloronaphthalene | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 2-Chlorophenol | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 2-Methylnaphthalene | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 2-Nitroaniline | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 2-Nitrophenol | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 3,3-Dichlorobenzidine | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 3-Nitroaniline | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 4,6-Dinitro-2-methylphenol | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 4-Bromophenyl phenyl ether | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 4-Chloro-3-methylphenol | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 4-Chloroaniline | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 4-Chlorophenyl phenyl ether | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 4-Nitroaniline | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| 4-Nitrophenol | ND | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| Acenaphthene | 253.1 | 120 | 250 | 0 | 101 | 80 | 120 | 0 | | | |
| Acenaphthylene | 227.3 | 120 | 250 | 0 | 90.9 | 80 | 120 | 0 | | | |
| Anthracene | 202 | 120 | 250 | 0 | 80.8 | 80 | 120 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| N-Nitrosodiphenylamine | 81 | 118 | 80 | 0 | 101 | 80 | 120 | 0 |
| Naphthalene | 88.15 | 411 | 80 | 0 | 110 | | | 0 |
| Nitrobenzene | 87.73 | 321 | 80 | 0 | 110 | | | 0 |
| o-Cresol | 80.43 | 165 | 80 | 0 | 101 | | | 0 |
| Pentachlorophenol | 93.28 | 109 | 80 | 0 | 117 | 80 | 120 | 0 |
| Phenanthrene | 81.06 | 134 | 80 | 0 | 101 | | | 0 |
| Phenol | 79.83 | 115 | 80 | 0 | 99.8 | 80 | 120 | 0 |
| Pyrene | 72.7 | 124 | 80 | 0 | 90.9 | | | 0 |
| Pyridine | 68.58 | 246 | 80 | 0 | 85.7 | | | 0 |
| Surr: 2,4,6-Tribromophenol | 102.2 | 0 | 80 | 0 | 128 | | | 0 |
| Surr: 2-Fluorobiphenyl | 85.45 | 0 | 80 | 0 | 107 | | | 0 |
| Surr: 2-Fluorophenol | 78.25 | 0 | 80 | 0 | 97.8 | | | 0 |
| Surr: 4-Terphenyl-d14 | 76.99 | 0 | 80 | 0 | 96.2 | | | 0 |
| Surr: Nitrobenzene-d5 | 84.56 | 0 | 80 | 0 | 106 | | | 0 |
| Surr: Phenol-d5 | 89.66 | 0 | 80 | 0 | 112 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Azobenzene | 89.66 | 101 | 80 | 0 | 112 | | | 0 |
| Benzidine | 70.81 | 138 | 80 | 0 | 88.5 | | | 0 |
| Benzo(a)anthracene | 79.63 | 157 | 80 | 0 | 99.5 | | | 0 |
| Benzo(a)pyrene | 80.12 | 153 | 80 | 0 | 100 | 80 | 120 | 0 |
| Benzo(b)fluoranthene | 78.01 | 137 | 80 | 0 | 97.5 | | | 0 |
| Benzo(g,h,i)perylene | 97.65 | 207 | 80 | 0 | 122 | | | 0 |
| Benzo(k)fluoranthene | 76.78 | 136 | 80 | 0 | 96 | | | 0 |
| Benzoic acid | 88.75 | 136 | 80 | 0 | 111 | | | 0 |
| Benzyl alcohol | 78.38 | 147 | 80 | 0 | 98 | | | 0 |
| Bis(2-chloroethoxy)methane | 81.6 | 239 | 80 | 0 | 102 | | | 0 |
| Bis(2-chloroethyl)ether | 82.05 | 429 | 80 | 0 | 103 | | | 0 |
| Bis(2-chloroisopropyl)ether | 82.66 | 429 | 80 | 0 | 103 | | | 0 |
| Bis(2-ethylhexyl)phthalate | 77.84 | 753 | 80 | 0 | 97.3 | | | 0 |
| Butyl benzyl phthalate | 74.71 | 215 | 80 | 0 | 93.4 | | | 0 |
| Carbazole | 67.91 | 1980 | 0 | 0 | 0 | | | 0 |
| Chrysene | 76.96 | 199 | 80 | 0 | 96.2 | | | 0 |
| Di-n-butyl phthalate | 84.07 | 241 | 80 | 0 | 105 | | | 0 |
| Di-n-octyl phthalate | 71.76 | 136 | 80 | 0 | 89.7 | 80 | 120 | 0 |
| Dibenzo(a,h)anthracene | 85.99 | 247 | 80 | 0 | 107 | | | 0 |
| Dibenzofuran | 85.19 | 93 | 80 | 0 | 106 | | | 0 |
| Diethyl phthalate | 89.91 | 113 | 80 | 0 | 112 | | | 0 |
| Dimethyl phthalate | 82.68 | 151 | 80 | 0 | 103 | | | 0 |
| Fluoranthene | 84.55 | 173 | 80 | 0 | 106 | 80 | 120 | 0 |
| Fluorene | 89.49 | 148 | 80 | 0 | 112 | | | 0 |
| Hexachlorobenzene | 91.36 | 107 | 80 | 0 | 114 | | | 0 |
| Hexachlorobutadiene | 95.85 | 273 | 80 | 0 | 120 | 80 | 120 | 0 |
| Hexachlorocyclopentadiene | 102.8 | 248 | 80 | 0 | 128 | | | 0 |
| Hexachloroethane | 96.41 | 291 | 80 | 0 | 121 | | | 0 |
| Indeno(1,2,3-cd)pyrene | 91.77 | 200 | 80 | 0 | 115 | | | 0 |
| Isophorone | 81.23 | 128 | 80 | 0 | 102 | | | 0 |
| m,p-Cresol | 87.25 | 555 | 80 | 0 | 109 | | | 0 |
| N-Nitrosodi-n-propylamine | 78.47 | 245 | 80 | 0 | 98.1 | | | 0 |
| N-Nitrosodimethylamine | 68.36 | 130 | 80 | 0 | 85.4 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Continuing Calibration Verification Standard

Sample ID: **SVOA CCV 80p** Batch ID: **R22096** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/27/02 12:35:00 PM** Prep Date:

Client ID: Run ID: **SV_1_021227A** SeqNo: **341293**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 88.49 | 256 | 80 | 0 | 111 | | | 0 | | | |
| 1,2-Dichlorobenzene | 82.09 | 471 | 80 | 0 | 103 | | | 0 | | | |
| 1,3-Dichlorobenzene | 77.83 | 243 | 80 | 0 | 97.3 | | | 0 | | | |
| 1,4-Dichlorobenzene | 85.27 | 221 | 80 | 0 | 107 | 80 | 120 | 0 | | | |
| 2,4,5-Trichlorophenol | 92.79 | 181 | 80 | 0 | 116 | | | 0 | | | |
| 2,4,6-Trichlorophenol | 90.87 | 190 | 80 | 0 | 114 | 80 | 120 | 0 | | | |
| 2,4-Dichlorophenol | 86.01 | 193 | 80 | 0 | 108 | 80 | 120 | 0 | | | |
| 2,4-Dimethylphenol | 70.96 | 222 | 80 | 0 | 88.7 | | | 0 | | | |
| 2,4-Dinitrophenol | 82.33 | 152 | 80 | 0 | 103 | | | 0 | | | |
| 2,4-Dinitrotoluene | 82.7 | 108 | 80 | 0 | 103 | | | 0 | | | |
| 2,6-Dinitrotoluene | 78.63 | 211 | 80 | 0 | 98.3 | | | 0 | | | |
| 2-Chloronaphthalene | 82.83 | 142 | 80 | 0 | 104 | | | 0 | | | |
| 2-Chlorophenol | 84.82 | 495 | 80 | 0 | 106 | | | 0 | | | |
| 2-Methylnaphthalene | 86.51 | 189 | 80 | 0 | 108 | | | 0 | | | |
| 2-Nitroaniline | 81.72 | 95.1 | 80 | 0 | 102 | | | 0 | | | |
| 2-Nitrophenol | 80.53 | 128 | 80 | 0 | 101 | 80 | 120 | 0 | | | |
| 3,3-Dichlorobenzidine | 80.08 | 176 | 80 | 0 | 100 | | | 0 | | | |
| 3-Nitroaniline | 85.1 | 118 | 80 | 0 | 106 | | | 0 | | | |
| 4,6-Dinitro-2-methylphenol | 79.18 | 107 | 80 | 0 | 99 | | | 0 | | | |
| 4-Bromophenyl phenyl ether | 92.79 | 74.4 | 80 | 0 | 116 | | | 0 | | | |
| 4-Chloro-3-methylphenol | 93.05 | 277 | 80 | 0 | 116 | 80 | 120 | 0 | | | |
| 4-Chloroaniline | 78.74 | 106 | 80 | 0 | 98.4 | | | 0 | | | |
| 4-Chlorophenyl phenyl ether | 89.67 | 82.8 | 80 | 0 | 112 | | | 0 | | | |
| 4-Nitroaniline | 70.08 | 149 | 80 | 0 | 87.6 | | | 0 | | | |
| 4-Nitrophenol | 104.3 | 108 | 80 | 0 | 130 | | | 0 | | | |
| Acenaphthene | 85.73 | 121 | 80 | 0 | 107 | 80 | 120 | 0 | | | |
| Acenaphthylene | 84.5 | 162 | 80 | 0 | 106 | | | 0 | | | |
| Anthracene | 77.14 | 142 | 80 | 0 | 96.4 | | | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 42.87 | 1.17 | 50 | 0 | 85.7 | | | 0 |
| n-Propylbenzene | 39.89 | 0.999 | 50 | 0 | 79.8 | | | 0 |
| Naphthalene | 43.19 | 1.14 | 50 | 0 | 86.4 | | | 0 |
| o-Xylene | 46.02 | 1.64 | 50 | 0 | 92 | | | 0 |
| Pentachloroethane | 43.8 | 2.06 | 50 | 0 | 87.6 | | | 0 |
| sec-Butylbenzene | 41.9 | 0.655 | 50 | 0 | 83.8 | | | 0 |
| Styrene | 46.21 | 1.02 | 50 | 0 | 92.4 | | | 0 |
| tert-Butylbenzene | 41.66 | 0.758 | 50 | 0 | 83.3 | | | 0 |
| Tetrachloroethene | 42.69 | 2.41 | 50 | 0 | 85.4 | | | 0 |
| Tetrahydrofuran | 34.55 | 2.5 | 50 | 0 | 69.1 | | | 0 |
| Toluene | 44.68 | 1.15 | 50 | 0 | 89.4 | 80 | 120 | 0 |
| trans-1,2-Dichloroethene | 47.1 | 1.63 | 50 | 0 | 94.2 | | | 0 |
| trans-1,3-Dichloropropene | 38.93 | 1.05 | 50 | 0 | 77.9 | | | 0 |
| Trichloroethene | 41.86 | 1.55 | 50 | 0 | 83.7 | | | 0 |
| Trichlorofluoromethane | 43.75 | 1.01 | 50 | 0 | 87.5 | | | 0 |
| Vinyl acetate | 34.81 | 3 | 50 | 0 | 69.6 | | | 0 |
| Vinyl chloride | 42.63 | 1.27 | 50 | 0 | 85.3 | 80 | 120 | 0 |
| Surr: 4-Bromofluorobenzene | 50.83 | 0 | 50 | 0 | 102 | | | 0 |
| Surr: Dibromofluoromethane | 50.14 | 0 | 50 | 0 | 100 | | | 0 |
| Surr: Toluene-d8 | 45.64 | 0 | 50 | 0 | 91.3 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Acetone | 46.66 | 8.88 | 50 | 0 | 93.3 | | | 0 |
| Acrolein | 36.04 | 5.13 | 50 | 0 | 72.1 | | | 0 |
| Acrylonitrile | 33.34 | 3.09 | 50 | 0 | 66.7 | | | 0 |
| Allyl Chloride | 43.74 | 2.1 | 50 | 0 | 87.5 | | | 0 |
| Benzene | 42.88 | 0.95 | 50 | 0 | 85.8 | | | 0 |
| Bromobenzene | 42.01 | 1.31 | 50 | 0 | 84 | | | 0 |
| Bromochloromethane | 46.04 | 0.996 | 50 | 0 | 92.1 | | | 0 |
| Bromodichloromethane | 42.85 | 0.607 | 50 | 0 | 85.7 | | | 0 |
| Bromoform | 35.39 | 1.5 | 50 | 0 | 70.8 | | | 0 |
| Bromomethane | 50.09 | 7.34 | 50 | 0 | 100 | | | 0 |
| Carbon disulfide | 50.25 | 1.2 | 50 | 0 | 100 | | | 0 |
| Carbon tetrachloride | 43.56 | 1.15 | 50 | 0 | 87.1 | | | 0 |
| Chlorobenzene | 44.13 | 1.08 | 50 | 0 | 88.3 | | | 0 |
| Chloroethane | 49.31 | 12.1 | 50 | 0 | 98.6 | | | 0 |
| Chloroform | 44.44 | 0.67 | 50 | 0 | 88.9 | 80 | 120 | 0 |
| Chloromethane | 40.14 | 3.29 | 50 | 0 | 80.3 | | | 0 |
| cis-1,2-Dichloroethene | 46.57 | 0.86 | 50 | 0 | 93.1 | | | 0 |
| cis-1,3-Dichloropropene | 43.21 | 0.874 | 50 | 0 | 86.4 | | | 0 |
| Dibromochloromethane | 41.74 | 1.03 | 50 | 0 | 83.5 | | | 0 |
| Dibromomethane | 43.53 | 1.26 | 50 | 0 | 87.1 | | | 0 |
| Dichlorodifluoromethane | 48.85 | 2.02 | 50 | 0 | 97.7 | | | 0 |
| Ethyl methacrylate | 39.98 | 1.23 | 50 | 0 | 80 | | | 0 |
| Ethylbenzene | 41.66 | 1.13 | 50 | 0 | 83.3 | 80 | 120 | 0 |
| Hexachlorobutadiene | 43.73 | 1.92 | 50 | 0 | 87.5 | | | 0 |
| Hexachloroethane | 41.99 | 0.819 | 50 | 0 | 84 | | | 0 |
| Iodomethane | 62.23 | 3.09 | 50 | 0 | 124 | | | 0 |
| Isopropylbenzene | 39.57 | 0.61 | 50 | 0 | 79.1 | | | 0 |
| m,p-Xylene | 86 | 2.56 | 50 | 0 | 172 | | | 0 |
| Methyl acrylate | 35.84 | 1.2 | 50 | 0 | 71.7 | | | 0 |
| Methyl acrylonitrile | 33.29 | 1.85 | 50 | 0 | 66.6 | | | 0 |
| Methyl methacrylate | 37.03 | 2.58 | 50 | 0 | 74.1 | | | 0 |
| Methyl tert-butyl ether | 28.39 | 0.786 | 50 | 0 | 56.8 | | | 0 |
| Methylene chloride | 38.76 | 1.18 | 50 | 0 | 77.5 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Continuing Calibration Verification Standard

Sample ID: **8260 50 PPB** Batch ID: **R22106** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/27/02 11:25:00 AM** Prep Date:

Client ID: Run ID: **GCMS5_021227A** SeqNo: **341390**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 47.02 | 0.893 | 50 | 0 | 94 | | | 0 | | | |
| 1,1,1-Trichloroethane | 42.25 | 0.666 | 50 | 0 | 84.5 | | | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 35.42 | 0.992 | 50 | 0 | 70.8 | | | 0 | | | |
| 1,1,2-Trichloroethane | 41.99 | 2.08 | 50 | 0 | 84 | | | 0 | | | |
| 1,1-Dichloroethane | 44.52 | 0.719 | 50 | 0 | 89 | | | 0 | | | |
| 1,1-Dichloroethene | 46.34 | 1.54 | 50 | 0 | 92.7 | 80 | 120 | 0 | | | |
| 1,1-Dichloropropene | 43.07 | 1.68 | 50 | 0 | 86.1 | | | 0 | | | |
| 1,2,3-Trichlorobenzene | 50.11 | 2.35 | 50 | 0 | 100 | | | 0 | | | |
| 1,2,3-Trichloropropane | 34.15 | 0.725 | 50 | 0 | 68.3 | | | 0 | | | |
| 1,2,4-Trichlorobenzene | 53.54 | 2.92 | 50 | 0 | 107 | | | 0 | | | |
| 1,2,4-Trimethylbenzene | 47.16 | 1.33 | 50 | 0 | 94.3 | | | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 26.89 | 3.01 | 50 | 0 | 53.8 | | | 0 | | | |
| 1,2-Dibromoethane | 47.01 | 0.99 | 50 | 0 | 94 | | | 0 | | | |
| 1,2-Dichlorobenzene | 43.71 | 0.903 | 50 | 0 | 87.4 | | | 0 | | | |
| 1,2-Dichloroethane | 44.4 | 0.876 | 50 | 0 | 88.8 | | | 0 | | | |
| 1,2-Dichloropropane | 42.12 | 1.35 | 50 | 0 | 84.2 | 80 | 120 | 0 | | | |
| 1,3,5-Trimethylbenzene | 41.99 | 0.76 | 50 | 0 | 84 | | | 0 | | | |
| 1,3-Dichlorobenzene | 47.62 | 0.912 | 50 | 0 | 95.2 | | | 0 | | | |
| 1,3-Dichloropropane | 42.88 | 0.916 | 50 | 0 | 85.8 | | | 0 | | | |
| 1,4-Dichlorobenzene | 49.17 | 1.06 | 50 | 0 | 98.3 | | | 0 | | | |
| 2,2-Dichloropropane | 33.1 | 1.05 | 50 | 0 | 66.2 | | | 0 | | | |
| 2-Butanone | 35.77 | 4.53 | 50 | 0 | 71.5 | | | 0 | | | |
| 2-Chloroethyl vinyl ether | 11.15 | 1.34 | 50 | 0 | 22.3 | | | 0 | | | |
| 2-Chlorotoluene | 40.42 | 0.711 | 50 | 0 | 80.8 | | | 0 | | | |
| 2-Hexanone | 31.66 | 2.24 | 50 | 0 | 63.3 | | | 0 | | | |
| 4-Chlorotoluene | 39.76 | 1.04 | 50 | 0 | 79.5 | | | 0 | | | |
| 4-Isopropyltoluene | 44 | 1.43 | 50 | 0 | 88 | | | 0 | | | |
| 4-Methyl-2-pentanone | 41.73 | 1.83 | 50 | 0 | 83.5 | | | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 47.97 | 1.17 | 50 | 0 | 95.9 | | | 0 |
| n-Propylbenzene | 48.69 | 0.999 | 50 | 0 | 97.4 | | | 0 |
| Naphthalene | 41.06 | 1.14 | 50 | 0 | 82.1 | | | 0 |
| o-Xylene | 51.51 | 1.64 | 50 | 0 | 103 | | | 0 |
| Pentachloroethane | 47.85 | 2.06 | 50 | 0 | 95.7 | | | 0 |
| sec-Butylbenzene | 48.24 | 0.655 | 50 | 0 | 96.5 | | | 0 |
| Styrene | 51.64 | 1.02 | 50 | 0 | 103 | | | 0 |
| tert-Butylbenzene | 49.35 | 0.758 | 50 | 0 | 98.7 | | | 0 |
| Tetrachloroethene | 50.98 | 2.41 | 50 | 0 | 102 | | | 0 |
| Tetrahydrofuran | 31.86 | 2.5 | 50 | 0 | 63.7 | | | 0 |
| Toluene | 51.79 | 1.15 | 50 | 0 | 104 | 80 | 120 | 0 |
| trans-1,2-Dichloroethene | 52.36 | 1.63 | 50 | 0 | 105 | | | 0 |
| trans-1,3-Dichloropropene | 42.12 | 1.05 | 50 | 0 | 84.2 | | | 0 |
| Trichloroethene | 48.23 | 1.55 | 50 | 0 | 96.5 | | | 0 |
| Trichlorofluoromethane | 52.85 | 1.01 | 50 | 0 | 106 | | | 0 |
| Vinyl acetate | 33.09 | 3 | 50 | 0 | 66.2 | | | 0 |
| Vinyl chloride | 56.34 | 1.27 | 50 | 0 | 113 | 80 | 120 | 0 |
| Surr: 4-Bromofluorobenzene | 51.18 | 0 | 50 | 0 | 102 | | | 0 |
| Surr: Dibromofluoromethane | 48.8 | 0 | 50 | 0 | 97.6 | | | 0 |
| Surr: Toluene-d8 | 49.8 | 0 | 50 | 0 | 99.6 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Acetone | 58.68 | 8.88 | 50 | 0 | 117 | | | 0 |
| Acrolein | 38.95 | 5.13 | 50 | 0 | 77.9 | | | 0 |
| Acrylonitrile | 34.77 | 3.09 | 50 | 0 | 69.5 | | | 0 |
| Allyl Chloride | 54.3 | 2.1 | 50 | 0 | 109 | | | 0 |
| Benzene | 47.28 | 0.95 | 50 | 0 | 94.6 | | | 0 |
| Bromobenzene | 49.59 | 1.31 | 50 | 0 | 99.2 | | | 0 |
| Bromochloromethane | 48.52 | 0.996 | 50 | 0 | 97 | | | 0 |
| Bromodichloromethane | 46.28 | 0.607 | 50 | 0 | 92.6 | | | 0 |
| Bromoform | 35.08 | 1.5 | 50 | 0 | 70.2 | | | 0 |
| Bromomethane | 62.36 | 7.34 | 50 | 0 | 125 | | | 0 |
| Carbon disulfide | 61.63 | 1.2 | 50 | 0 | 123 | | | 0 |
| Carbon tetrachloride | 49.43 | 1.15 | 50 | 0 | 98.9 | | | 0 |
| Chlorobenzene | 49.35 | 1.08 | 50 | 0 | 98.7 | | | 0 |
| Chloroethane | 58.87 | 12.1 | 50 | 0 | 118 | | | 0 |
| Chloroform | 47.86 | 0.67 | 50 | 0 | 95.7 | 80 | 120 | 0 |
| Chloromethane | 50.79 | 3.29 | 50 | 0 | 102 | | | 0 |
| cis-1,2-Dichloroethene | 50.12 | 0.86 | 50 | 0 | 100 | | | 0 |
| cis-1,3-Dichloropropene | 46.05 | 0.874 | 50 | 0 | 92.1 | | | 0 |
| Dibromochloromethane | 40.87 | 1.03 | 50 | 0 | 81.7 | | | 0 |
| Dibromomethane | 44.1 | 1.26 | 50 | 0 | 88.2 | | | 0 |
| Dichlorodifluoromethane | 62.55 | 2.02 | 50 | 0 | 125 | | | 0 |
| Ethyl methacrylate | 41.38 | 1.23 | 50 | 0 | 82.8 | | | 0 |
| Ethylbenzene | 48.21 | 1.13 | 50 | 0 | 96.4 | 80 | 120 | 0 |
| Hexachlorobutadiene | 45.14 | 1.92 | 50 | 0 | 90.3 | | | 0 |
| Hexachloroethane | 44.82 | 0.819 | 50 | 0 | 89.6 | | | 0 |
| Iodomethane | 84.28 | 3.09 | 50 | 0 | 169 | | | 0 |
| Isopropylbenzene | 49.66 | 0.61 | 50 | 0 | 99.3 | | | 0 |
| m,p-Xylene | 100.6 | 2.56 | 50 | 0 | 201 | | | 0 |
| Methyl acrylate | 35.41 | 1.2 | 50 | 0 | 70.8 | | | 0 |
| Methyl acrylonitrile | 33.45 | 1.85 | 50 | 0 | 66.9 | | | 0 |
| Methyl methacrylate | 39.01 | 2.58 | 50 | 0 | 78 | | | 0 |
| Methyl tert-butyl ether | 25.22 | 0.786 | 50 | 0 | 50.4 | | | 0 |
| Methylene chloride | 39.29 | 1.18 | 50 | 0 | 78.6 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

Sample ID: **8260 50 PPB** Batch ID: **R22101** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/26/02 11:38:00 AM** Prep Date:

Client ID: Run ID: **GCMS5_021226A** SeqNo: **341349**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 51.66 | 0.893 | 50 | 0 | 103 | | | 0 | | | |
| 1,1,1-Trichloroethane | 46.36 | 0.666 | 50 | 0 | 92.7 | | | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 37.93 | 0.992 | 50 | 0 | 75.9 | | | 0 | | | |
| 1,1,2-Trichloroethane | 45.18 | 2.08 | 50 | 0 | 90.4 | | | 0 | | | |
| 1,1-Dichloroethane | 48.91 | 0.719 | 50 | 0 | 97.8 | | | 0 | | | |
| 1,1-Dichloroethene | 55.7 | 1.54 | 50 | 0 | 111 | 80 | 120 | 0 | | | |
| 1,1-Dichloropropene | 49.18 | 1.68 | 50 | 0 | 98.4 | | | 0 | | | |
| 1,2,3-Trichlorobenzene | 47.49 | 2.35 | 50 | 0 | 95 | | | 0 | | | |
| 1,2,3-Trichloropropane | 36.81 | 0.725 | 50 | 0 | 73.6 | | | 0 | | | |
| 1,2,4-Trichlorobenzene | 52.76 | 2.92 | 50 | 0 | 106 | | | 0 | | | |
| 1,2,4-Trimethylbenzene | 54.7 | 1.33 | 50 | 0 | 109 | | | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 26.86 | 3.01 | 50 | 0 | 53.7 | | | 0 | | | |
| 1,2-Dibromoethane | 49.37 | 0.99 | 50 | 0 | 98.7 | | | 0 | | | |
| 1,2-Dichlorobenzene | 46.68 | 0.903 | 50 | 0 | 93.4 | | | 0 | | | |
| 1,2-Dichloroethane | 44.94 | 0.876 | 50 | 0 | 89.9 | | | 0 | | | |
| 1,2-Dichloropropane | 46.16 | 1.35 | 50 | 0 | 92.3 | 80 | 120 | 0 | | | |
| 1,3,5-Trimethylbenzene | 49.98 | 0.76 | 50 | 0 | 100 | | | 0 | | | |
| 1,3-Dichlorobenzene | 54.86 | 0.912 | 50 | 0 | 110 | | | 0 | | | |
| 1,3-Dichloropropane | 44.73 | 0.916 | 50 | 0 | 89.5 | | | 0 | | | |
| 1,4-Dichlorobenzene | 54.71 | 1.06 | 50 | 0 | 109 | | | 0 | | | |
| 2,2-Dichloropropane | 35.96 | 1.05 | 50 | 0 | 71.9 | | | 0 | | | |
| 2-Butanone | 40.84 | 4.53 | 50 | 0 | 81.7 | | | 0 | | | |
| 2-Chloroethyl vinyl ether | 7.35 | 1.34 | 50 | 0 | 14.7 | | | 0 | | | |
| 2-Chlorotoluene | 47.53 | 0.711 | 50 | 0 | 95.1 | | | 0 | | | |
| 2-Hexanone | 33.02 | 2.24 | 50 | 0 | 66 | | | 0 | | | |
| 4-Chlorotoluene | 46.05 | 1.04 | 50 | 0 | 92.1 | | | 0 | | | |
| 4-Isopropyltoluene | 50.52 | 1.43 | 50 | 0 | 101 | | | 0 | | | |
| 4-Methyl-2-pentanone | 41.89 | 1.83 | 50 | 0 | 83.8 | | | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 45.41 | 1.17 | 50 | 0 | 90.8 | | | 0 |
| n-Propylbenzene | 44.85 | 0.999 | 50 | 0 | 89.7 | | | 0 |
| Naphthalene | 42.16 | 1.14 | 50 | 0 | 84.3 | | | 0 |
| o-Xylene | 47.43 | 1.64 | 50 | 0 | 94.9 | | | 0 |
| Pentachloroethane | 47.71 | 2.06 | 50 | 0 | 95.4 | | | 0 |
| sec-Butylbenzene | 45.07 | 0.655 | 50 | 0 | 90.1 | | | 0 |
| Styrene | 47.56 | 1.02 | 50 | 0 | 95.1 | | | 0 |
| tert-Butylbenzene | 45.99 | 0.758 | 50 | 0 | 92 | | | 0 |
| Tetrachloroethene | 42.54 | 2.41 | 50 | 0 | 85.1 | | | 0 |
| Tetrahydrofuran | 41.62 | 2.5 | 50 | 0 | 83.2 | | | 0 |
| Toluene | 46.82 | 1.15 | 50 | 0 | 93.6 | 80 | 120 | 0 |
| trans-1,2-Dichloroethene | 47.88 | 1.63 | 50 | 0 | 95.8 | | | 0 |
| trans-1,3-Dichloropropene | 45.57 | 1.05 | 50 | 0 | 91.1 | | | 0 |
| Trichloroethene | 42.57 | 1.55 | 50 | 0 | 85.1 | | | 0 |
| Trichlorofluoromethane | 42.79 | 1.01 | 50 | 0 | 85.6 | | | 0 |
| Vinyl acetate | 39.21 | 3 | 50 | 0 | 78.4 | | | 0 |
| Vinyl chloride | 44.8 | 1.27 | 50 | 0 | 89.6 | 80 | 120 | 0 |
| Surr: 4-Bromofluorobenzene | 50.24 | 0 | 50 | 0 | 100 | | | 0 |
| Surr: Dibromofluoromethane | 48.77 | 0 | 50 | 0 | 97.5 | | | 0 |
| Surr: Toluene-d8 | 50.81 | 0 | 50 | 0 | 102 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Acetone | 46.56 | 8.88 | 50 | 0 | 93.1 | | | 0 |
| Acrolein | 41.15 | 5.13 | 50 | 0 | 82.3 | | | 0 |
| Acrylonitrile | 39.52 | 3.09 | 50 | 0 | 79 | | | 0 |
| Allyl Chloride | 50.47 | 2.1 | 50 | 0 | 101 | | | 0 |
| Benzene | 44.12 | 0.95 | 50 | 0 | 88.2 | | | 0 |
| Bromobenzene | 47.29 | 1.31 | 50 | 0 | 94.6 | | | 0 |
| Bromochloromethane | 48.33 | 0.996 | 50 | 0 | 96.7 | | | 0 |
| Bromodichloromethane | 48.07 | 0.607 | 50 | 0 | 96.1 | | | 0 |
| Bromoform | 35.97 | 1.5 | 50 | 0 | 71.9 | | | 0 |
| Bromomethane | 45.38 | 7.34 | 50 | 0 | 90.8 | | | 0 |
| Carbon disulfide | 52.43 | 1.2 | 50 | 0 | 105 | | | 0 |
| Carbon tetrachloride | 42.33 | 1.15 | 50 | 0 | 84.7 | | | 0 |
| Chlorobenzene | 46.84 | 1.08 | 50 | 0 | 93.7 | | | 0 |
| Chloroethane | 48.24 | 12.1 | 50 | 0 | 96.5 | | | 0 |
| Chloroform | 49.38 | 0.67 | 50 | 0 | 98.8 | 80 | 120 | 0 |
| Chloromethane | 39.55 | 3.29 | 50 | 0 | 79.1 | | | 0 |
| cis-1,2-Dichloroethene | 48.28 | 0.86 | 50 | 0 | 96.6 | | | 0 |
| cis-1,3-Dichloropropene | 48.39 | 0.874 | 50 | 0 | 96.8 | | | 0 |
| Dibromochloromethane | 43.31 | 1.03 | 50 | 0 | 86.6 | | | 0 |
| Dibromomethane | 46.57 | 1.26 | 50 | 0 | 93.1 | | | 0 |
| Dichlorodifluoromethane | 40.19 | 2.02 | 50 | 0 | 80.4 | | | 0 |
| Ethyl methacrylate | 44.47 | 1.23 | 50 | 0 | 88.9 | | | 0 |
| Ethylbenzene | 42.94 | 1.13 | 50 | 0 | 85.9 | 80 | 120 | 0 |
| Hexachlorobutadiene | 45.96 | 1.92 | 50 | 0 | 91.9 | | | 0 |
| Hexachloroethane | 45.35 | 0.819 | 50 | 0 | 90.7 | | | 0 |
| Iodomethane | 57.57 | 3.09 | 50 | 0 | 115 | | | 0 |
| Isopropylbenzene | 44.66 | 0.61 | 50 | 0 | 89.3 | | | 0 |
| m,p-Xylene | 88.97 | 2.56 | 50 | 0 | 178 | | | 0 |
| Methyl acrylate | 38.5 | 1.2 | 50 | 0 | 77 | | | 0 |
| Methyl acrylonitrile | 41.57 | 1.85 | 50 | 0 | 83.1 | | | 0 |
| Methyl methacrylate | 40.14 | 2.58 | 50 | 0 | 80.3 | | | 0 |
| Methyl tert-butyl ether | 45.01 | 0.786 | 50 | 0 | 90 | | | 0 |
| Methylene chloride | 45.73 | 1.18 | 50 | 0 | 91.5 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Continuing Calibration Verification Standard

Sample ID: **8260 50 PPB** Batch ID: **R22004** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/19/02 5:23:00 PM** Prep Date:

Client ID: Run ID: **GCMS5_021219B** SeqNo: **339496**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 49.29 | 0.893 | 50 | 0 | 98.6 | | | 0 | | | |
| 1,1,1-Trichloroethane | 47.59 | 0.666 | 50 | 0 | 95.2 | | | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 40.99 | 0.992 | 50 | 0 | 82 | | | 0 | | | |
| 1,1,2-Trichloroethane | 47.43 | 2.08 | 50 | 0 | 94.9 | | | 0 | | | |
| 1,1-Dichloroethane | 48.7 | 0.719 | 50 | 0 | 97.4 | | | 0 | | | |
| 1,1-Dichloroethene | 47.69 | 1.54 | 50 | 0 | 95.4 | 80 | 120 | 0 | | | |
| 1,1-Dichloropropene | 43.56 | 1.68 | 50 | 0 | 87.1 | | | 0 | | | |
| 1,2,3-Trichlorobenzene | 45.66 | 2.35 | 50 | 0 | 91.3 | | | 0 | | | |
| 1,2,3-Trichloropropane | 40.15 | 0.725 | 50 | 0 | 80.3 | | | 0 | | | |
| 1,2,4-Trichlorobenzene | 52.69 | 2.92 | 50 | 0 | 105 | | | 0 | | | |
| 1,2,4-Trimethylbenzene | 50.11 | 1.33 | 50 | 0 | 100 | | | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 30.49 | 3.01 | 50 | 0 | 61 | | | 0 | | | |
| 1,2-Dibromoethane | 51.95 | 0.99 | 50 | 0 | 104 | | | 0 | | | |
| 1,2-Dichlorobenzene | 46.96 | 0.903 | 50 | 0 | 93.9 | | | 0 | | | |
| 1,2-Dichloroethane | 45.83 | 0.876 | 50 | 0 | 91.7 | | | 0 | | | |
| 1,2-Dichloropropane | 46.77 | 1.35 | 50 | 0 | 93.5 | 80 | 120 | 0 | | | |
| 1,3,5-Trimethylbenzene | 45.77 | 0.76 | 50 | 0 | 91.5 | | | 0 | | | |
| 1,3-Dichlorobenzene | 51.44 | 0.912 | 50 | 0 | 103 | | | 0 | | | |
| 1,3-Dichloropropane | 45.33 | 0.916 | 50 | 0 | 90.7 | | | 0 | | | |
| 1,4-Dichlorobenzene | 51.08 | 1.06 | 50 | 0 | 102 | | | 0 | | | |
| 2,2-Dichloropropane | 43.52 | 1.05 | 50 | 0 | 87 | | | 0 | | | |
| 2-Butanone | 38.88 | 4.53 | 50 | 0 | 77.8 | | | 0 | | | |
| 2-Chloroethyl vinyl ether | 27.03 | 1.34 | 50 | 0 | 54.1 | | | 0 | | | |
| 2-Chlorotoluene | 44.18 | 0.711 | 50 | 0 | 88.4 | | | 0 | | | |
| 2-Hexanone | 35.16 | 2.24 | 50 | 0 | 70.3 | | | 0 | | | |
| 4-Chlorotoluene | 45.44 | 1.04 | 50 | 0 | 90.9 | | | 0 | | | |
| 4-Isopropyltoluene | 46.19 | 1.43 | 50 | 0 | 92.4 | | | 0 | | | |
| 4-Methyl-2-pentanone | 41.96 | 1.83 | 50 | 0 | 83.9 | | | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

Sample ID: **PCB STD 4 06-10-** Batch ID: **R21967** Test Code: **SW8082** Units: **µg/Kg** Analysis Date **12/20/02 7:21:00 AM** Prep Date:

Client ID: Run ID: **GC_HP_2_021219A** SeqNo: **338604**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 1.663 | 300 | 2 | 0 | 83.1 | 85 | 115 | 0 | | | S |
| Aroclor 1221 | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aroclor 1232 | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aroclor 1242 | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aroclor 1248 | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aroclor 1254 | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aroclor 1260 | 1.818 | 300 | 2 | 0 | 90.9 | 85 | 115 | 0 | | | |
| Surr: Tetrachloro-m-xylene | 0.066 | 0 | 0.08 | 0 | 82.5 | 85 | 115 | 0 | | | S |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

Sample ID: **pcb std 3 06-10-08** Batch ID: **R21967** Test Code: **SW8082** Units: **µg/Kg** Analysis Date **12/19/02** Prep Date:
Client ID: Run ID: **GC_HP_2_021219A** SeqNo: **338586**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 1.075 | 300 | 1 | 0 | 108 | 85 | 115 | 0 | | | |
| Aroclor 1221 | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aroclor 1232 | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aroclor 1242 | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aroclor 1248 | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aroclor 1254 | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aroclor 1260 | 1.116 | 300 | 1 | 0 | 112 | 85 | 115 | 0 | | | |
| Surr: Tetrachloro-m-xylene | 0.04049 | 0 | 0.04 | 0 | 101 | 85 | 115 | 0 | | | |

Sample ID: **PCB STD 2 06-10-** Batch ID: **R21967** Test Code: **SW8082** Units: **µg/Kg** Analysis Date **12/19/02 8:50:00 PM** Prep Date:
Client ID: Run ID: **GC_HP_2_021219A** SeqNo: **338595**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 0.502 | 300 | 0.5 | 0 | 100 | 85 | 115 | 0 | | | |
| Aroclor 1221 | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aroclor 1232 | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aroclor 1242 | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aroclor 1248 | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aroclor 1254 | ND | 300 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Aroclor 1260 | 0.499 | 300 | 0.5 | 0 | 99.8 | 85 | 115 | 0 | | | |
| Surr: Tetrachloro-m-xylene | 0.018 | 0 | 0.02 | 0 | 90 | 85 | 115 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:**
**Work Order:**
**Project:**

# QC SUMMARY REPORT

#Error

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

Sample ID: **LCS-7694** Batch ID: **7694** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/26/02 5:55:00 PM** Prep Date: **12/26/02**
Client ID: Run ID: **SV_3_021226A** SeqNo: **341343**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 897.7 | 120 | 1000 | 0 | 89.8 | 70 | 130 | 0 | | | |
| Acenaphthylene | 996 | 120 | 1000 | 0 | 99.6 | 70 | 130 | 0 | | | |
| Anthracene | 821.4 | 120 | 1000 | 0 | 82.1 | 70 | 130 | 0 | | | |
| Benzo(a)anthracene | 918.6 | 120 | 1000 | 0 | 91.9 | 70 | 130 | 0 | | | |
| Benzo(a)pyrene | 762.8 | 120 | 1000 | 0 | 76.3 | 70 | 130 | 0 | | | |
| Benzo(b)fluoranthene | 893.1 | 120 | 1000 | 0 | 89.3 | 70 | 130 | 0 | | | |
| Benzo(g,h,i)perylene | 809.6 | 120 | 1000 | 0 | 81 | 70 | 130 | 0 | | | |
| Benzo(k)fluoranthene | 838.7 | 120 | 1000 | 0 | 83.9 | 70 | 130 | 0 | | | |
| Chrysene | 827.2 | 120 | 1000 | 0 | 82.7 | 70 | 130 | 0 | | | |
| Dibenzo(a,h)anthracene | 736 | 120 | 1000 | 0 | 73.6 | 70 | 130 | 0 | | | |
| Fluoranthene | 962.1 | 120 | 1000 | 0 | 96.2 | 70 | 130 | 0 | | | |
| Fluorene | 938.3 | 120 | 1000 | 0 | 93.8 | 70 | 130 | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 787.9 | 120 | 1000 | 0 | 78.8 | 70 | 130 | 0 | | | |
| Naphthalene | 848.9 | 120 | 1000 | 0 | 84.9 | 70 | 130 | 0 | | | |
| Phenanthrene | 1007 | 120 | 1000 | 0 | 101 | 70 | 130 | 0 | | | |
| Pyrene | 927.6 | 120 | 1000 | 0 | 92.8 | 70 | 130 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 2084 | 0 | 2000 | 0 | 104 | 70 | 130 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 2142 | 0 | 2000 | 0 | 107 | 70 | 130 | 0 | | | |
| Surr: Nitrobenzene-d5 | 2010 | 0 | 2000 | 0 | 100 | 70 | 130 | 0 | | | |

Sample ID: **LCS** Batch ID: **7688** Test Code: **SW1311/7421** Units: **mg/L** Analysis Date **12/26/02 6:05:00 PM** Prep Date: **12/26/02**
Client ID: Run ID: **GFAA1_021226A** SeqNo: **340653**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.0291 | 0.006 | 0.03 | 0 | 97 | 87 | 117 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

Sample ID: **LCS-7653** Batch ID: **7653** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/19/02 5:46:00 PM** Prep Date: **12/19/02**

Client ID: Run ID: **SV_3_021219A** SeqNo: **338645**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 961.7 | 120 | 1000 | 0 | 96.2 | 70 | 130 | 0 | | | |
| Acenaphthylene | 993.6 | 120 | 1000 | 0 | 99.4 | 70 | 130 | 0 | | | |
| Anthracene | 909.1 | 120 | 1000 | 0 | 90.9 | 70 | 130 | 0 | | | |
| Benzo(a)anthracene | 841.3 | 120 | 1000 | 0 | 84.1 | 70 | 130 | 0 | | | |
| Benzo(a)pyrene | 850.3 | 120 | 1000 | 0 | 85 | 70 | 130 | 0 | | | |
| Benzo(b)fluoranthene | 842.2 | 120 | 1000 | 0 | 84.2 | 70 | 130 | 0 | | | |
| Benzo(g,h,i)perylene | 955.9 | 120 | 1000 | 0 | 95.6 | 70 | 130 | 0 | | | |
| Benzo(k)fluoranthene | 906.6 | 120 | 1000 | 0 | 90.7 | 70 | 130 | 0 | | | |
| Chrysene | 904.5 | 120 | 1000 | 0 | 90.5 | 70 | 130 | 0 | | | |
| Dibenzo(a,h)anthracene | 822.4 | 120 | 1000 | 0 | 82.2 | 70 | 130 | 0 | | | |
| Fluoranthene | 936.3 | 120 | 1000 | 0 | 93.6 | 70 | 130 | 0 | | | |
| Fluorene | 947.1 | 120 | 1000 | 0 | 94.7 | 70 | 130 | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 881.6 | 120 | 1000 | 0 | 88.2 | 70 | 130 | 0 | | | |
| Naphthalene | 904.7 | 120 | 1000 | 0 | 90.5 | 70 | 130 | 0 | | | |
| Phenanthrene | 1003 | 120 | 1000 | 0 | 100 | 70 | 130 | 0 | | | |
| Pyrene | 1122 | 120 | 1000 | 0 | 112 | 70 | 130 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 1943 | 0 | 2000 | 0 | 97.1 | 70 | 130 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 1352 | 0 | 2000 | 0 | 67.6 | 70 | 130 | 0 | | | S |
| Surr: Nitrobenzene-d5 | 1773 | 0 | 2000 | 0 | 88.6 | 70 | 130 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

Sample ID: **LCS-7695** Batch ID: **7695** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/27/02 1:51:00 PM** Prep Date: **12/24/02**

Client ID: Run ID: **SV_1_021227A** SeqNo: **341296**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 2819 | 256 | 3330 | 0 | 84.7 | 44 | 115 | 0 | | | |
| 1,4-Dichlorobenzene | 2809 | 221 | 3330 | 0 | 84.4 | 44 | 110 | 0 | | | |
| 2,4-Dinitrotoluene | 2706 | 108 | 3330 | 0 | 81.3 | 47 | 130 | 0 | | | |
| 2-Chlorophenol | 2866 | 495 | 3330 | 0 | 86.1 | 29 | 107 | 0 | | | |
| 4-Chloro-3-methylphenol | 3136 | 277 | 3330 | 0 | 94.2 | 44 | 111 | 0 | | | |
| 4-Nitrophenol | 692 | 108 | 3330 | 0 | 20.8 | 33 | 173 | 0 | | | S |
| Acenaphthene | 2925 | 121 | 3330 | 0 | 87.8 | 51 | 125 | 0 | | | |
| N-Nitrosodi-n-propylamine | 2919 | 245 | 3330 | 0 | 87.6 | 42 | 149 | 0 | | | |
| Pentachlorophenol | ND | 109 | 3330 | 0 | 0 | 36 | 144 | 0 | | | S |
| Phenol | 2743 | 115 | 3330 | 0 | 82.4 | 39 | 107 | 0 | | | |
| Pyrene | 2160 | 124 | 3330 | 0 | 64.9 | 34 | 123 | 0 | | | |
| Surr: 2,4,6-Tribromophenol | 6448 | 0 | 3330 | 0 | 194 | 20 | 117 | 0 | | | S |
| Surr: 2-Fluorobiphenyl | 9136 | 0 | 3330 | 0 | 274 | 47 | 128 | 0 | | | S |
| Surr: 2-Fluorophenol | 8236 | 0 | 3330 | 0 | 247 | 41 | 108 | 0 | | | S |
| Surr: 4-Terphenyl-d14 | 11110 | 0 | 3330 | 0 | 334 | 5 | 131 | 0 | | | S |
| Surr: Nitrobenzene-d5 | 8210 | 0 | 3330 | 0 | 247 | 32 | 120 | 0 | | | S |
| Surr: Phenol-d5 | 9521 | 0 | 3330 | 0 | 286 | 52 | 116 | 0 | | | S |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 17.27 | 1.17 | 20 | 0 | 86.4 | | | 0 |
| n-Propylbenzene | 16.86 | 0.999 | 20 | 0 | 84.3 | | | 0 |
| Naphthalene | 20.1 | 1.14 | 20 | 0 | 101 | | | 0 |
| o-Xylene | 18.45 | 1.64 | 20 | 0 | 92.2 | | | 0 |
| Pentachloroethane | 17.78 | 2.06 | 20 | 0 | 88.9 | | | 0 |
| sec-Butylbenzene | 17.37 | 0.655 | 20 | 0 | 86.9 | | | 0 |
| Styrene | 18.74 | 1.02 | 20 | 0 | 93.7 | | | 0 |
| tert-Butylbenzene | 17.47 | 0.758 | 20 | 0 | 87.4 | | | 0 |
| Tetrachloroethene | 18.69 | 2.41 | 20 | 0 | 93.5 | | | 0 |
| Tetrahydrofuran | 12.4 | 2.5 | 20 | 0 | 62 | | | 0 |
| Toluene | 18.15 | 1.15 | 20 | 0 | 90.8 | 70 | 130 | 0 |
| trans-1,2-Dichloroethene | 17.75 | 1.63 | 20 | 0 | 88.8 | | | 0 |
| trans-1,3-Dichloropropene | 15.22 | 1.05 | 20 | 0 | 76.1 | | | 0 |
| Trichloroethene | 18.03 | 1.55 | 20 | 0 | 90.2 | 70 | 130 | 0 |
| Trichlorofluoromethane | 16.67 | 1.01 | 20 | 0 | 83.4 | | | 0 |
| Vinyl acetate | 12.38 | 3 | 20 | 0 | 61.9 | | | 0 |
| Vinyl chloride | 17.72 | 1.27 | 20 | 0 | 88.6 | | | 0 |
| Surr: 4-Bromofluorobenzene | 50.83 | 0 | 50 | 0 | 102 | 70 | 130 | 0 |
| Surr: Dibromofluoromethane | 50.3 | 0 | 50 | 0 | 101 | 70 | 130 | 0 |
| Surr: Toluene-d8 | 47.39 | 0 | 50 | 0 | 94.8 | 70 | 130 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Acetone | 16.13 | 8.88 | 20 | 0 | 80.6 | | | 0 |
| Acrolein | 16.26 | 5.13 | 20 | 0 | 81.3 | | | 0 |
| Acrylonitrile | 14.11 | 3.09 | 20 | 0 | 70.6 | | | 0 |
| Allyl Chloride | 15.84 | 2.1 | 20 | 0 | 79.2 | | | 0 |
| Benzene | 18.21 | 0.95 | 20 | 0 | 91.1 | 70 | 130 | 0 |
| Bromobenzene | 18.17 | 1.31 | 20 | 0 | 90.9 | | | 0 |
| Bromochloromethane | 18.37 | 0.996 | 20 | 0 | 91.9 | | | 0 |
| Bromodichloromethane | 18.09 | 0.607 | 20 | 0 | 90.4 | | | 0 |
| Bromoform | 13.99 | 1.5 | 20 | 0 | 70 | | | 0 |
| Bromomethane | 18.04 | 7.34 | 20 | 0 | 90.2 | | | 0 |
| Carbon disulfide | 19.57 | 1.2 | 20 | 0 | 97.9 | | | 0 |
| Carbon tetrachloride | 18.22 | 1.15 | 20 | 0 | 91.1 | | | 0 |
| Chlorobenzene | 18.32 | 1.08 | 20 | 0 | 91.6 | 70 | 130 | 0 |
| Chloroethane | 19.38 | 12.1 | 20 | 0 | 96.9 | | | 0 |
| Chloroform | 18.55 | 0.67 | 20 | 0 | 92.8 | | | 0 |
| Chloromethane | 16.55 | 3.29 | 20 | 0 | 82.8 | | | 0 |
| cis-1,2-Dichloroethene | 18.97 | 0.86 | 20 | 0 | 94.8 | | | 0 |
| cis-1,3-Dichloropropene | 17.97 | 0.874 | 20 | 0 | 89.8 | | | 0 |
| Dibromochloromethane | 18.39 | 1.03 | 20 | 0 | 92 | | | 0 |
| Dibromomethane | 18.47 | 1.26 | 20 | 0 | 92.4 | | | 0 |
| Dichlorodifluoromethane | 19.93 | 2.02 | 20 | 0 | 99.6 | | | 0 |
| Ethyl methacrylate | 16.24 | 1.23 | 20 | 0 | 81.2 | | | 0 |
| Ethylbenzene | 17.67 | 1.13 | 20 | 0 | 88.4 | | | 0 |
| Hexachlorobutadiene | 20.39 | 1.92 | 20 | 0 | 102 | | | 0 |
| Hexachloroethane | 17.43 | 0.819 | 20 | 0 | 87.1 | | | 0 |
| Iodomethane | 39.43 | 3.09 | 20 | 0 | 197 | | | 0 |
| Isopropylbenzene | 16.76 | 0.61 | 20 | 0 | 83.8 | | | 0 |
| m,p-Xylene | 35.43 | 2.56 | 20 | 0 | 177 | | | 0 |
| Methyl acrylate | 14.61 | 1.2 | 20 | 0 | 73 | | | 0 |
| Methyl acrylonitrile | 14.08 | 1.85 | 20 | 0 | 70.4 | | | 0 |
| Methyl methacrylate | 16.24 | 2.58 | 20 | 0 | 81.2 | | | 0 |
| Methyl tert-butyl ether | 11.48 | 0.786 | 20 | 0 | 57.4 | | | 0 |
| Methylene chloride | 6.01 | 1.18 | 20 | 0 | 30 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

Sample ID: **8260 LCS** Batch ID: **R22106** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/27/02 12:22:00 PM** Prep Date:

Client ID: Run ID: **GCMS5_021227A** SeqNo: **341391**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 19.52 | 0.893 | 20 | 0 | 97.6 | | | 0 | | | |
| 1,1,1-Trichloroethane | 17.64 | 0.666 | 20 | 0 | 88.2 | | | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 15.45 | 0.992 | 20 | 0 | 77.2 | | | 0 | | | |
| 1,1,2-Trichloroethane | 17.25 | 2.08 | 20 | 0 | 86.2 | | | 0 | | | |
| 1,1-Dichloroethane | 17 | 0.719 | 20 | 0 | 85 | | | 0 | | | |
| 1,1-Dichloroethene | 16.77 | 1.54 | 20 | 0 | 83.9 | 70 | 130 | 0 | | | |
| 1,1-Dichloropropene | 17.87 | 1.68 | 20 | 0 | 89.4 | | | 0 | | | |
| 1,2,3-Trichlorobenzene | 19.79 | 2.35 | 20 | 0 | 98.9 | | | 0 | | | |
| 1,2,3-Trichloropropane | 14.51 | 0.725 | 20 | 0 | 72.6 | | | 0 | | | |
| 1,2,4-Trichlorobenzene | 23.44 | 2.92 | 20 | 0 | 117 | | | 0 | | | |
| 1,2,4-Trimethylbenzene | 18.84 | 1.33 | 20 | 0 | 94.2 | | | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 13.08 | 3.01 | 20 | 0 | 65.4 | | | 0 | | | |
| 1,2-Dibromoethane | 18.94 | 0.99 | 20 | 0 | 94.7 | | | 0 | | | |
| 1,2-Dichlorobenzene | 19.06 | 0.903 | 20 | 0 | 95.3 | | | 0 | | | |
| 1,2-Dichloroethane | 18.93 | 0.876 | 20 | 0 | 94.6 | | | 0 | | | |
| 1,2-Dichloropropane | 18.06 | 1.35 | 20 | 0 | 90.3 | | | 0 | | | |
| 1,3,5-Trimethylbenzene | 17.53 | 0.76 | 20 | 0 | 87.6 | | | 0 | | | |
| 1,3-Dichlorobenzene | 20.43 | 0.912 | 20 | 0 | 102 | | | 0 | | | |
| 1,3-Dichloropropane | 19.15 | 0.916 | 20 | 0 | 95.7 | | | 0 | | | |
| 1,4-Dichlorobenzene | 20.29 | 1.06 | 20 | 0 | 101 | | | 0 | | | |
| 2,2-Dichloropropane | 13.46 | 1.05 | 20 | 0 | 67.3 | | | 0 | | | |
| 2-Butanone | 14.78 | 4.53 | 20 | 0 | 73.9 | | | 0 | | | |
| 2-Chloroethyl vinyl ether | 4.48 | 1.34 | 20 | 0 | 22.4 | | | 0 | | | |
| 2-Chlorotoluene | 16.95 | 0.711 | 20 | 0 | 84.7 | | | 0 | | | |
| 2-Hexanone | 14.6 | 2.24 | 20 | 0 | 73 | | | 0 | | | |
| 4-Chlorotoluene | 16.72 | 1.04 | 20 | 0 | 83.6 | | | 0 | | | |
| 4-Isopropyltoluene | 17.75 | 1.43 | 20 | 0 | 88.8 | | | 0 | | | |
| 4-Methyl-2-pentanone | 16.63 | 1.83 | 20 | 0 | 83.1 | | | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 19.01 | 1.17 | 20 | 0 | 95.1 | | | 0 |
| n-Propylbenzene | 19.91 | 0.999 | 20 | 0 | 99.6 | | | 0 |
| Naphthalene | 17.32 | 1.14 | 20 | 0 | 86.6 | | | 0 |
| o-Xylene | 22.2 | 1.64 | 20 | 0 | 111 | | | 0 |
| Pentachloroethane | 22.49 | 2.06 | 20 | 0 | 112 | | | 0 |
| sec-Butylbenzene | 20.57 | 0.655 | 20 | 0 | 103 | | | 0 |
| Styrene | 22 | 1.02 | 20 | 0 | 110 | | | 0 |
| tert-Butylbenzene | 20.92 | 0.758 | 20 | 0 | 105 | | | 0 |
| Tetrachloroethene | 19.84 | 2.41 | 20 | 0 | 99.2 | | | 0 |
| Tetrahydrofuran | 18.49 | 2.5 | 20 | 0 | 92.4 | | | 0 |
| Toluene | 23.42 | 1.15 | 20 | 0 | 117 | 70 | 130 | 0 |
| trans-1,2-Dichloroethene | 23.86 | 1.63 | 20 | 0 | 119 | | | 0 |
| trans-1,3-Dichloropropene | 19.96 | 1.05 | 20 | 0 | 99.8 | | | 0 |
| Trichloroethene | 21.09 | 1.55 | 20 | 0 | 105 | 70 | 130 | 0 |
| Trichlorofluoromethane | 22.68 | 1.01 | 20 | 0 | 113 | | | 0 |
| Vinyl acetate | 15.32 | 3 | 20 | 0 | 76.6 | | | 0 |
| Vinyl chloride | 24.99 | 1.27 | 20 | 0 | 125 | | | 0 |
| Surr: 4-Bromofluorobenzene | 52.8 | 0 | 50 | 0 | 106 | 70 | 130 | 0 |
| Surr: Dibromofluoromethane | 55.56 | 0 | 50 | 0 | 111 | 70 | 130 | 0 |
| Surr: Toluene-d8 | 53.68 | 0 | 50 | 0 | 107 | 70 | 130 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Acetone | 18.39 | 8.88 | 20 | 0 | 92 | | | 0 |
| Acrolein | 23.47 | 5.13 | 20 | 0 | 117 | | | 0 |
| Acrylonitrile | 17.97 | 3.09 | 20 | 0 | 89.8 | | | 0 |
| Allyl Chloride | 23.83 | 2.1 | 20 | 0 | 119 | | | 0 |
| Benzene | 21.25 | 0.95 | 20 | 0 | 106 | 70 | 130 | 0 |
| Bromobenzene | 21.46 | 1.31 | 20 | 0 | 107 | | | 0 |
| Bromochloromethane | 24.18 | 0.996 | 20 | 0 | 121 | | | 0 |
| Bromodichloromethane | 23.64 | 0.607 | 20 | 0 | 118 | | | 0 |
| Bromoform | 20.31 | 1.5 | 20 | 0 | 102 | | | 0 |
| Bromomethane | 21.36 | 7.34 | 20 | 0 | 107 | | | 0 |
| Carbon disulfide | 31.22 | 1.2 | 20 | 0 | 156 | | | 0 |
| Carbon tetrachloride | 21.56 | 1.15 | 20 | 0 | 108 | | | 0 |
| Chlorobenzene | 21.22 | 1.08 | 20 | 0 | 106 | 70 | 130 | 0 |
| Chloroethane | 27.29 | 12.1 | 20 | 0 | 136 | | | 0 |
| Chloroform | 22.67 | 0.67 | 20 | 0 | 113 | | | 0 |
| Chloromethane | 21 | 3.29 | 20 | 0 | 105 | | | 0 |
| cis-1,2-Dichloroethene | 23.4 | 0.86 | 20 | 0 | 117 | | | 0 |
| cis-1,3-Dichloropropene | 22.53 | 0.874 | 20 | 0 | 113 | | | 0 |
| Dibromochloromethane | 22.01 | 1.03 | 20 | 0 | 110 | | | 0 |
| Dibromomethane | 23.93 | 1.26 | 20 | 0 | 120 | | | 0 |
| Dichlorodifluoromethane | 25.35 | 2.02 | 20 | 0 | 127 | | | 0 |
| Ethyl methacrylate | 20.74 | 1.23 | 20 | 0 | 104 | | | 0 |
| Ethylbenzene | 20.44 | 1.13 | 20 | 0 | 102 | | | 0 |
| Hexachlorobutadiene | 18.74 | 1.92 | 20 | 0 | 93.7 | | | 0 |
| Hexachloroethane | 21.16 | 0.819 | 20 | 0 | 106 | | | 0 |
| Iodomethane | 37.65 | 3.09 | 20 | 0 | 188 | | | 0 |
| Isopropylbenzene | 20.3 | 0.61 | 20 | 0 | 102 | | | 0 |
| m,p-Xylene | 41.85 | 2.56 | 20 | 0 | 209 | | | 0 |
| Methyl acrylate | 18.42 | 1.2 | 20 | 0 | 92.1 | | | 0 |
| Methyl acrylonitrile | 17.47 | 1.85 | 20 | 0 | 87.4 | | | 0 |
| Methyl methacrylate | 19.82 | 2.58 | 20 | 0 | 99.1 | | | 0 |
| Methyl tert-butyl ether | 13.3 | 0.786 | 20 | 0 | 66.5 | | | 0 |
| Methylene chloride | 13.09 | 1.18 | 20 | 0 | 65.4 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

Sample ID: **LCS** Batch ID: **R22101** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/26/02 5:44:00 PM** Prep Date:

Client ID: Run ID: **GCMS5_021226A** SeqNo: **341350**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 23.16 | 0.893 | 20 | 0 | 116 | | | 0 | | | |
| 1,1,1-Trichloroethane | 20.83 | 0.666 | 20 | 0 | 104 | | | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 19.71 | 0.992 | 20 | 0 | 98.6 | | | 0 | | | |
| 1,1,2-Trichloroethane | 24.08 | 2.08 | 20 | 0 | 120 | | | 0 | | | |
| 1,1-Dichloroethane | 22.96 | 0.719 | 20 | 0 | 115 | | | 0 | | | |
| 1,1-Dichloroethene | 24.38 | 1.54 | 20 | 0 | 122 | 70 | 130 | 0 | | | |
| 1,1-Dichloropropene | 20.52 | 1.68 | 20 | 0 | 103 | | | 0 | | | |
| 1,2,3-Trichlorobenzene | 15 | 2.35 | 20 | 0 | 75 | | | 0 | | | |
| 1,2,3-Trichloropropane | 19.21 | 0.725 | 20 | 0 | 96 | | | 0 | | | |
| 1,2,4-Trichlorobenzene | 18.71 | 2.92 | 20 | 0 | 93.6 | | | 0 | | | |
| 1,2,4-Trimethylbenzene | 22.26 | 1.33 | 20 | 0 | 111 | | | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 15.76 | 3.01 | 20 | 0 | 78.8 | | | 0 | | | |
| 1,2-Dibromoethane | 25.89 | 0.99 | 20 | 0 | 129 | | | 0 | | | |
| 1,2-Dichlorobenzene | 21.32 | 0.903 | 20 | 0 | 107 | | | 0 | | | |
| 1,2-Dichloroethane | 22.22 | 0.876 | 20 | 0 | 111 | | | 0 | | | |
| 1,2-Dichloropropane | 22.31 | 1.35 | 20 | 0 | 112 | | | 0 | | | |
| 1,3,5-Trimethylbenzene | 20.76 | 0.76 | 20 | 0 | 104 | | | 0 | | | |
| 1,3-Dichlorobenzene | 22.94 | 0.912 | 20 | 0 | 115 | | | 0 | | | |
| 1,3-Dichloropropane | 20.67 | 0.916 | 20 | 0 | 103 | | | 0 | | | |
| 1,4-Dichlorobenzene | 22.14 | 1.06 | 20 | 0 | 111 | | | 0 | | | |
| 2,2-Dichloropropane | 14.64 | 1.05 | 20 | 0 | 73.2 | | | 0 | | | |
| 2-Butanone | 17.67 | 4.53 | 20 | 0 | 88.4 | | | 0 | | | |
| 2-Chloroethyl vinyl ether | 2.19 | 1.34 | 20 | 0 | 11 | | | 0 | | | |
| 2-Chlorotoluene | 20.07 | 0.711 | 20 | 0 | 100 | | | 0 | | | |
| 2-Hexanone | 16.99 | 2.24 | 20 | 0 | 84.9 | | | 0 | | | |
| 4-Chlorotoluene | 20.48 | 1.04 | 20 | 0 | 102 | | | 0 | | | |
| 4-Isopropyltoluene | 20.27 | 1.43 | 20 | 0 | 101 | | | 0 | | | |
| 4-Methyl-2-pentanone | 20.42 | 1.83 | 20 | 0 | 102 | | | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 20.18 | 1.17 | 20 | 0 | 101 | | | 0 |
| n-Propylbenzene | 18.98 | 0.999 | 20 | 0 | 94.9 | | | 0 |
| Naphthalene | 23.59 | 1.14 | 20 | 0.68 | 115 | | | 0 |
| o-Xylene | 20.11 | 1.64 | 20 | 0 | 101 | | | 0 |
| Pentachloroethane | 19.74 | 2.06 | 20 | 0 | 98.7 | | | 0 |
| sec-Butylbenzene | 19.67 | 0.655 | 20 | 0 | 98.4 | | | 0 |
| Styrene | 19.79 | 1.02 | 20 | 0 | 98.9 | | | 0 |
| tert-Butylbenzene | 19.75 | 0.758 | 20 | 0 | 98.8 | | | 0 |
| Tetrachloroethene | 18.64 | 2.41 | 20 | 0 | 93.2 | | | 0 |
| Tetrahydrofuran | 17.42 | 2.5 | 20 | 0 | 87.1 | | | 0 |
| Toluene | 19.14 | 1.15 | 20 | 0 | 95.7 | 70 | 130 | 0 |
| trans-1,2-Dichloroethene | 16.7 | 1.63 | 20 | 0 | 83.5 | | | 0 |
| trans-1,3-Dichloropropene | 17.37 | 1.05 | 20 | 0 | 86.9 | | | 0 |
| Trichloroethene | 18.22 | 1.55 | 20 | 0 | 91.1 | 70 | 130 | 0 |
| Trichlorofluoromethane | 16.15 | 1.01 | 20 | 0 | 80.7 | | | 0 |
| Vinyl acetate | 14.55 | 3 | 20 | 0 | 72.8 | | | 0 |
| Vinyl chloride | 17.97 | 1.27 | 20 | 0 | 89.8 | | | 0 |
| Surr: 4-Bromofluorobenzene | 48.88 | 0 | 50 | 0 | 97.8 | 70 | 130 | 0 |
| Surr: Dibromofluoromethane | 47.87 | 0 | 50 | 0 | 95.7 | 70 | 130 | 0 |
| Surr: Toluene-d8 | 49.75 | 0 | 50 | 0 | 99.5 | 70 | 130 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Acetone | 23.06 | 8.88 | 20 | 0 | 115 | | | 0 |
| Acrolein | 19.62 | 5.13 | 20 | 0 | 98.1 | | | 0 |
| Acrylonitrile | 16.27 | 3.09 | 20 | 0 | 81.4 | | | 0 |
| Allyl Chloride | 18.99 | 2.1 | 20 | 0 | 94.9 | | | 0 |
| Benzene | 18.62 | 0.95 | 20 | 0 | 93.1 | 70 | 130 | 0 |
| Bromobenzene | 20.11 | 1.31 | 20 | 0 | 101 | | | 0 |
| Bromochloromethane | 19.76 | 0.996 | 20 | 0 | 98.8 | | | 0 |
| Bromodichloromethane | 18.81 | 0.607 | 20 | 0 | 94 | | | 0 |
| Bromoform | 14.73 | 1.5 | 20 | 0 | 73.7 | | | 0 |
| Bromomethane | 16.16 | 7.34 | 20 | 0 | 80.8 | | | 0 |
| Carbon disulfide | 13.14 | 1.2 | 20 | 0 | 65.7 | | | 0 |
| Carbon tetrachloride | 17 | 1.15 | 20 | 0 | 85 | | | 0 |
| Chlorobenzene | 20.31 | 1.08 | 20 | 0 | 102 | 70 | 130 | 0 |
| Chloroethane | 19.57 | 12.1 | 20 | 0 | 97.9 | | | 0 |
| Chloroform | 19.95 | 0.67 | 20 | 0 | 99.8 | | | 0 |
| Chloromethane | 15.97 | 3.29 | 20 | 0 | 79.8 | | | 0 |
| cis-1,2-Dichloroethene | 19.39 | 0.86 | 20 | 0 | 97 | | | 0 |
| cis-1,3-Dichloropropene | 20.19 | 0.874 | 20 | 0 | 101 | | | 0 |
| Dibromochloromethane | 19.85 | 1.03 | 20 | 0 | 99.2 | | | 0 |
| Dibromomethane | 19.27 | 1.26 | 20 | 0 | 96.4 | | | 0 |
| Dichlorodifluoromethane | 14.92 | 2.02 | 20 | 0 | 74.6 | | | 0 |
| Ethyl methacrylate | 18.63 | 1.23 | 20 | 0 | 93.2 | | | 0 |
| Ethylbenzene | 18.51 | 1.13 | 20 | 0 | 92.6 | | | 0 |
| Hexachlorobutadiene | 22.94 | 1.92 | 20 | 0 | 115 | | | 0 |
| Hexachloroethane | 18.99 | 0.819 | 20 | 0 | 94.9 | | | 0 |
| Iodomethane | 22.35 | 3.09 | 20 | 0 | 112 | | | 0 |
| Isopropylbenzene | 19.16 | 0.61 | 20 | 0 | 95.8 | | | 0 |
| m,p-Xylene | 37.93 | 2.56 | 20 | 0 | 190 | | | 0 |
| Methyl acrylate | 17.52 | 1.2 | 20 | 0 | 87.6 | | | 0 |
| Methyl acrylonitrile | 23.05 | 1.85 | 20 | 0 | 115 | | | 0 |
| Methyl methacrylate | 17.94 | 2.58 | 20 | 0 | 89.7 | | | 0 |
| Methyl tert-butyl ether | 17.65 | 0.786 | 20 | 0 | 88.2 | | | 0 |
| Methylene chloride | 8.88 | 1.18 | 20 | 0 | 44.4 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

Sample ID: **8260 LCS** Batch ID: **R22004** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/19/02 6:05:00 PM** Prep Date:

Client ID: Run ID: **GCMS5_021219B** SeqNo: **339497**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 21.21 | 0.893 | 20 | 0 | 106 | | | 0 | | | |
| 1,1,1-Trichloroethane | 18.96 | 0.666 | 20 | 0 | 94.8 | | | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 19.17 | 0.992 | 20 | 0 | 95.9 | | | 0 | | | |
| 1,1,2-Trichloroethane | 19.4 | 2.08 | 20 | 0 | 97 | | | 0 | | | |
| 1,1-Dichloroethane | 18.83 | 0.719 | 20 | 0 | 94.1 | | | 0 | | | |
| 1,1-Dichloroethene | 15.09 | 1.54 | 20 | 0 | 75.4 | 70 | 130 | 0 | | | |
| 1,1-Dichloropropene | 18.01 | 1.68 | 20 | 0 | 90.1 | | | 0 | | | |
| 1,2,3-Trichlorobenzene | 21.64 | 2.35 | 20 | 0 | 108 | | | 0 | | | |
| 1,2,3-Trichloropropane | 17.74 | 0.725 | 20 | 0 | 88.7 | | | 0 | | | |
| 1,2,4-Trichlorobenzene | 25.37 | 2.92 | 20 | 0 | 127 | | | 0 | | | |
| 1,2,4-Trimethylbenzene | 21.67 | 1.33 | 20 | 0 | 108 | | | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 15.12 | 3.01 | 20 | 0 | 75.6 | | | 0 | | | |
| 1,2-Dibromoethane | 20.45 | 0.99 | 20 | 0 | 102 | | | 0 | | | |
| 1,2-Dichlorobenzene | 20.71 | 0.903 | 20 | 0 | 104 | | | 0 | | | |
| 1,2-Dichloroethane | 19.35 | 0.876 | 20 | 0 | 96.8 | | | 0 | | | |
| 1,2-Dichloropropane | 19.42 | 1.35 | 20 | 0 | 97.1 | | | 0 | | | |
| 1,3,5-Trimethylbenzene | 19.08 | 0.76 | 20 | 0 | 95.4 | | | 0 | | | |
| 1,3-Dichlorobenzene | 22.58 | 0.912 | 20 | 0 | 113 | | | 0 | | | |
| 1,3-Dichloropropane | 20.82 | 0.916 | 20 | 0 | 104 | | | 0 | | | |
| 1,4-Dichlorobenzene | 22.01 | 1.06 | 20 | 0 | 110 | | | 0 | | | |
| 2,2-Dichloropropane | 17.42 | 1.05 | 20 | 0 | 87.1 | | | 0 | | | |
| 2-Butanone | 18.63 | 4.53 | 20 | 0 | 93.2 | | | 0 | | | |
| 2-Chloroethyl vinyl ether | 11.2 | 1.34 | 20 | 0 | 56 | | | 0 | | | |
| 2-Chlorotoluene | 19.46 | 0.711 | 20 | 0 | 97.3 | | | 0 | | | |
| 2-Hexanone | 18.62 | 2.24 | 20 | 0 | 93.1 | | | 0 | | | |
| 4-Chlorotoluene | 18.99 | 1.04 | 20 | 0 | 94.9 | | | 0 | | | |
| 4-Isopropyltoluene | 20.49 | 1.43 | 20 | 0 | 102 | | | 0 | | | |
| 4-Methyl-2-pentanone | 18.13 | 1.83 | 20 | 0 | 90.6 | | | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

Sample ID: **LCS-7648** Batch ID: **7649** Test Code: **SW8082** Units: **µg/Kg** Analysis Date **12/21/02 6:13:00 PM** Prep Date: **12/19/02**

Client ID: Run ID: **GC_HP_3_021221A** SeqNo: **340292**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 1944 | 300 | 2000 | 0 | 97.2 | 10 | 215 | 0 | | | |
| Surr: Tetrachloro-m-xylene | 206.5 | 0 | 160 | 0 | 129 | 33.7 | 156 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

Sample ID: **LCS-7649** Batch ID: **7648** Test Code: **SW8081A** Units: **µg/Kg** Analysis Date **12/21/02 5:29:00 PM** Prep Date: **12/19/02**
Client ID: Run ID: **GC_HP_3_021221A** SeqNo: **340291**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4-DDD | 16.77 | 6 | 20 | 0 | 83.9 | 72.4 | 129 | 0 | | | |
| 4,4-DDE | 18.99 | 12 | 20 | 0 | 94.9 | 59.9 | 102.9 | 0 | | | |
| 4,4-DDT | 20.41 | 6 | 20 | 0 | 102 | 50.8 | 141 | 0 | | | |
| Aldrin | 10.36 | 12 | 10 | 0 | 104 | 38.4 | 168 | 0 | | | J |
| alpha-BHC | 8.25 | 12 | 10 | 0 | 82.5 | 64.7 | 119 | 0 | | | J |
| alpha-Chlordane | 9.35 | 9 | 10 | 0 | 93.5 | 63.9 | 129 | 0 | | | |
| beta-BHC | 9.41 | 18 | 10 | 0 | 94.1 | 53.2 | 136 | 0 | | | J |
| delta-BHC | 4.26 | 6 | 10 | 0 | 42.6 | 50.4 | 150 | 0 | | | JS |
| Dieldrin | 17.77 | 36 | 20 | 0 | 88.8 | 66 | 126 | 0 | | | J |
| Endosulfan I | 9.52 | 12 | 10 | 0 | 95.2 | 66.1 | 130 | 0 | | | J |
| Endosulfan II | 17.65 | 9 | 20 | 0 | 88.2 | 57 | 147 | 0 | | | |
| Endosulfan sulfate | 16.94 | 12 | 20 | 0 | 84.7 | 69.8 | 119 | 0 | | | |
| Endrin | 17.47 | 12 | 20 | 0 | 87.4 | 61.3 | 132 | 0 | | | |
| Endrin aldehyde | 16.73 | 66 | 20 | 0 | 83.6 | 59 | 120 | 0 | | | J |
| Endrin ketone | 17.71 | 6 | 20 | 0 | 88.6 | 64.9 | 122 | 0 | | | |
| gamma-BHC | 7.62 | 6 | 10 | 0 | 76.2 | 55.4 | 135 | 0 | | | |
| gamma-Chlordane | 9.38 | 12 | 10 | 0 | 93.8 | 59.4 | 138 | 0 | | | J |
| Heptachlor | 9.86 | 3 | 10 | 0 | 98.6 | 64 | 131 | 0 | | | |
| Heptachlor epoxide | 9.31 | 18 | 10 | 0 | 93.1 | 61.7 | 137 | 0 | | | J |
| Methoxychlor | 96.04 | 78 | 100 | 0 | 96 | 38.8 | 156 | 0 | | | |
| Surr: Tetrachloro-m-xylene | 109.2 | 0 | 160 | 0 | 68.2 | 49.4 | 134 | 0 | | | |

Sample ID: **LCS-7648** Batch ID: **7648** Test Code: **SW8082** Units: **µg/Kg** Analysis Date **12/19/02 3:30:00 PM** Prep Date: **12/19/02**
Client ID: Run ID: **GC_HP_2_021219A** SeqNo: **338590**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | 2429 | 300 | 2000 | 0 | 121 | 10 | 215 | 0 | | | |
| Surr: Tetrachloro-m-xylene | 177.9 | 0 | 160 | 0 | 111 | 33.7 | 156 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

Sample ID: **LCS-7635** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/24/02 9:08:58 AM** Prep Date: **12/19/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340008**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | 26.25 | 0.75 | 25 | 0 | 105 | 80 | 120 | 0 | | | |
| Selenium | 25.22 | 1.5 | 25 | 0 | 101 | 80 | 120 | 0 | | | |

Sample ID: **LCS-7635** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/24/02 11:13:07 AM** Prep Date: **12/19/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340075**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 34.17 | 15 | 25 | 0 | 137 | 80 | 120 | 0 | | | S |
| Antimony | 26.68 | 1.5 | 25 | 0 | 107 | 80 | 120 | 0 | | | |
| Beryllium | 26.58 | 0.375 | 25 | 0 | 106 | 80 | 120 | 0 | | | |
| Cobalt | 26.85 | 0.75 | 25 | 0 | 107 | 80 | 120 | 0 | | | |

Sample ID: **LCS-7635** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/26/02 1:12:13 PM** Prep Date: **12/19/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340499**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 36.73 | 15 | 25 | 0 | 147 | 80 | 120 | 0 | | | S |
| Calcium | 37.88 | 3.75 | 25 | 0 | 152 | 80 | 120 | 0 | | | S |

Sample ID: **LCS-7635** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/27/02 11:31:30 AM** Prep Date: **12/19/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **341314**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | 27.41 | 3.75 | 25 | 0 | 110 | 80 | 120 | 0 | | | |
| Magnesium | 29.54 | 3.75 | 25 | 0 | 118 | 80 | 120 | 0 | | | |
| Sodium | 54.29 | 7.5 | 25 | 0 | 217 | 80 | 120 | 0 | | | S |
| Thallium | 27.65 | 1.5 | 25 | 0 | 111 | 80 | 120 | 0 | | | |
| Vanadium | 27.94 | 0.75 | 25 | 0 | 112 | 80 | 120 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

Sample ID: **LCS-7635** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/21/02 2:16:36 PM** Prep Date: **12/19/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **339308**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 24.76 | 1.5 | 25 | 0 | 99.1 | 80 | 120 | 0 | | | |
| Barium | 24.87 | 0.75 | 25 | 0 | 99.5 | 80 | 120 | 0 | | | |
| Cadmium | 24.78 | 0.225 | 25 | 0 | 99.1 | 80 | 120 | 0 | | | |
| Chromium | 24.36 | 0.75 | 25 | 0 | 97.5 | 80 | 120 | 0 | | | |
| Lead | 24.39 | 1.5 | 25 | 0 | 97.6 | 80 | 120 | 0 | | | |
| Molybdenum | 24.25 | 0.75 | 25 | 0 | 97 | 80 | 120 | 0 | | | |
| Nickel | 24.13 | 0.375 | 25 | 0 | 96.5 | 80 | 120 | 0 | | | |
| Potassium | 248.8 | 15 | 250 | 0 | 99.5 | 80 | 120 | 0 | | | |
| Selenium | 22.89 | 1.5 | 25 | 0 | 91.5 | 80 | 120 | 0 | | | |
| Silver | 4.537 | 0.225 | 25 | 0 | 18.1 | 80 | 120 | 0 | | | S |

Sample ID: **LCS-7635** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/23/02 2:03:40 PM** Prep Date: **12/19/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **339695**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Copper | 25.63 | 0.375 | 25 | 0 | 103 | 80 | 120 | 0 | | | |
| Manganese | 25.05 | 0.75 | 25 | 0 | 100 | 80 | 120 | 0 | | | |
| Zinc | 25.84 | 0.75 | 25 | 0 | 103 | 80 | 120 | 0 | | | |

Sample ID: **LCS-7635** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/23/02 4:07:52 PM** Prep Date: **12/19/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **339713**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Potassium | 246 | 15 | 250 | 0 | 98.4 | 80 | 120 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Sample Matrix Spike

Sample ID: **02120730-07D MS** Batch ID: **7688** Test Code: **SW1311/7421** Units: **mg/L** Analysis Date **12/26/02 6:05:00 PM** Prep Date: **12/26/02**
Client ID: **SB-104 (0-3)** Run ID: **GFAA1_021226A** SeqNo: **340655**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.0447 | 0.006 | 0.03 | 0.0119 | 109 | 70 | 130 | 0 | | | |

Sample ID: **02120730-07D MS** Batch ID: **7688** Test Code: **SW1311/7421** Units: **mg/L** Analysis Date **12/26/02 6:05:00 PM** Prep Date: **12/26/02**
Client ID: **SB-104 (0-3)** Run ID: **GFAA1_021226A** SeqNo: **340656**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.0457 | 0.006 | 0.03 | 0.0119 | 113 | 70 | 130 | 0.0447 | 2.21 | 20 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Sample Matrix Spike Duplicate

Sample ID: **02120730-23A MS** Batch ID: **R22078** Test Code: **SW7471A** Units: **mg/Kg-dry** Analysis Date **12/26/02 5:25:00 PM** Prep Date:
Client ID: **SB-108 (7-11) DU** Run ID: **CVAA1_021226A** SeqNo: **340695**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.04912 | 0.0301 | 0.07519 | 0.01085 | 50.9 | 60.7 | 138 | 0.04692 | 4.59 | 15.9 | S |

Sample ID: **02120794-23B MS** Batch ID: **R22078** Test Code: **SW7471A** Units: **mg/Kg-dry** Analysis Date **12/26/02 5:25:00 PM** Prep Date:
Client ID: Run ID: **CVAA1_021226A** SeqNo: **340717**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.2775 | 0.0283 | 0.1769 | 0.08467 | 100 | 60.7 | 138 | 0 | | | |

Sample ID: **02120794-23B MS** Batch ID: **R22078** Test Code: **SW7471A** Units: **mg/Kg-dry** Analysis Date **12/26/02 5:25:00 PM** Prep Date:
Client ID: Run ID: **CVAA1_021226A** SeqNo: **340718**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.293 | 0.0283 | 0.1769 | 0.08467 | 109 | 60.7 | 138 | 0.2354 | 5.42 | 15.9 | |

Sample ID: **02120730-02A MS** Batch ID: **R22078** Test Code: **SW7471A** Units: **mg/Kg-dry** Analysis Date **12/26/02 5:25:00 PM** Prep Date:
Client ID: **SB-101 (7-11)** Run ID: **CVAA1_021226A** SeqNo: **341362**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.2017 | 0.0294 | 0.3064 | 0 | 65.8 | 60.7 | 138 | 0 | | | |

Sample ID: **02120730-02A MS** Batch ID: **R22078** Test Code: **SW7471A** Units: **mg/Kg-dry** Analysis Date **12/26/02 5:25:00 PM** Prep Date:
Client ID: **SB-101 (7-11)** Run ID: **CVAA1_021226A** SeqNo: **341363**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.2109 | 0.0294 | 0.3064 | 0 | 68.8 | 60.7 | 138 | 0.1646 | 4.46 | 15.9 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Sample Matrix Spike Duplicate

Sample ID: **02120730-22A** Batch ID: **7653** Test Code: **SW8270C** Units: **µg/Kg-dry** Analysis Date **12/20/02 3:52:00 AM** Prep Date: **12/19/02**
Client ID: **SB-108 (7-11)** Run ID: **SV_3_021219B** SeqNo: **339744**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 1307 | 155 | 1295 | 0 | 101 | 70 | 130 | 895.2 | 12 | 30 | |
| Acenaphthylene | 1325 | 155 | 1295 | 0 | 102 | 70 | 130 | 895.3 | 13.3 | 30 | |
| Anthracene | 1275 | 155 | 1295 | 0 | 98.4 | 70 | 130 | 842 | 15.6 | 30 | |
| Benzo(a)anthracene | 1240 | 155 | 1295 | 0 | 95.7 | 70 | 130 | 872.6 | 9.26 | 30 | |
| Benzo(a)pyrene | 1211 | 155 | 1295 | 0 | 93.5 | 70 | 130 | 771.8 | 19.1 | 30 | |
| Benzo(b)fluoranthene | 1214 | 155 | 1295 | 0 | 93.7 | 70 | 130 | 780.9 | 18.2 | 30 | |
| Benzo(g,h,i)perylene | 1149 | 155 | 1295 | 0 | 88.7 | 70 | 130 | 752.3 | 16.5 | 30 | |
| Benzo(k)fluoranthene | 1405 | 155 | 1295 | 0 | 108 | 70 | 130 | 842.1 | 25.1 | 30 | |
| Chrysene | 1398 | 155 | 1295 | 0 | 108 | 70 | 130 | 841 | 24.9 | 30 | |
| Dibenzo(a,h)anthracene | 1026 | 155 | 1295 | 0 | 79.2 | 70 | 130 | 712.8 | 10.5 | 30 | |
| Fluoranthene | 1393 | 155 | 1295 | 0 | 108 | 70 | 130 | 892.9 | 18.6 | 30 | |
| Fluorene | 1309 | 155 | 1295 | 0 | 101 | 70 | 130 | 908.5 | 10.6 | 30 | |
| Indeno(1,2,3-cd)pyrene | 1066 | 155 | 1295 | 0 | 82.3 | 70 | 130 | 646 | 24.1 | 30 | |
| Naphthalene | 1248 | 155 | 1295 | 0 | 96.3 | 70 | 130 | 837.1 | 14 | 30 | |
| Phenanthrene | 1443 | 155 | 1295 | 0 | 111 | 70 | 130 | 956.5 | 15.2 | 30 | |
| Pyrene | 1713 | 155 | 1295 | 0 | 132 | 70 | 130 | 1024 | 25.4 | 30 | S |
| Surr: 2-Fluorobiphenyl | 2469 | 0 | 2591 | 0 | 95.3 | 70 | 130 | 1820 | 0 | 0 | |
| Surr: 4-Terphenyl-d14 | 2261 | 0 | 2591 | 0 | 87.3 | 70 | 130 | 1430 | 0 | 0 | |
| Surr: Nitrobenzene-d5 | 2610 | 0 | 2591 | 0 | 101 | 70 | 130 | 1904 | 0 | 0 | |

Sample ID: **02120730-23A MS** Batch ID: **R22078** Test Code: **SW7471A** Units: **mg/Kg-dry** Analysis Date **12/26/02 5:25:00 PM** Prep Date:
Client ID: **SB-108 (7-11) DU** Run ID: **CVAA1_021226A** SeqNo: **340694**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.04692 | 0.0301 | 0.07519 | 0.01085 | 48 | 60.7 | 138 | 0 | | | S |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Sample Matrix Spike

Sample ID: **02120730-22A** Batch ID: **7653** Test Code: **SW8270C** Units: **µg/Kg-dry** Analysis Date **12/20/02 3:20:00 AM** Prep Date: **12/19/02**

Client ID: **SB-108 (7-11)** Run ID: **SV_3_021219B** SeqNo: **339743**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 1160 | 155 | 1295 | 0 | 89.5 | 70 | 130 | 0 | | | |
| Acenaphthylene | 1160 | 155 | 1295 | 0 | 89.5 | 70 | 130 | 0 | | | |
| Anthracene | 1091 | 155 | 1295 | 0 | 84.2 | 70 | 130 | 0 | | | |
| Benzo(a)anthracene | 1130 | 155 | 1295 | 0 | 87.3 | 70 | 130 | 0 | | | |
| Benzo(a)pyrene | 999.7 | 155 | 1295 | 0 | 77.2 | 70 | 130 | 0 | | | |
| Benzo(b)fluoranthene | 1012 | 155 | 1295 | 0 | 78.1 | 70 | 130 | 0 | | | |
| Benzo(g,h,i)perylene | 974.5 | 155 | 1295 | 0 | 75.2 | 70 | 130 | 0 | | | |
| Benzo(k)fluoranthene | 1091 | 155 | 1295 | 0 | 84.2 | 70 | 130 | 0 | | | |
| Chrysene | 1089 | 155 | 1295 | 0 | 84.1 | 70 | 130 | 0 | | | |
| Dibenzo(a,h)anthracene | 923.3 | 155 | 1295 | 0 | 71.3 | 70 | 130 | 0 | | | |
| Fluoranthene | 1157 | 155 | 1295 | 0 | 89.3 | 70 | 130 | 0 | | | |
| Fluorene | 1177 | 155 | 1295 | 0 | 90.8 | 70 | 130 | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 836.8 | 155 | 1295 | 0 | 64.6 | 70 | 130 | 0 | | | S |
| Naphthalene | 1084 | 155 | 1295 | 0 | 83.7 | 70 | 130 | 0 | | | |
| Phenanthrene | 1239 | 155 | 1295 | 0 | 95.7 | 70 | 130 | 0 | | | |
| Pyrene | 1327 | 155 | 1295 | 0 | 102 | 70 | 130 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 2357 | 0 | 2591 | 0 | 91 | 70 | 130 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 1852 | 0 | 2591 | 0 | 71.5 | 70 | 130 | 0 | | | |
| Surr: Nitrobenzene-d5 | 2467 | 0 | 2591 | 0 | 95.2 | 70 | 130 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Sample Matrix Spike

Sample ID: **02120730-01AMS** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg-dry** Analysis Date **12/21/02 5:39:48 PM** Prep Date: **12/19/02**
Client ID: **SB-101 (0-3)** Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **339329**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 13.13 | 1.78 | 29.66 | 0 | 44.3 | 70 | 130 | 0 | | | S |
| Barium | 74.7 | 0.89 | 29.66 | 31.23 | 127 | 70 | 130 | 0 | | | |
| Cadmium | 18.96 | 0.267 | 29.66 | 0 | 63.9 | 70 | 130 | 0 | | | S |
| Chromium | 25.01 | 0.89 | 29.66 | 6.524 | 58.2 | 70 | 130 | 0 | | | S |
| Lead | 210.2 | 1.78 | 29.66 | 238.8 | -247 | 70 | 130 | 0 | | | S |
| Selenium | 6.087 | 1.78 | 29.66 | 0 | 20.5 | 70 | 130 | 0 | | | S |
| Silver | 0.3583 | 0.267 | 29.66 | 0 | 1.21 | 70 | 130 | 0 | | | S |

Sample ID: **02120730-01AMS** Batch ID: **7635** Test Code: **SW6010B** Units: **mg/Kg-dry** Analysis Date **12/21/02 5:46:46 PM** Prep Date: **12/19/02**
Client ID: **SB-101 (0-3)** Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **339330**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 10.72 | 1.78 | 29.66 | 0 | 36.2 | 70 | 130 | 11.06 | 20.1 | 20 | SR |
| Barium | 68.23 | 0.89 | 29.66 | 31.23 | 105 | 70 | 130 | 62.98 | 9.07 | 20 | |
| Cadmium | 15.57 | 0.267 | 29.66 | 0 | 52.5 | 70 | 130 | 15.98 | 19.6 | 20 | S |
| Chromium | 20.81 | 0.89 | 29.66 | 6.524 | 44.1 | 70 | 130 | 21.08 | 18.3 | 20 | S |
| Lead | 255.1 | 1.78 | 29.66 | 238.8 | -95 | 70 | 130 | 177.2 | 19.3 | 20 | S |
| Selenium | 6.097 | 1.78 | 29.66 | 0 | 20.6 | 70 | 130 | 5.132 | 0.154 | 20 | S |
| Silver | ND | 0.267 | 29.66 | 0 | 0 | 70 | 130 | 0.3021 | 0 | 20 | S |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

Suburban Laboratories, Inc.

**Date:** *16-Jan-03*

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Sample Duplicate

Sample ID: **02120730-01A DU** Batch ID: **R21926** Test Code: **SW9045C** Units: **pH Units** Analysis Date **12/19/02 10:19:00 AM** Prep Date:
Client ID: **SB-101 (0-3)** Run ID: **ORION PH_021219A** SeqNo: **337370**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH | 7.66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

Sample ID: **02120730-22A DU** Batch ID: **R21926** Test Code: **SW9045C** Units: **pH Units** Analysis Date **12/19/02 10:19:00 AM** Prep Date:
Client ID: **SB-108 (7-11)** Run ID: **ORION PH_021219A** SeqNo: **337372**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH | 8.03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

Sample ID: **02120730-11A DU** Batch ID: **R22050** Test Code: **D2216** Units: **wt%** Analysis Date **12/24/02 12:30:00 PM** Prep Date:
Client ID: **SB-106 (0-3)** Run ID: **BALANCE 1_021224C** SeqNo: **340230**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 8.943 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

**Qualifiers:**
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Method Blank

Sample ID: **MB-7694** Batch ID: **7694** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/26/02 6:55:00 PM** Prep Date: **12/26/02**
Client ID: Run ID: **SV_3_021226A** SeqNo: **341344**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 120 | | | | | | | | | |
| Acenaphthylene | ND | 120 | | | | | | | | | |
| Anthracene | ND | 120 | | | | | | | | | |
| Benzo(a)anthracene | ND | 120 | | | | | | | | | |
| Benzo(a)pyrene | ND | 120 | | | | | | | | | |
| Benzo(b)fluoranthene | ND | 120 | | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 120 | | | | | | | | | |
| Benzo(k)fluoranthene | ND | 120 | | | | | | | | | |
| Chrysene | ND | 120 | | | | | | | | | |
| Dibenzo(a,h)anthracene | ND | 120 | | | | | | | | | |
| Fluoranthene | ND | 120 | | | | | | | | | |
| Fluorene | ND | 120 | | | | | | | | | |
| Hexachlorobenzene | ND | 120 | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 120 | | | | | | | | | |
| Naphthalene | ND | 120 | | | | | | | | | |
| Phenanthrene | ND | 120 | | | | | | | | | |
| Pyrene | ND | 120 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | 1934 | 0 | 2000 | 0 | 96.7 | 70 | 130 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 2154 | 0 | 2000 | 0 | 108 | 70 | 130 | 0 | | | |
| Surr: Nitrobenzene-d5 | 1960 | 0 | 2000 | 0 | 98 | 70 | 130 | 0 | | | |

Sample ID: **LMB** Batch ID: **7688** Test Code: **SW1311/7421** Units: **mg/L** Analysis Date **12/26/02 6:05:00 PM** Prep Date: **12/26/02**
Client ID: Run ID: **GFAA1_021226A** SeqNo: **340652**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | 0.006 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT

## Method Blank

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| N-Nitrosodiphenylamine | ND | 120 | | | | | | |
| Naphthalene | ND | 120 | | | | | | |
| Nitrobenzene | ND | 120 | | | | | | |
| o-Cresol | ND | 120 | | | | | | |
| Pentachlorophenol | ND | 120 | | | | | | |
| Phenanthrene | ND | 120 | | | | | | |
| Phenol | ND | 120 | | | | | | |
| Pyrene | ND | 120 | | | | | | |
| Pyridine | ND | 120 | | | | | | |
| Surr: 2,4,6-Tribromophenol | ND | 0 | | | | | | |
| Surr: 2-Fluorobiphenyl | 1862 | 0 | 2000 | 0 | 93.1 | 70 | 130 | 0 |
| Surr: 2-Fluorophenol | ND | 0 | | | | | | |
| Surr: 4-Terphenyl-d14 | 1524 | 0 | 2000 | 0 | 76.2 | 70 | 130 | 0 |
| Surr: Nitrobenzene-d5 | 1699 | 0 | 2000 | 0 | 84.9 | 70 | 130 | 0 |
| Surr: Phenol-d5 | ND | 0 | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Method Blank

| | | |
|---|---|---|
| Azobenzene | ND | 120 |
| Benzidine | ND | 120 |
| Benzo(a)anthracene | ND | 120 |
| Benzo(a)pyrene | ND | 120 |
| Benzo(b)fluoranthene | ND | 120 |
| Benzo(g,h,i)perylene | ND | 120 |
| Benzo(k)fluoranthene | ND | 120 |
| Benzoic acid | ND | 120 |
| Benzyl alcohol | ND | 120 |
| Bis(2-chloroethoxy)methane | ND | 120 |
| Bis(2-chloroethyl)ether | ND | 120 |
| Bis(2-chloroisopropyl)ether | ND | 120 |
| Bis(2-ethylhexyl)phthalate | ND | 120 |
| Butyl benzyl phthalate | ND | 120 |
| Carbazole | ND | 120 |
| Chrysene | ND | 120 |
| Di-n-butyl phthalate | ND | 120 |
| Di-n-octyl phthalate | ND | 120 |
| Dibenzo(a,h)anthracene | ND | 120 |
| Dibenzofuran | ND | 120 |
| Diethyl phthalate | ND | 120 |
| Dimethyl phthalate | ND | 120 |
| Fluoranthene | ND | 120 |
| Fluorene | ND | 120 |
| Hexachlorobenzene | ND | 120 |
| Hexachlorobutadiene | ND | 120 |
| Hexachlorocyclopentadiene | ND | 120 |
| Hexachloroethane | ND | 120 |
| Indeno(1,2,3-cd)pyrene | ND | 120 |
| Isophorone | ND | 120 |
| m,p-Cresol | ND | 120 |
| N-Nitrosodi-n-propylamine | ND | 120 |
| N-Nitrosodimethylamine | ND | 120 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Method Blank

Sample ID: **MB-7653** Batch ID: **7653** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/19/02 6:17:00 PM** Prep Date: **12/19/02**
Client ID: Run ID: **SV_3_021219A** SeqNo: **338646**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 120 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 120 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 120 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 120 | | | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 120 | | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 120 | | | | | | | | | |
| 2,4-Dichlorophenol | ND | 120 | | | | | | | | | |
| 2,4-Dimethylphenol | ND | 120 | | | | | | | | | |
| 2,4-Dinitrophenol | ND | 120 | | | | | | | | | |
| 2,4-Dinitrotoluene | ND | 120 | | | | | | | | | |
| 2,6-Dinitrotoluene | ND | 120 | | | | | | | | | |
| 2-Chloronaphthalene | ND | 120 | | | | | | | | | |
| 2-Chlorophenol | ND | 120 | | | | | | | | | |
| 2-Methylnaphthalene | ND | 120 | | | | | | | | | |
| 2-Nitroaniline | ND | 120 | | | | | | | | | |
| 2-Nitrophenol | ND | 120 | | | | | | | | | |
| 3,3-Dichlorobenzidine | ND | 120 | | | | | | | | | |
| 3-Nitroaniline | ND | 120 | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 120 | | | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 120 | | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 120 | | | | | | | | | |
| 4-Chloroaniline | ND | 120 | | | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 120 | | | | | | | | | |
| 4-Nitroaniline | ND | 120 | | | | | | | | | |
| 4-Nitrophenol | ND | 120 | | | | | | | | | |
| Acenaphthene | ND | 120 | | | | | | | | | |
| Acenaphthylene | ND | 120 | | | | | | | | | |
| Anthracene | ND | 120 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Method Blank

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| N-Nitrosodiphenylamine | ND | 118 | | | | | | |
| Naphthalene | ND | 411 | | | | | | |
| Nitrobenzene | ND | 321 | | | | | | |
| o-Cresol | ND | 165 | | | | | | |
| Pentachlorophenol | ND | 109 | | | | | | |
| Phenanthrene | ND | 134 | | | | | | |
| Phenol | ND | 115 | | | | | | |
| Pyrene | ND | 124 | | | | | | |
| Pyridine | ND | 246 | | | | | | |
| Surr: 2,4,6-Tribromophenol | 2318 | 0 | 3333 | 0 | 69.5 | 20 | 117 | 0 |
| Surr: 2-Fluorobiphenyl | 2497 | 0 | 3333 | 0 | 74.9 | 47 | 128 | 0 |
| Surr: 2-Fluorophenol | 2306 | 0 | 3333 | 0 | 69.2 | 41 | 108 | 0 |
| Surr: 4-Terphenyl-d14 | 1878 | 0 | 3333 | 0 | 56.3 | 5 | 131 | 0 |
| Surr: Nitrobenzene-d5 | 2379 | 0 | 3333 | 0 | 71.4 | 32 | 120 | 0 |
| Surr: Phenol-d5 | 2386 | 0 | 3333 | 0 | 71.6 | 52 | 116 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120730
**Project:** 76th and Parrell

# QC SUMMARY REPORT
## Method Blank

| | | |
|---|---|---|
| Azobenzene | ND | 101 |
| Benzidine | ND | 138 |
| Benzo(a)anthracene | ND | 157 |
| Benzo(a)pyrene | ND | 153 |
| Benzo(b)fluoranthene | ND | 137 |
| Benzo(g,h,i)perylene | ND | 207 |
| Benzo(k)fluoranthene | ND | 136 |
| Benzoic acid | ND | 136 |
| Benzyl alcohol | ND | 147 |
| Bis(2-chloroethoxy)methane | ND | 239 |
| Bis(2-chloroethyl)ether | ND | 429 |
| Bis(2-chloroisopropyl)ether | ND | 429 |
| Bis(2-ethylhexyl)phthalate | ND | 753 |
| Butyl benzyl phthalate | ND | 215 |
| Carbazole | ND | 1980 |
| Chrysene | ND | 199 |
| Di-n-butyl phthalate | ND | 241 |
| Di-n-octyl phthalate | ND | 136 |
| Dibenzo(a,h)anthracene | ND | 247 |
| Dibenzofuran | ND | 93 |
| Diethyl phthalate | ND | 113 |
| Dimethyl phthalate | ND | 151 |
| Fluoranthene | ND | 173 |
| Fluorene | ND | 148 |
| Hexachlorobenzene | ND | 107 |
| Hexachlorobutadiene | ND | 273 |
| Hexachlorocyclopentadiene | ND | 248 |
| Hexachloroethane | ND | 291 |
| Indeno(1,2,3-cd)pyrene | ND | 200 |
| Isophorone | ND | 128 |
| m,p-Cresol | ND | 555 |
| N-Nitrosodi-n-propylamine | ND | 245 |
| N-Nitrosodimethylamine | ND | 130 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

# START Project
# Project Name: 76th and Parnell
# Lab Order# 02120794
# Data Validation

Thursday, January 09, 2003

**Suburban Laboratories, Inc.**

**RCRA Metals (As, Ba, Cd, Cr, Pb, Se, Ag by ICP)/ Mercury (by CVAA) Method SW6010B/7471A:**

1. **Samples:**

| Client Sample ID | Lab ID | Matrix | Date Collected | Date Digested | Date Analyzed |
|---|---|---|---|---|---|
| SB-109 (0-3) | 02120794-01 | Soil | 12/19/02 | 12/20/02 | 12/26/02,12/27/02 (As) |
| SB-109 (7-11) | 02120794-02 | Soil | 12/19/02 | 12/20/02 | 12/26/02,12/27/02 (As) |
| SB-110 (0-3) | 02120794-03 | Soil | 12/19/02 | 12/20/02 | 12/26/02,12/27/02 (As) |
| SB-110 (7-11) | 02120794-04 | Soil | 12/19/02 | 12/20/02 | 12/26/02,12/27/02 (As) |
| SB-111 (0-3) | 02120794-05 | Soil | 12/19/02 | 12/20/02 | 12/26/02,12/27/02 (As) |
| SB-111 (7-11) | 02120794-06 | Soil | 12/19/02 | 12/20/02 | 12/26/02,12/27/02 (As) |
| SB-112 (0-3) | 02120794-07 | Soil | 12/19/02 | 12/20/02 | 12/26/02,12/27/02 (As) |
| SB-112 (7-11) | 02120794-08 | Soil | 12/19/02 | 12/20/02 | 12/26/02,12/27/02 (As) |
| SB-113 (0-3) | 02120794-09 | Soil | 12/19/02 | 12/20/02 | 12/26/02,12/27/02 (As) |
| SB-113 (7-11) | 02120794-10 | Soil | 12/19/02 | 12/20/02 | 12/26/02,12/27/02 (As) |
| SB-114 (0-3) | 02120794-11 | Soil | 12/19/02 | 12/20/02 | 12/26/02,12/27/02 (As) |
| SB-114 (7-11) | 02120794-12 | Soil | 12/19/02 | 12/20/02 | 12/26/02 |
| SB-115 (0-3) | 02120794-13 | Soil | 12/19/02 | 12/20/02 | 12/26/02 |
| SB-115 (7-11) | 02120794-14 | Soil | 12/19/02 | 12/20/02 | 12/26/02 |
| SB-116 (0-3) | 02120794-15 | Soil | 12/19/02 | 12/20/02 | 12/26/02 |
| SB-116 (7-11) | 02120794-17 | Soil | 12/19/02 | 12/20/02 | 12/26/02 |
| SB-117 (0-3) | 02120794-19 | Soil | 12/19/02 | 12/20/02 | 12/26/02 |
| SB-117 (7-11) | 02120794-21 | Soil | 12/19/02 | 12/20/02 | 12/26/02 |
| SB-118 (0-3) | 02120794-23 | Soil | 12/19/02 | 12/20/02 | 12/26/02 |
| SB-118 (7-11) | 02120794-25 | Soil | 12/19/02 | 12/20/02 | 12/26/02 |

**TCLP Lead by SW1311/7421:**

| Client Sample ID | Lab ID | Matrix | Date Collected | Date Digested | Date Analyzed |
|---|---|---|---|---|---|
| SB-118 (0-3) | 02120794-23 | Soil | 12/19/02 | 12/23/02 | 12/26/02 |
| SB-118 (0-3) DUP | 02120794-24 | Soil | 12/19/02 | 12/23/02 | 12/26/02 |

2. **Holding Time:**
The samples were digested and analyzed within the required holding time.

3. **Method Blank:**
The associated method blank MB-7652 was extracted on 12/20/02 and analyzed on 12/26/02, and for (As) on 12/27/02. The method blank contained selenium (1.155 mg/kg). However, the presence of the selenium in the blank had no affect on the samples. Therefore, no qualification was applied.

The associated method blank for (TCLP Pb) LMB-7688 was analyzed on 12/26/02 and the result was free of contamination.

Thursday, January 09, 2003

4. **Matrix Spike:**
The matrix spike/matrix spike duplicate was performed on 02120794-01 for RCRA analysis. The MS/MSD recoveries were acceptable; except in MS for lead, and MS/MSD for sliver. Also, the RPD% values were acceptable, except in sliver. Therefore, qualify all the results in lead, and sliver as (J/UJ).
The MS/MSD was performed on 02120730-23 for mercury analysis. The MS/MSD recoveries were outside the quality control limit.
Another MS/MSD for mercury analysis were performed on (02120794-23) and on (02120730-02). All MS/MSD recoveries were within the required control limit. Also, the RPD% values were acceptable.
The MS/MSD for TCLP Pb analysis was performed on 02120730-07. The MS/MSD recoveries were within the required control limit. Also, the RPD% values were acceptable.

5. **Laboratory Control Sample:**
All laboratories control samples results were within the required control limit, except for lead and sliver. Therefore, qualify all the results in lead and sliver as estimated (J/UJ).
The LCS recovery for (TCLP Pb) analysis was acceptable.

# START Project
# Project Name: 76th and Parnell
# Lab Order# 02120794
# Data Validation

Thursday, January 09, 2003

**Volatiles by SW846 Method 8260:**

1. **Samples:**

| Sample ID | Lab ID | Matrix | Date Collected | Date Analyzed |
|---|---|---|---|---|
| SB-110 (0-3) | 02120794-03 | Soil | 12/19/02 | 12/27/02 |
| SB-110 (7-11) | 02120794-04 | Soil | 12/19/02 | 12/28/02 |
| SB-112 (0-3) | 02120794-07 | Soil | 12/19/02 | 12/21/02 |
| SB-112 (7-11) | 02120794-08 | Soil | 12/19/02 | 12/27/02 |
| SB-114 (0-3) | 02120794-11 | Soil | 12/19/02 | 12/27/02 |
| SB-114 (7-11) | 02120794-12 | Soil | 12/19/02 | 12/27/02 |
| SB-116 (0-3) | 02120794-15 | Soil | 12/19/02 | 12/27/02 |
| SB-116 (0-3) DUP | 02120794-16 | Soil | 12/19/02 | 12/27/02 |
| SB-116 (7-11) | 02120794-17 | Soil | 12/19/02 | 12/27/02 |
| SB-116 (7-11) DUP | 02120794-18 | Soil | 12/19/02 | 12/27/02 |
| SB-118 (0-3) | 02120794-23 | Soil | 12/19/02 | 12/28/02 |
| SB-118 (7-11) | 02120794-25 | Soil | 12/19/02 | 12/28/02 |

2. **Holding Time:**
The samples were analyzed within the required holding time.

3. **Method Blank:**
Three method blanks were associated with the samples. The method blank (batch # R22106) was analyzed on 12/27/02 results were free of contamination.
The method blank (batch # R22153) was analyzed on 12/28/02 results contained naphthalene (0.86 ug/kg). Also, the method blank (batch # R22156) was analyzed on 12/28/02 results contained hexachloroethane (34 ug/kg). However, the presence of naphthalene, and hexachloroethane had no affect on the samples. Therefore, no qualifications were applied.

4. **Surrogate:**
The investigated samples had surrogate recoveries within the acceptance quality control limits, except for 4-bromofluorobenzene in 02120794-03, 07, 15, and 16. However, no action was taken because two surrogates must be outside control limits in the same fraction to warrant qualification.

5. **Laboratory Control Sample:**
All laboratories control samples recoveries were within the control limit.

Thursday, January 09, 2003

5. **Matrix Spike:**
The matrix spike/ matrix spike duplicate audit was performed on sample 02120794-09. The MS/MSD recoveries were acceptable, except MS/MSD in dibenzo (a, h) anthracene. Therefore, qualify the results in dibenzo (a, h) anthracene for 02120794-09 as (J/UJ). Also, the (RPD%) values were acceptable.

6. **Laboratory Control Sample:**
Two laboratories control sample were associated with the samples LCS-7692 was analyzed on 12/24/02, and LCS-7694 analyzed on 12/26/02. All the recoveries were within the quality control limit.

# START Project
# Project Name: 76th and Parnell
# Lab Order# 02120794
# Data Validation

Thursday, January 09, 2003

**Semivolatiles by SW846 Method 8270**
**BNA**

1. **Samples:**

| Client Sample ID | Lab ID | Matrix | Date Collected | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|
| SB-112 (0-3) | 02120794-07 | Soil | 12/19/02 | 12/26/02 | 12/27/02 |
| SB-118 (7-11) | 02120794-25 | Soil | 12/19/02 | 12/26/02 | 12/27/02 |

2. ***Holding Time:***
The samples were extracted and analyzed within the required holding time.

3. **Method Blank:**
The method blank MB-7695 was analyzed 12/27/02 and the results were free of contamination.

4. **Surrogate:**
The investigated samples had surrogate recoveries within the acceptance quality control limits.

5. **Laboratory Control Sample:**
The associated LCS-7695 was analyzed on 12/27/02 and the recoveries were within the quality control limit, except in 4-nitrophenol, and pentachlorophenol. Therefore, qualify the results as (J/UJ).

# START Project
# Project Name: 76th and Parnell
# Lab Order# 02120794
# Data Validation

Thursday, January 09, 2003

**Organochlorine Pesticides by SW846 Method 8081**

1. **Samples:**

| Client Sample ID | Lab ID | Matrix | Date Collected | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|
| SB-112 (7-11) | 02120794-08 | Soil | 12/19/02 | 12/27/02 | 12/28/02 |
| SB-118 (0-3) | 02120794-23 | Soil | 12/19/02 | 12/27/02 | 12/28/02 |

2. **Holding Time:**
   The samples were extracted and analyzed within the required holding time.

3. **Method Blank:**
   The method blank MB-7701 was analyzed on 12/27/02 with the samples and the results were free of contamination.

4. **Surrogate:**
   The investigated samples had surrogate recoveries within the acceptance quality control limits.

5. **Laboratory Control Sample:**
   The laboratory control sample recoveries were within the quality control limits.

# START Project
# Project Name: 76th and Parnell
# Lab Order# 02120794
# Data Validation

Thursday, January 09, 2003

## PCB by SW846 Method 8082

1. **Samples:**

| Client Sample ID | Lab ID | Matrix | Date Collected | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|
| SB-112 (7-11) | 02120794-08 | Soil | 12/19/02 | 12/27/02 | 12/28/02 |
| SB-118 (0-3) | 02120794-23 | Soil | 12/19/02 | 12/27/02 | 12/28/02 |

2. **Holding Time:**
The samples were extracted and analyzed within the required holding time.

3. **Method Blank:**
The two method blanks MB-7700 were analyzed on 12/27/002. The method blank results were free of contamination.

4. **Surrogate:**
The investigated samples had surrogate recoveries within the acceptance quality control limits.

5. **Laboratory Control Sample:**
The laboratory control sample recoveries were within the quality control limits.

# START Project
# Project Name: 76th and Parnell
# Lab Order# 02120794
# Data Validation

Thursday, January 09, 2003

## WET CHEMISTRY:

### PH Analysis Method SW9045C:

1. **Samples:**

| Sample ID | Lab ID | Matrix | Date Collected | Date Analyzed |
|---|---|---|---|---|
| SB-109 (0-3) | 02120794-01 | Soil | 12/19/02 | 12/20/02 |
| SB-109 (7-11) | 02120794-02 | Soil | 12/19/02 | 12/20/02 |
| SB-110 (0-3) | 02120794-03 | Soil | 12/19/02 | 12/20/02 |
| SB-110 (7-11) | 02120794-04 | Soil | 12/19/02 | 12/20/02 |
| SB-111 (0-3) | 02120794-05 | Soil | 12/19/02 | 12/20/02 |
| SB-111 (7-11) | 02120794-06 | Soil | 12/19/02 | 12/20/02 |
| SB-112 (0-3) | 02120794-07 | Soil | 12/19/02 | 12/20/02 |
| SB-112 (7-11) | 02120794-08 | Soil | 12/19/02 | 12/20/02 |
| SB-113 (0-3) | 02120794-09 | Soil | 12/19/02 | 12/20/02 |
| SB-113 (7-11) | 02120794-10 | Soil | 12/19/02 | 12/20/02 |
| SB-114 (0-3) | 02120794-11 | Soil | 12/19/02 | 12/20/02 |
| SB-114 (7-11) | 02120794-12 | Soil | 12/19/02 | 12/20/02 |
| SB-115 (0-3) | 02120794-13 | Soil | 12/19/02 | 12/20/02 |
| SB-115 (7-11) | 02120794-14 | Soil | 12/19/02 | 12/20/02 |
| SB-116 (0-3) | 02120794-15 | Soil | 12/19/02 | 12/20/02 |
| SB-116 (7-11) | 02120794-17 | Soil | 12/19/02 | 12/20/02 |
| SB-117 (0-3) | 02120794-19 | Soil | 12/19/02 | 12/20/02 |
| SB-117 (7-11) | 02120794-21 | Soil | 12/19/02 | 12/20/02 |
| SB-118 (0-3) | 02120794-23 | Soil | 12/19/02 | 12/20/02 |
| SB-118 (7-11) | 02120794-25 | Soil | 12/19/02 | 12/20/02 |

2. **Holding Time:**
The samples were analyzed one day later prior to the day of receipt. No action was taken because there is no EPA-established holding time for PH in soils.

# START Project
# Project Name: 76th and Parnell
# Lab Order# 02120794
# Data Validation

Thursday, January 09, 2003

**Sieve Analysis/Particle Size Method D1140:**

1. **Samples:**

| Sample ID | Lab ID | Matrix | Date Collected | Date Analyzed |
|---|---|---|---|---|
| SB-109 (0-3) | 02120794-01 | Soil | 12/19/02 | 12/23/02 |
| SB-109 (7-11) | 02120794-02 | Soil | 12/19/02 | 12/23/02 |

**Total Organic Carbon (TOC) Method SW9060:**

1. **Samples:**

| Sample ID | Lab ID | Matrix | Date Collected | Date Analyzed |
|---|---|---|---|---|
| SB-110 (0-3) | 02120794-03 | Soil | 12/19/02 | 12/26/02 |
| SB-110 (7-11) | 02120794-04 | Soil | 12/19/02 | 12/26/02 |

Data Reviewed By: Tania Balikji-Shammo Data: 01/10/03

# SUBURBAN LABORATORIES, Inc.

4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587


ACCREDITED IN ACCORDANCE WITH nelac

January 16, 2003

Rick Mehl
Weston Solutions, Inc.
750 East Bunker Court Suite 500
Vernon Hills, Illinois 60061
Tel: (847) 918-4000
Fax: (847) 918-4055

Project Name: 76th & Parnell

Lab Order # **02120794**

Dear Rick Mehl,

Suburban Laboratories, Inc. received 25 samples on 12/19/02 5:20:00 PM for the analyses presented in the following report.

There were no problems with the analyses and all the data for the associated QC met EPA or laboratory specifications except where noted in the case narrative.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. Also included in this is some or all of your analytical results reported in dry weight basis. This is designated on the analytical report in the units field, you will see a "Dry" after the normal reporting units. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call your customer service representative at (708) 544-3260.

Sincerely,

Mike Chung
Data Review Manager

CC:

# SUBURBAN LABORATORIES, Inc.

4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587


ACCREDITED IN ACCORDANCE WITH nelac

**CLIENT:** Weston Solutions, Inc.
**Project:** 76th & Parnell
**Lab Order #** *02120794*

## CASE NARRATIVE

**Date:** *Thursday, January 16, 2003*

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of Part 186 unless otherwise indicated.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated. For more information about the laboratories' scope of accreditation, please contact Suburban or the Agency.
- MDL: Method Detection Limit. The minimum concentration of an analyte that can be measured and reported with a 99% confidence that analyte is greater than zero.
- PQL: Practical Quantitation Limit. The lowest concentration that can be reliably achieved within specified requirements of precision and accuracy during routine laboratory operating conditions. The PQL is generally 3 times the MDL.
- DF: Dilution Factor

Data Qualifiers:
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ: The analyte was not detected above the reported detection limit. However, the reported limits approximate and may or may not represent the actual limits of detection and quantitation necessary to accurately and precisely measure the analyte in the sample.
I: Result is Invalid; CS: Compound Screened; TNTC: Too Numerous to Count

Method References:
E: USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40CFR136 App A; Methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water
SW: USEPA, Test Methods for Evaluating Solid Waste, SW-846, 3rd Ed, includes Updates I-III
M: APHA, Standard Methods for the Examination of Water and Wastewater, 18th & 19th Ed.
D: ASTM, Annual Book of Standards F: NAS, Food Chemicals Codex (FCC), 4th Edition
B: US FDA Bacteriological Analytical Manual (BAM) 8th Edition, 1995
USP: US Pharmacopoeia, 24th Revision, 2000

Project Specific Comments:

This reports supercedes all previous issues of this data. The sieve analysis data, was found to have been dry weight corrected by the LIMS. The analysis is performed on a dried sample aliquot, so that the automatic LIMS dry weight correction was incorrect. This report reflects the corrected data.

Silver(Ag): S=The LCS percent recovery (37%) was outside laboratory control limits (80% - 120%).

794-1a Sample :
Lead(Pb): S=The MS percent recovery (62.78%)were outside laboratory control limits (80% -120%).
Silver(Ag): S=The MS percent recovery (11.27%) and the MSD percent recovery (7.92%) were outside laboratory control limits (80% -120%).

794-1a Sample :
Silver(Ag): R=The MS & MSD Precision (34.93% RPD) was greater than laboratory control limits .

| | | |
|---|---|---|
| **CLIENT:** | Weston Solutions, Inc. | **CASE NARRATIVE** |
| **Project:** | *76th & Parnell* | |
| **Lab Order #** | ***02120794*** | **Date:** *Thursday, January 16, 2003* |

Semivolatiles:
Q = The Internal standard recovery for this analyte in the sample is outside in-house laboratory criteria (no method specific requirement for internal standard recovery on a sample by sample basis).

Sample 02120794-09A: S=The MS and the MSD percent recoveries for the following analytes were outside laboratory control limits (70.0% - 130.0%).
Dibenzo(a,h)Anthracene 62.24%, 62.23% Indeno(1,2,3-cd)-Pyrene 72.97%, 69.9%

Samples 02120730-25A and 07A S= The LCS recovery limits for the following analytes are outside laboratory control limits:
4-Nitrophenol 20.8% (33-173%)
Pentachlorophenol 0% (36%-144%)

Volatiles: Q=The Internal standard recovery for this analyte in the sample is outside in-house laboratory criteria (no method specific requirement for internal standard recovery on a sample by sample basis).

Sample 02120794-07C: 2 Sodium Bisulfate vials were received. The first vial failed 8260 CCC criteria for Ethylbenzene and was evaluated for each target analyte because the second vial did not purge. Those analytes showing a deviation outside 80-120% of the CCV have been flagged S

| | | | |
|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 74.38% | Dibromochloromethane | 75.64% |
| 2-Butanone | 76.74% | Ethylbenzene | 76.88% |
| 2-Hexanone | 68.58% | m,p-Xylene | 155.18% |
| 4-Methyl-2-pentanone | 74.50% | Methyl tert-butyl ether | 66.06% |
| Benzene | 79.88% | Methylene chloride | 73.92% |
| Carbon tetrachloride | 77.14% | Tetrachloroethene | 73.48% |
| Chlorobenzene | 79.64% | trans-1,3-Dichloropropene | 73.90% |
| Chloroethane | 126.84% | Trichloroethene | 77.84% |

Sample 02120794-11A E=Acetone was above linear range. The Methanol fraction was analyzed for Acetone and was below calibration.

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-01 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 10:55:00 AM
**Client Sample ID:** SB-109 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.45 | 1.4 | mg/Kg-dry | 1 | 12/27/02 9:22 am |
| Barium | 4.39 | | 0.026 | 0.079 | mg/Kg-dry | 1 | 12/26/02 5:49 pm |
| Cadmium | ND | | 0.026 | 0.079 | mg/Kg-dry | 1 | 12/26/02 5:49 pm |
| Chromium | 1.67 | | 0.079 | 0.24 | mg/Kg-dry | 1 | 12/26/02 5:49 pm |
| Lead | 10.2 | J+ S | 0.24 | 0.71 | mg/Kg-dry | 1 | 12/26/02 5:49 pm |
| Selenium | ND | | 0.34 | 1.0 | mg/Kg-dry | 1 | 12/26/02 5:49 pm |
| Silver | ND | UJ SR | 0.026 | 0.079 | mg/Kg-dry | 1 | 12/26/02 5:49 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DH |
| Acenaphthene | ND | | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Acenaphthylene | ND | | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Anthracene | ND | | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Benzo(a)anthracene | 64 | J | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Benzo(a)pyrene | ND | | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Benzo(b)fluoranthene | 54 | J | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Benzo(g,h,i)perylene | ND | | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Benzo(k)fluoranthene | ND | | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Chrysene | 42 | J | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Dibenzo(a,h)anthracene | ND | | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Fluoranthene | 64 | J | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Fluorene | ND | | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Indeno(1,2,3-cd)pyrene | ND | | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Naphthalene | ND | | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Phenanthrene | ND | | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Pyrene | 65 | J | 42.2 | 127 | µg/Kg-dry | 1 | 12/24/02 1:56 pm |
| Surr: 2-Fluorobiphenyl | 91.8 | | 0 | 70-130 | %REC | 1 | 12/24/02 1:56 pm |
| Surr: 4-Terphenyl-d14 | 81.1 | | 0 | 70-130 | %REC | 1 | 12/24/02 1:56 pm |
| Surr: Nitrobenzene-d5 | 91.2 | | 0 | 70-130 | %REC | 1 | 12/24/02 1:56 pm |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | ND | | 0.0084 | 0.025 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: JD |
| pH | 8.07 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 5.28 | | 0 | 0 | wt% | 1 | 12/20/02 11:40 am |
| **SIEVE ANALYSIS/PARTICLE SIZE** | | | Method: D1140 | | | | Analyst: AB |
| Material finer than #003 (Sieve 3, 75000 µm) | 100 | | 0 | 0 | wt% | 1 | 12/23/02 12:00 am |
| Material finer than #004 (Sieve 4, 4,750 µm) | 100 | | 0 | 0 | wt% | 1 | 12/23/02 12:00 am |

TBS 1/24/03

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*

**Project:** 76th & Parnell

| | | | | | | |
|---|---|---|---|---|---|---|
| Material finer than #010 (Sieve 10, 2000 µm) | 100 | 0 | 0 | wt% | 1 | 12/23/02 12:00 am |
| Material finer than #040 (Sieve 40, 420 µm) | 41 | 0 | 0 | wt% | 1 | 12/23/02 12:00 am |
| Material finer than #200 (Sieve 200, 75 µm) | 67 | 0 | 0 | wt% | 1 | 12/23/02 12:00 am |

**Qualifiers:**

MDL-Continued

ND - Not Detected at the Method Detection Limit

*J - Estimated or analyte detected below quantitation limit*

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-02 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 10:58:00 AM
**Client Sample ID:** SB-109 (7-11) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.52 | 1.6 | mg/Kg-dry | 1 | 12/27/02 9:50 am |
| Barium | 4.27 | | 0.031 | 0.093 | mg/Kg-dry | 1 | 12/26/02 6:54 pm |
| Cadmium | ND | | 0.031 | 0.093 | mg/Kg-dry | 1 | 12/26/02 6:54 pm |
| Chromium | 4.92 | | 0.093 | 0.28 | mg/Kg-dry | 1 | 12/26/02 6:54 pm |
| Lead | 5.23 | J | 0.28 | 0.83 | mg/Kg-dry | 1 | 12/26/02 6:54 pm |
| Selenium | ND | | 0.40 | 1.2 | mg/Kg-dry | 1 | 12/26/02 6:54 pm |
| Silver | ND | UJ S | 0.031 | 0.093 | mg/Kg-dry | 1 | 12/26/02 6:54 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DH |
| Acenaphthene | ND | | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Acenaphthylene | ND | | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Anthracene | ND | | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Benzo(a)anthracene | ND | | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Benzo(a)pyrene | ND | Q | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Benzo(b)fluoranthene | ND | Q | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Benzo(g,h,i)perylene | ND | Q | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Benzo(k)fluoranthene | ND | Q | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Chrysene | ND | | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Dibenzo(a,h)anthracene | ND | Q | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Fluoranthene | ND | | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Fluorene | ND | | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Indeno(1,2,3-cd)pyrene | ND | Q | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Naphthalene | ND | | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Phenanthrene | ND | | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Pyrene | ND | | 49.4 | 148 | µg/Kg-dry | 1 | 12/24/02 2:26 pm |
| Surr: 2-Fluorobiphenyl | 92.5 | | 0 | 70-130 | %REC | 1 | 12/24/02 2:26 pm |
| Surr: 4-Terphenyl-d14 | 79.5 | | 0 | 70-130 | %REC | 1 | 12/24/02 2:26 pm |
| Surr: Nitrobenzene-d5 | 96.1 | | 0 | 70-130 | %REC | 1 | 12/24/02 2:26 pm |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | ND | | 0.0099 | 0.030 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: JD |
| pH | 8.07 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 19.0 | | 0 | 0 | wt% | 1 | 12/20/02 11:40 am |
| **SIEVE ANALYSIS/PARTICLE SIZE** | | | Method: D1140 | | | | Analyst: AB |
| Material finer than #003 (Sieve 3, 75000 µm) | 100 | | 0 | 0 | wt% | 1 | 12/23/02 12:00 am |
| Material finer than #004 (Sieve 4, 4,750 µm) | 100 | | 0 | 0 | wt% | 1 | 12/23/02 12:00 am |

TBS 1/29/03

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
MDL-Continuous
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*

**Project:** 76th & Parnell

| | | | | | | |
|---|---|---|---|---|---|---|
| Material finer than #010 (Sieve 10, 2000 µm) | 100 | 0 | 0 | wt% | 1 | 12/23/02 12:00 am |
| Material finer than #040 (Sieve 40, 420 µm) | 94 | 0 | 0 | wt% | 1 | 12/23/02 12:00 am |
| Material finer than #200 (Sieve 200, 75 µm) | 18 | 0 | 0 | wt% | 1 | 12/23/02 12:00 am |

**Qualifiers:**

MDL-Continuous

ND - Not Detected at the Method Detection Limit
J - *Estimated or analyte detected below quantitation limit*
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-03 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 11:06:00 AM
**Client Sample ID:** SB-110 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.47 | 1.4 | mg/Kg-dry | 1 | 12/27/02 9:53 am |
| Barium | 371 | | 0.028 | 0.083 | mg/Kg-dry | 1 | 12/26/02 7:02 pm |
| Cadmium | ND | | 0.028 | 0.083 | mg/Kg-dry | 1 | 12/26/02 7:02 pm |
| Chromium | 12.8 | | 0.083 | 0.25 | mg/Kg-dry | 1 | 12/26/02 7:02 pm |
| Lead | 272 J | | 0.25 | 0.75 | mg/Kg-dry | 1 | 12/26/02 7:02 pm |
| Selenium | ND | | 0.36 | 1.1 | mg/Kg-dry | 1 | 12/26/02 7:02 pm |
| Silver | ND UJ | S | 0.028 | 0.083 | mg/Kg-dry | 1 | 12/26/02 7:02 pm |
| **VOLATILE ORGANIC COMPOUNDS** | | | Method: SW8260B | | | | Analyst: BK TBS 1/29/03 |
| 1,1,1-Trichloroethane | ND | | 0.246 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| 1,1,2,2-Tetrachloroethane | ND | Q | 0.367 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| 1,1,2-Trichloroethane | ND | | 0.767 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| 1,1-Dichloroethane | ND | | 0.266 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| 1,1-Dichloroethene | ND | | 0.570 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| 1,2-Dichloroethane | ND | | 0.324 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| 1,2-Dichloropropane | ND | | 0.498 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| 2-Butanone | 7.49 | | 1.67 | 5.54 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| 2-Hexanone | ND | Q | 0.826 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| 4-Methyl-2-pentanone | ND | | 0.676 | 5.54 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Acetone | 87.1 | | 3.28 | 5.54 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Benzene | 1.35 | | 0.351 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Bromodichloromethane | ND | | 0.224 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Bromoform | ND | Q | 0.555 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Bromomethane | ND | | 2.72 | 5.54 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Carbon disulfide | 1.71 | | 0.441 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Carbon tetrachloride | ND | | 0.425 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Chlorobenzene | ND | Q | 0.400 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Chloroethane | ND | | 4.46 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Chloroform | ND | | 0.248 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Chloromethane | 6.94 | | 1.22 | 5.54 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| cis-1,2-Dichloroethene | ND | | 0.317 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| cis-1,3-Dichloropropene | ND | | 0.323 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Dibromochloromethane | ND | Q | 0.379 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Ethylbenzene | 0.63 | JQ | 0.417 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| m,p-Xylene | 2.1 | JQ | 0.944 | 2.22 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Methyl tert-butyl ether | ND | | 0.290 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Methylene chloride | ND | | 0.437 | 5.54 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| o-Xylene | 0.94 | JQ | 0.604 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Styrene | ND | Q | 0.376 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Tetrachloroethene | 1.49 | Q | 0.890 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Toluene | 1.18 | | 0.425 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| trans-1,2-Dichloroethene | ND | | 0.601 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
MDL-Continuous
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*

**Project:** 76th & Parnell

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | | 0.388 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Trichloroethene | 0.83 | J | 0.574 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Vinyl chloride | ND | | 0.469 | 1.11 | µg/Kg-dry | 1 | 12/27/02 3:18 pm |
| Surr: 4-Bromofluorobenzene | 66.0 | SQ | 0 | 70-130 | %REC | 1 | 12/27/02 3:18 pm |
| Surr: Dibromofluoromethane | 105 | | 0 | 70-130 | %REC | 1 | 12/27/02 3:18 pm |
| Surr: Toluene-d8 | 80.4 | | 0 | 70-130 | %REC | 1 | 12/27/02 3:18 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DH |
| Acenaphthene | 427 | Q | 44.3 | 133 | µg/Kg-dry | 1 | 12/24/02 6:00 pm |
| Acenaphthylene | 53 | JQ | 44.3 | 133 | µg/Kg-dry | 1 | 12/24/02 6:00 pm |
| Anthracene | 1,190 | | 44.3 | 133 | µg/Kg-dry | 1 | 12/24/02 6:00 pm |
| Benzo(a)anthracene | 2,260 | | 44.3 | 133 | µg/Kg-dry | 1 | 12/24/02 6:00 pm |
| Benzo(a)pyrene | 1,900 | | 44.3 | 133 | µg/Kg-dry | 1 | 12/24/02 6:00 pm |
| Benzo(b)fluoranthene | 2,200 | | 44.3 | 133 | µg/Kg-dry | 1 | 12/24/02 6:00 pm |
| Benzo(g,h,i)perylene | 1,130 | | 44.3 | 133 | µg/Kg-dry | 1 | 12/24/02 6:00 pm |
| Benzo(k)fluoranthene | 617 | | 44.3 | 133 | µg/Kg-dry | 1 | 12/24/02 6:00 pm |
| Chrysene | 1,800 | | 44.3 | 133 | µg/Kg-dry | 1 | 12/24/02 6:00 pm |
| Dibenzo(a,h)anthracene | 227 | | 44.3 | 133 | µg/Kg-dry | 1 | 12/24/02 6:00 pm |
| Fluoranthene | 5,190 | | 443 | 1,330 | µg/Kg-dry | 10 | 12/27/02 7:35 pm |
| Fluorene | 520 | J | 443 | 1,330 | µg/Kg-dry | 10 | 12/27/02 7:35 pm |
| Indeno(1,2,3-cd)pyrene | 1,150 | | 44.3 | 133 | µg/Kg-dry | 1 | 12/24/02 6:00 pm |
| Naphthalene | 680 | J | 443 | 1,330 | µg/Kg-dry | 10 | 12/27/02 7:35 pm |
| Phenanthrene | 6,960 | | 443 | 1,330 | µg/Kg-dry | 10 | 12/27/02 7:35 pm |
| Pyrene | 6,420 | | 443 | 1,330 | µg/Kg-dry | 10 | 12/27/02 7:35 pm |
| Surr: 2-Fluorobiphenyl | 77.7 | | 0 | 70-130 | %REC | 10 | 12/27/02 7:35 pm |
| Surr: 4-Terphenyl-d14 | 63.7 | S | 0 | 70-130 | %REC | 1 | 12/24/02 6:00 pm |
| Surr: Nitrobenzene-d5 | 91.4 | | 0 | 70-130 | %REC | 10 | 12/27/02 7:35 pm |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | 0.113 | | 0.0089 | 0.027 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: JD |
| pH | 8.03 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 9.79 | | 0 | 0 | wt% | 1 | 12/20/02 11:40 am |
| **TOTAL ORGANIC CARBON** | | | Method: SW9060 | | | | Analyst: MC |
| Total Organic Carbon | 737 | | 39.7 | 119 | mg/Kg-dry | 25 | 12/26/02 9:30 am |

**Qualifiers:**

ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-04 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 11:11:00 AM
**Client Sample ID:** SB-110 (7-11) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.42 | 1.3 | mg/Kg-dry | 1 | 12/27/02 9:57 am |
| Barium | 25.7 | | 0.025 | 0.075 | mg/Kg-dry | 1 | 12/26/02 7:11 pm |
| Cadmium | ND | | 0.025 | 0.075 | mg/Kg-dry | 1 | 12/26/02 7:11 pm |
| Chromium | 12.2 | | 0.075 | 0.22 | mg/Kg-dry | 1 | 12/26/02 7:11 pm |
| Lead | 12.2 J | | 0.22 | 0.67 | mg/Kg-dry | 1 | 12/26/02 7:11 pm |
| Selenium | ND | | 0.32 | 0.97 | mg/Kg-dry | 1 | 12/26/02 7:11 pm |
| Silver | ND UJ | S | 0.025 | 0.075 | mg/Kg-dry | 1 | 12/26/02 7:11 pm |
| **VOLATILE ORGANIC COMPOUNDS** | | | Method: SW8260B | | | | Analyst: BK TBS 1/29/03 |
| 1,1,1-Trichloroethane | ND | | 0.252 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| 1,1,2,2-Tetrachloroethane | ND | Q | 0.376 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| 1,1,2-Trichloroethane | ND | | 0.785 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| 1,1-Dichloroethane | ND | | 0.272 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| 1,1-Dichloroethene | ND | | 0.583 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| 1,2-Dichloroethane | ND | | 0.331 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| 1,2-Dichloropropane | ND | | 0.509 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| 2-Butanone | ND | | 1.71 | 5.67 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| 2-Hexanone | ND | | 0.845 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| 4-Methyl-2-pentanone | ND | | 0.692 | 5.67 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Acetone | 13.6 | | 3.36 | 5.67 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Benzene | 0.67 | J | 0.360 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Bromodichloromethane | ND | | 0.229 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Bromoform | ND | | 0.568 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Bromomethane | ND | | 2.78 | 5.67 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Carbon disulfide | ND | | 0.452 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Carbon tetrachloride | ND | | 0.435 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Chlorobenzene | ND | | 0.410 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Chloroethane | ND | | 4.56 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Chloroform | ND | | 0.254 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Chloromethane | ND | | 1.25 | 5.67 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| cis-1,2-Dichloroethene | ND | | 0.325 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| cis-1,3-Dichloropropene | ND | | 0.330 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Dibromochloromethane | ND | | 0.388 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Ethylbenzene | 0.83 | J | 0.427 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| m,p-Xylene | 2.81 | | 0.967 | 2.27 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Methyl tert-butyl ether | ND | | 0.297 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Methylene chloride | ND | | 0.447 | 5.67 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| o-Xylene | 1.20 | | 0.618 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Styrene | ND | | 0.385 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Tetrachloroethene | 2.11 | | 0.911 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Toluene | 1.37 | | 0.435 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| trans-1,2-Dichloroethene | ND | | 0.615 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
MDL-Continuous
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Lin Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | | | 0.397 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Trichloroethene | 1.44 | | | 0.588 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Vinyl chloride | ND | | | 0.480 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 3:28 pm |
| Surr: 4-Bromofluorobenzene | 91.0 | | | 0 | 70-130 | %REC | 0.91 | 12/28/02 3:28 pm |
| Surr: Dibromofluoromethane | 111 | | | 0 | 70-130 | %REC | 0.91 | 12/28/02 3:28 pm |
| Surr: Toluene-d8 | 98.6 | | | 0 | 70-130 | %REC | 0.91 | 12/28/02 3:28 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: | SW8270C | | | | Analyst: DH |
| Acenaphthene | ND UJ | | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Acenaphthylene | ND | | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Anthracene | ND | | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Benzo(a)anthracene | ND | | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Benzo(a)pyrene | ND | Q | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Benzo(b)fluoranthene | ND | Q | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Benzo(g,h,i)perylene | ND | Q | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Benzo(k)fluoranthene | ND | Q | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Chrysene | ND | | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Dibenzo(a,h)anthracene | ND | Q | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Fluoranthene | ND | | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Fluorene | ND | | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Indeno(1,2,3-cd)pyrene | ND | Q | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Naphthalene | ND | | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Phenanthrene | 79 J | | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Pyrene | ND UJ | | | 49.9 | 150 | µg/Kg-dry | 1 | 12/24/02 2:57 pm |
| Surr: 2-Fluorobiphenyl | 48.0 | | | 0 | 70-130 | %REC | 1 | 12/24/02 2:57 pm |
| Surr: 4-Terphenyl-d14 | 56.6 | | | 0 | 70-130 | %REC | 1 | 12/24/02 2:57 pm |
| Surr: Nitrobenzene-d5 | 78.7 | | | 0 | 70-130 | %REC | 1 | 12/24/02 2:57 pm |
| **MERCURY BY CVAA** | | | Method: | SW7471A | | | | Analyst: DZ |
| Mercury | 0.027 | J | | 0.010 | 0.030 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: | SW9045C | | | | Analyst: JD |
| pH | 8.52 | | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |
| **PERCENT MOISTURE** | | | Method: | D2216 | | | | Analyst: BE |
| Percent Moisture | 19.8 | | | 0 | 0 | wt% | 1 | 12/20/02 11:40 am |
| **TOTAL ORGANIC CARBON** | | | Method: | SW9060 | | | | Analyst: MC |
| Total Organic Carbon | 418 | | | 44.6 | 133 | mg/Kg-dry | 25 | 12/26/02 9:30 am |

TBS
1/29/03

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
MDL-Continued
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** *02120794-05* **Date Received:** *12/19/02 5:20:00 PM* **Collection Date:** *12/19/02 9:46:00 AM*
**Client Sample ID:** SB-111 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.46 | 1.4 | mg/Kg-dry | 1 | 12/27/02 10:02 am |
| Barium | 257 | | 0.027 | 0.082 | mg/Kg-dry | 1 | 12/26/02 7:19 pm |
| Cadmium | ND | | 0.027 | 0.082 | mg/Kg-dry | 1 | 12/26/02 7:19 pm |
| Chromium | 27.1 | | 0.082 | 0.24 | mg/Kg-dry | 1 | 12/26/02 7:19 pm |
| Lead | 401 J | | 0.24 | 0.73 | mg/Kg-dry | 1 | 12/26/02 7:19 pm |
| Selenium | ND | | 0.35 | 1.1 | mg/Kg-dry | 1 | 12/26/02 7:19 pm |
| Silver | ND UJ | S | 0.027 | 0.082 | mg/Kg-dry | 1 | 12/26/02 7:19 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DP TB 1/29/03 |
| Acenaphthene | 275 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Acenaphthylene | 152 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Anthracene | 557 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Benzo(a)anthracene | 1,400 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Benzo(a)pyrene | 883 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Benzo(b)fluoranthene | 1,550 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Benzo(g,h,i)perylene | 634 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Benzo(k)fluoranthene | 441 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Chrysene | 1,440 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Dibenzo(a,h)anthracene | 145 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Fluoranthene | 2,970 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Fluorene | 321 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Indeno(1,2,3-cd)pyrene | 658 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Naphthalene | 2,070 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Phenanthrene | 3,340 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Pyrene | 2,540 | | 43.5 | 130 | µg/Kg-dry | 1 | 12/27/02 9:08 pm |
| Surr: 2-Fluorobiphenyl | 93.4 | | 0 | 70-130 | %REC | 1 | 12/27/02 9:08 pm |
| Surr: 4-Terphenyl-d14 | 63.5 | S | 0 | 70-130 | %REC | 1 | 12/27/02 9:08 pm |
| Surr: Nitrobenzene-d5 | 86.4 | | 0 | 70-130 | %REC | 1 | 12/27/02 9:08 pm |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | 0.0828 | | 0.0087 | 0.026 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: JD |
| pH | 8.15 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 7.98 | | 0 | 0 | wt% | 1 | 12/20/02 11:40 am |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
MDL-Continuous
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-06 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 9:55 :00 AM
**Client Sample ID:** SB-111 (7-11) **Matrix:** *SOIL*

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed | |
|---|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: | RA |
| Arsenic | ND | | 0.48 | 1.4 | mg/Kg-dry | 1 | 12/27/02 | 10:07 am |
| Barium | 4.53 | | 0.028 | 0.084 | mg/Kg-dry | 1 | 12/26/02 | 7:27 pm |
| Cadmium | ND | | 0.028 | 0.084 | mg/Kg-dry | 1 | 12/26/02 | 7:27 pm |
| Chromium | 4.29 | | 0.084 | 0.25 | mg/Kg-dry | 1 | 12/26/02 | 7:27 pm |
| Lead | 4.49 J | | 0.25 | 0.76 | mg/Kg-dry | 1 | 12/26/02 | 7:27 pm |
| Selenium | ND | | 0.37 | 1.1 | mg/Kg-dry | 1 | 12/26/02 | 7:27 pm |
| Silver | ND UJ | S | 0.028 | 0.084 | mg/Kg-dry | 1 | 12/26/02 | 7:27 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: | DH TB 1/29/03 |
| Acenaphthene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Acenaphthylene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Anthracene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Benzo(a)anthracene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Benzo(a)pyrene | ND | Q | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Benzo(b)fluoranthene | ND | Q | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Benzo(g,h,i)perylene | ND | Q | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Benzo(k)fluoranthene | ND | Q | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Chrysene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Dibenzo(a,h)anthracene | ND | Q | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Fluoranthene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Fluorene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Indeno(1,2,3-cd)pyrene | ND | Q | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Naphthalene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Phenanthrene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Pyrene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/24/02 | 3:27 pm |
| Surr: 2-Fluorobiphenyl | 88.4 | | 0 | 70-130 | %REC | 1 | 12/24/02 | 3:27 pm |
| Surr: 4-Terphenyl-d14 | 82.7 | | 0 | 70-130 | %REC | 1 | 12/24/02 | 3:27 pm |
| Surr: Nitrobenzene-d5 | 98.0 | | 0 | 70-130 | %REC | 1 | 12/24/02 | 3:27 pm |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: | DZ |
| Mercury | ND | | 0.0099 | 0.030 | mg/Kg-dry | 1 | 12/26/02 | 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: | JD |
| pH | 7.97 | | 0 | 0 | pH Units | 1 | 12/20/02 | 7:23 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: | BE |
| Percent Moisture | 19.3 | | 0 | 0 | wt% | 1 | 12/20/02 | 11:40 am |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-07 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 9:23:00 AM
**Client Sample ID:** SB-112 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.34 | 1.0 | mg/Kg-dry | 1 | 12/27/02 10:10 am |
| Barium | 3.35 | | 0.020 | 0.060 | mg/Kg-dry | 1 | 12/26/02 7:36 pm |
| Cadmium | ND | | 0.020 | 0.060 | mg/Kg-dry | 1 | 12/26/02 7:36 pm |
| Chromium | 2.72 | | 0.060 | 0.18 | mg/Kg-dry | 1 | 12/26/02 7:36 pm |
| Lead | 1.96J | | 0.18 | 0.54 | mg/Kg-dry | 1 | 12/26/02 7:36 pm |
| Selenium | ND | | 0.26 | 0.78 | mg/Kg-dry | 1 | 12/26/02 7:36 pm |
| Silver | ND~~J~~ | S | 0.020 | 0.060 | mg/Kg-dry | 1 | 12/26/02 7:36 pm |
| **VOLATILE ORGANIC COMPOUNDS** | | | Method: SW8260B | | | | Analyst: BK TBS 1/29/03 |
| 1,1,1-Trichloroethane | ND | | 0.264 | 0.793 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| 1,1,2,2-Tetrachloroethane | ND | QS | 0.394 | 1.18 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| 1,1,2-Trichloroethane | ND | | 0.823 | 2.48 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| 1,1-Dichloroethane | ND | | 0.286 | 0.856 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| 1,1-Dichloroethene | ND | | 0.612 | 1.83 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| 1,2-Dichloroethane | ND | | 0.347 | 1.04 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| 1,2-Dichloropropane | ND | | 0.534 | 1.61 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| 2-Butanone | 3.7 | JS | 1.80 | 5.39 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| 2-Hexanone | ND | S | 0.887 | 2.67 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| 4-Methyl-2-pentanone | ND | S | 0.726 | 2.18 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Acetone | 39.3 | | 3.52 | 10.6 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Benzene | 1.1 | JS | 0.377 | 1.13 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Bromodichloromethane | ND | | 0.240 | 0.722 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Bromoform | ND | S | 0.596 | 1.78 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Bromomethane | ND | | 2.92 | 8.73 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Carbon disulfide | 21.2 | | 0.474 | 1.43 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Carbon tetrachloride | ND | S | 0.456 | 1.37 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Chlorobenzene | ND | S | 0.430 | 1.29 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Chloroethane | ND | S | 4.78 | 14.4 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Chloroform | 1.17 | | 0.267 | 0.797 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Chloromethane | ND | | 1.31 | 3.91 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| cis-1,2-Dichloroethene | ND | | 0.340 | 1.02 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| cis-1,3-Dichloropropene | ND | | 0.346 | 1.04 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Dibromochloromethane | ND | S | 0.407 | 1.23 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Ethylbenzene | ND | S | 0.447 | 1.34 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| m,p-Xylene | ND | S | 1.01 | 3.05 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Methyl tert-butyl ether | ND | S | 0.312 | 0.935 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Methylene chloride | ND | S | 0.469 | 1.40 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| o-Xylene | ND | | 0.649 | 1.95 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Styrene | ND | | 0.403 | 1.21 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Tetrachloroethene | ND | S | 0.956 | 2.87 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Toluene | 0.90 | J | 0.456 | 1.37 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| trans-1,2-Dichloroethene | ND | | 0.645 | 1.94 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | S | 0.416 | 1.25 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Trichloroethene | ND | S | 0.616 | 1.84 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Vinyl chloride | ND | | 0.503 | 1.51 | µg/Kg-dry | 1.1 | 12/21/02 3:49 am |
| Surr: 4-Bromofluorobenzene | 57.0 | | 0 | 70-130 | %REC | 1.1 | 12/21/02 3:49 am |
| Surr: Dibromofluoromethane | 116 | | 0 | 70-130 | %REC | 1.1 | 12/21/02 3:49 am |
| Surr: Toluene-d8 | 85.5 | | 0 | 70-130 | %REC | 1.1 | 12/21/02 3:49 am |

**SEMIVOLATILE ORGANICS (BNAS)** Method: SW8270C Analyst: DP

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | | 185 | 554 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 1,2-Dichlorobenzene | ND | | 340 | 1,020 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 1,3-Dichlorobenzene | ND | | 175 | 526 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 1,4-Dichlorobenzene | ND | | 159 | 478 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 2,4,5-Trichlorophenol | ND | | 131 | 392 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 2,4,6-Trichlorophenol | ND | | 137 | 411 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 2,4-Dichlorophenol | ND | | 140 | 418 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 2,4-Dimethylphenol | ND | | 160 | 480 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 2,4-Dinitrophenol | ND | | 109 | 329 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 2,4-Dinitrotoluene | ND | | 77.9 | 234 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 2,6-Dinitrotoluene | ND | | 153 | 457 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 2-Chloronaphthalene | ND | | 102 | 307 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 2-Chlorophenol | ND | | 357 | 1,070 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 2-Methylnaphthalene | ND | | 136 | 409 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 2-Nitroaniline | ND | | 68.6 | 206 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 2-Nitrophenol | ND | | 92.4 | 277 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 3,3-Dichlorobenzidine | ND | | 127 | 381 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 3-Nitroaniline | ND | | 85.0 | 255 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 4,6-Dinitro-2-methylphenol | ND | | 77.2 | 232 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 4-Bromophenyl phenyl ether | ND | | 53.7 | 161 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 4-Chloro-3-methylphenol | ND | | 200 | 599 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 4-Chloroaniline | ND | | 76.4 | 229 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 4-Chlorophenyl phenyl ether | ND | | 59.7 | 180 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 4-Nitroaniline | ND | | 108 | 322 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| 4-Nitrophenol | ~~ND~~ UJ | S | 77.9 | 234 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Bis(2-chloroethoxy)methane | ND | | 172 | 517 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Bis(2-chloroethyl)ether | ND | | 309 | 928 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Bis(2-chloroisopropyl)ether | ND | | 309 | 928 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Bis(2-ethylhexyl)phthalate | ND | Q | 543 | 1,630 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Butyl benzyl phthalate | ND | Q | 155 | 465 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Carbazole | ND | | 1,430 | 4,280 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Di-n-butyl phthalate | ND | | 174 | 521 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Di-n-octyl phthalate | ND | Q | 98.0 | 294 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Dibenzofuran | ND | | 67.1 | 201 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Diethyl phthalate | ND | | 81.6 | 244 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Dimethyl phthalate | ND | | 109 | 327 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Hexachlorobutadiene | ND | | 197 | 591 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Hexachlorocyclopentadiene | ND | | 178 | 537 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Hexachloroethane | ND | | 210 | 630 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Isophorone | ND | | 92.4 | 277 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
MDL-Contaminant
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B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
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E - Value above quantitation range
H - Analysis run past method holding time

TBS 1/29/03

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| m,p-Cresol | ND | | 400 | 1,200 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| N-Nitrosodi-n-propylamine | 520 | J | 176 | 530 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| N-Nitrosodiphenylamine | ND | | 85.0 | 255 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Nitrobenzene | ND | | 232 | 695 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| o-Cresol | ND | | 119 | 357 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Pentachlorophenol | ND UJ S | | 78.5 | 236 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Phenol | ND | | 82.9 | 249 | µg/Kg-dry | 2 | 12/27/02 6:27 pm |
| Surr: 2,4,6-Tribromophenol | 61.5 | | 0 | 20-117 | %REC | 2 | 12/27/02 6:27 pm |
| Surr: 2-Fluorobiphenyl | 69.6 | | 0 | 47-128 | %REC | 2 | 12/27/02 6:27 pm |
| Surr: 2-Fluorophenol | 56.8 | | 0 | 41-108 | %REC | 2 | 12/27/02 6:27 pm |
| Surr: 4-Terphenyl-d14 | 94.8 | Q | 0 | 5-131 | %REC | 2 | 12/27/02 6:27 pm |
| Surr: Nitrobenzene-d5 | 58.4 | | 0 | 32-120 | %REC | 2 | 12/27/02 6:27 pm |
| Surr: Phenol-d5 | 48.9 | S | 0 | 52-116 | %REC | 2 | 12/27/02 6:27 pm |

TBS 1/24/03

**SEMIVOLATILE ORGANICS, BY GCMS SIM** Method: SW8270C Analyst: DH

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Acenaphthylene | ND | | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Anthracene | 80 | J | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Benzo(a)anthracene | 466 | | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Benzo(a)pyrene | 383 | | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Benzo(b)fluoranthene | 562 | | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Benzo(g,h,i)perylene | 209 | | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Benzo(k)fluoranthene | 197 | | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Chrysene | 353 | | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Dibenzo(a,h)anthracene | 62 | J | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Fluoranthene | 966 | | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Fluorene | ND | | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Hexachlorobenzene | ND | | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Indeno(1,2,3-cd)pyrene | 227 | | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Naphthalene | 68 | J | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Phenanthrene | 471 | | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Pyrene | 746 | | 43.3 | 130 | µg/Kg-dry | 1 | 12/26/02 8:56 pm |
| Surr: 2-Fluorobiphenyl | 88.2 | | 0 | 70-130 | %REC | 1 | 12/26/02 8:56 pm |
| Surr: 4-Terphenyl-d14 | 91.7 | | 0 | 70-130 | %REC | 1 | 12/26/02 8:56 pm |
| Surr: Nitrobenzene-d5 | 95.2 | | 0 | 70-130 | %REC | 1 | 12/26/02 8:56 pm |

**MERCURY BY CVAA** Method: SW7471A Analyst: DZ

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mercury | 0.268 | | 0.0087 | 0.026 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |

**PH (IN LABORATORY)** Method: SW9045C Analyst: JD

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| pH | 7.68 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |

**PERCENT MOISTURE** Method: D2216 Analyst: BE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 7.56 | | 0 | 0 | wt% | 1 | 12/20/02 11:40 am |

**Qualifiers:**
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MDL-Continuous
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
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E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**ENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**ject:** 76th & Parnell

**Sample ID:** 02120794-08 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 9:25:00 AM
**ent Sample ID:** SB-112 (7-11) **Matrix:** SOIL

| lyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **ALS BY ICP** | | Method: | SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.48 | 1.4 | mg/Kg-dry | 1 | 12/27/02 10:13 am |
| rium | 5.78 | | 0.028 | 0.084 | mg/Kg-dry | 1 | 12/26/02 7:45 pm |
| admium | ND | | 0.028 | 0.084 | mg/Kg-dry | 1 | 12/26/02 7:45 pm |
| Chromium | 3.72 | | 0.084 | 0.25 | mg/Kg-dry | 1 | 12/26/02 7:45 pm |
| ead | ND | UJ | 0.25 | 0.76 | mg/Kg-dry | 1 | 12/26/02 7:45 pm |
| alenium | ND | | 0.36 | 1.1 | mg/Kg-dry | 1 | 12/26/02 7:45 pm |
| ilver | ND | UJS | 0.028 | 0.084 | mg/Kg-dry | 1 | 12/26/02 7:45 pm |
| **GANOCHLORINE PESTICIDES** | | Method: | SW8081A | | | | Analyst: LA TB 1/24/03 |
| 4-DDD | ND | | 2.24 | 6.72 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| 4,4-DDE | ND | | 4.48 | 13.4 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| 4,4-DDT | ND | | 2.24 | 6.72 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| ldrin | ND | | 4.48 | 13.4 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| lpha-BHC | ND | | 4.48 | 13.4 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| alpha-Chlordane | ND | | 3.36 | 10.1 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| eta-BHC | ND | | 6.72 | 20.2 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Chlordane | ND | | 112 | 336 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| delta-BHC | ND | | 2.24 | 6.72 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Dieldrin | ND | | 13.4 | 40.3 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Endosulfan I | ND | | 4.48 | 13.4 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Endosulfan II | ND | | 3.36 | 10.1 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Endosulfan sulfate | ND | | 4.48 | 13.4 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Endrin | ND | | 4.48 | 13.4 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Endrin aldehyde | ND | | 24.6 | 73.9 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Endrin ketone | ND | | 2.24 | 6.72 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| gamma-BHC | ND | | 2.24 | 6.72 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| gamma-Chlordane | ND | | 4.48 | 13.4 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Heptachlor | ND | | 1.12 | 3.36 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Heptachlor epoxide | ND | | 6.72 | 20.2 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Methoxychlor | ND | | 29.1 | 87.3 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Toxaphene | ND | | 224 | 672 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Surr: Tetrachloro-m-xylene | 89.1 | | 0 | 33.7-156 | %REC | 1 | 12/28/02 3:47 am |
| **CBS** | | Method: | SW8082 | | | | Analyst: LA |
| Aroclor 1016 | ND | | 112 | 336 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Aroclor 1221 | ND | | 112 | 336 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Aroclor 1232 | ND | | 112 | 336 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Aroclor 1242 | ND | | 112 | 336 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Aroclor 1248 | ND | | 112 | 336 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Aroclor 1254 | ND | | 112 | 336 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Aroclor 1260 | ND | | 112 | 336 | µg/Kg-dry | 1 | 12/28/02 3:47 am |
| Surr: Tetrachloro-m-xylene | 110 | | 0 | 33.7-156 | %REC | 1 | 12/28/02 3:47 am |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**LIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*

**roject:** 76th & Parnell

## /OLATILE ORGANIC COMPOUNDS

Method: SW8260B Analyst: BK

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.254 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| 1,1,2,2-Tetrachloroethane | ND | | 0.378 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| 1,1,2-Trichloroethane | ND | | 0.790 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| 1,1-Dichloroethane | ND | | 0.274 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| 1,1-Dichloroethene | ND | | 0.587 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| 1,2-Dichloroethane | ND | | 0.334 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| 1,2-Dichloropropane | ND | | 0.513 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| 2-Butanone | 3.0 | J | 1.72 | 5.71 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| 2-Hexanone | ND | | 0.851 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| 4-Methyl-2-pentanone | ND | | 0.697 | 5.71 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Acetone | 22.1 | | 3.38 | 5.71 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Benzene | 1.98 | | 0.362 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Bromodichloromethane | ND | | 0.231 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Bromoform | ND | | 0.572 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Bromomethane | ND | | 2.80 | 5.71 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Carbon disulfide | 0.99 | J | 0.455 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Carbon tetrachloride | ND | | 0.437 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Chlorobenzene | ND | | 0.412 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Chloroethane | ND | | 4.59 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Chloroform | 0.65 | J | 0.256 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Chloromethane | ND | | 1.26 | 5.71 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| cis-1,2-Dichloroethene | ND | | 0.327 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| cis-1,3-Dichloropropene | ND | | 0.332 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Dibromochloromethane | ND | | 0.391 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Ethylbenzene | ND | | 0.429 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| m,p-Xylene | ND | | 0.973 | 2.28 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Methyl tert-butyl ether | ND | | 0.299 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Methylene chloride | ND | | 0.450 | 5.71 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| o-Xylene | ND | | 0.623 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Styrene | ND | | 0.387 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Tetrachloroethene | ND | | 0.917 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Toluene | 2.04 | | 0.437 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| trans-1,2-Dichloroethene | ND | | 0.619 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| trans-1,3-Dichloropropene | ND | | 0.400 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Trichloroethene | ND | | 0.592 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Vinyl chloride | ND | | 0.483 | 1.14 | µg/Kg-dry | 1.02 | 12/27/02 5:34 pm |
| Surr: 4-Bromofluorobenzene | 87.3 | | 0 | 70-130 | %REC | 1.02 | 12/27/02 5:34 pm |
| Surr: Dibromofluoromethane | 106 | | 0 | 70-130 | %REC | 1.02 | 12/27/02 5:34 pm |
| Surr: Toluene-d8 | 90.8 | | 0 | 70-130 | %REC | 1.02 | 12/27/02 5:34 pm |

## SEMIVOLATILE ORGANICS, BY GCMS SIM

Method: SW8270C Analyst: [illegible]H

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 [illegible]:58 pm |
| Acenaphthylene | ND | | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 [illegible]:58 pm |
| Anthracene | ND | | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 [illegible]:58 pm |
| Benzo(a)anthracene | ND | | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 [illegible]:58 pm |
| Benzo(a)pyrene | ND | Q | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 [illegible]:58 pm |

**Qualifiers:**

ND - Not Detected at the Method Detection Limit
MDL-Continuous
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Benzo(b)fluoranthene | ND | Q | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 3:58 pm |
| Benzo(g,h,i)perylene | ND | Q | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 3:58 pm |
| Benzo(k)fluoranthene | ND | Q | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 3:58 pm |
| Chrysene | ND | | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 3:58 pm |
| Dibenzo(a,h)anthracene | ND | Q | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 3:58 pm |
| Fluoranthene | ND | | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 3:58 pm |
| Fluorene | ND | | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 3:58 pm |
| Indeno(1,2,3-cd)pyrene | ND | Q | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 3:58 pm |
| Naphthalene | ND | | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 3:58 pm |
| Phenanthrene | ND | | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 3:58 pm |
| Pyrene | ND | | 44.8 | 134 | µg/Kg-dry | 1 | 12/24/02 3:58 pm |
| Surr: 2-Fluorobiphenyl | 89.7 | | 0 | 70-130 | %REC | 1 | 12/24/02 3:58 pm |
| Surr: 4-Terphenyl-d14 | 77.5 | | 0 | 70-130 | %REC | 1 | 12/24/02 3:58 pm |
| Surr: Nitrobenzene-d5 | 94.8 | | 0 | 70-130 | %REC | 1 | 12/24/02 3:58 pm |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | ND | | 0.0090 | 0.027 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: JD |
| pH | 8.52 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 10.7 | | 0 | 0 | wt% | 1 | 12/20/02 11:40 am |

**Qualifiers:**

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E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-09 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 10:33:00 AM
**Client Sample ID:** SB-113 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.43 | 1.3 | mg/Kg-dry | 1 | 12/27/02 10:16 am |
| Barium | 7.35 | | 0.025 | 0.076 | mg/Kg-dry | 1 | 12/26/02 7:54 pm |
| Cadmium | ND | | 0.025 | 0.076 | mg/Kg-dry | 1 | 12/26/02 7:54 pm |
| Chromium | 3.30 | | 0.076 | 0.23 | mg/Kg-dry | 1 | 12/26/02 7:54 pm |
| Lead | 0.759 | J | 0.23 | 0.68 | mg/Kg-dry | 1 | 12/26/02 7:54 pm |
| Selenium | ND | | 0.33 | 0.98 | mg/Kg-dry | 1 | 12/26/02 7:54 pm |
| Silver | ND | J S | 0.025 | 0.076 | mg/Kg-dry | 1 | 12/26/02 7:54 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DP TBS 1/29/30 |
| Acenaphthene | ND | | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Acenaphthylene | ND | | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Anthracene | ND | | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Benzo(a)anthracene | 110 | J | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Benzo(a)pyrene | 73 | J | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Benzo(b)fluoranthene | 157 | | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Benzo(g,h,i)perylene | ND | | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Benzo(k)fluoranthene | 50 | J | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Chrysene | 99 | J | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Dibenzo(a,h)anthracene | ND | J S | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Fluoranthene | 120 | J | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Fluorene | ND | | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Indeno(1,2,3-cd)pyrene | ND | S | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Naphthalene | 88 | J | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Phenanthrene | ND | | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Pyrene | 120 | J | 42.3 | 127 | µg/Kg-dry | 1 | 12/29/02 2:42 pm |
| Surr: 2-Fluorobiphenyl | 87.5 | | 0 | 70-130 | %REC | 1 | 12/29/02 2:42 pm |
| Surr: 4-Terphenyl-d14 | 73.1 | | 0 | 70-130 | %REC | 1 | 12/29/02 2:42 pm |
| Surr: Nitrobenzene-d5 | 79.1 | | 0 | 70-130 | %REC | 1 | 12/29/02 2:42 pm |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | 0.306 | | 0.0085 | 0.025 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: JD |
| pH | 7.20 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 5.41 | | 0 | 0 | wt% | 1 | 12/20/02 11:40 am |

TBS 1/29/03

**Qualifiers:**
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continued

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-10 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 10:32:00 AM
**Client Sample ID:** SB-113 (7-11) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.57 | 1.7 | mg/Kg-dry | 1 | 12/27/02 10:19 am |
| Barium | 7.51 | | 0.033 | 0.10 | mg/Kg-dry | 1 | 12/26/02 8:03 pm |
| Cadmium | ND | | 0.033 | 0.10 | mg/Kg-dry | 1 | 12/26/02 8:03 pm |
| Chromium | 4.24 | | 0.10 | 0.30 | mg/Kg-dry | 1 | 12/26/02 8:03 pm |
| Lead | 0.76 | J | 0.30 | 0.90 | mg/Kg-dry | 1 | 12/26/02 8:03 pm |
| Selenium | ND | | 0.43 | 1.3 | mg/Kg-dry | 1 | 12/26/02 8:03 pm |
| Silver | ND | JJ S | 0.033 | 0.10 | mg/Kg-dry | 1 | 12/26/02 8:03 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DH |
| Acenaphthene | ND | | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Acenaphthylene | ND | | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Anthracene | ND | | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Benzo(a)anthracene | ND | | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Benzo(a)pyrene | ND | | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Benzo(b)fluoranthene | ND | | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Benzo(g,h,i)perylene | ND | | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Benzo(k)fluoranthene | ND | | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Chrysene | ND | | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Dibenzo(a,h)anthracene | ND | | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Fluoranthene | ND | | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Fluorene | ND | | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Indeno(1,2,3-cd)pyrene | ND | | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Naphthalene | ND | Q | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Phenanthrene | ND | | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Pyrene | ND | | 53.3 | 160 | µg/Kg-dry | 1 | 12/24/02 4:59 pm |
| Surr: 2-Fluorobiphenyl | 87.7 | | 0 | 70-130 | %REC | 1 | 12/24/02 4:59 pm |
| Surr: 4-Terphenyl-d14 | 75.9 | | 0 | 70-130 | %REC | 1 | 12/24/02 4:59 pm |
| Surr: Nitrobenzene-d5 | 90.0 | Q | 0 | 70-130 | %REC | 1 | 12/24/02 4:59 pm |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | 0.020 | J | 0.011 | 0.032 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: JD |
| pH | 7.54 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 25.0 | | 0 | 0 | wt% | 1 | 12/20/02 11:40 am |

735
1/29/30

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continued

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-11 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 9:58:00 AM
**Client Sample ID:** SB-114 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.45 | 1.4 | mg/Kg-dry | 1 | 12/27/02 10:23 am |
| Barium | 46.9 | | 0.026 | 0.080 | mg/Kg-dry | 1 | 12/26/02 8:12 pm |
| Cadmium | ND | | 0.026 | 0.080 | mg/Kg-dry | 1 | 12/26/02 8:12 pm |
| Chromium | 6.50 | | 0.079 | 0.24 | mg/Kg-dry | 1 | 12/26/02 8:12 pm |
| Lead | 217J | | 0.24 | 0.72 | mg/Kg-dry | 1 | 12/26/02 8:12 pm |
| Selenium | ND | | 0.34 | 1.0 | mg/Kg-dry | 1 | 12/26/02 8:12 pm |
| Silver | ND UJ | S | 0.026 | 0.080 | mg/Kg-dry | 1 | 12/26/02 8:12 pm |
| **VOLATILE ORGANIC COMPOUNDS** | | | Method: SW8260B | | | | Analyst: BK TBS 1/29/07 |
| 1,1,1-Trichloroethane | ND | | 0.235 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| 1,1,2,2-Tetrachloroethane | ND | Q | 0.350 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| 1,1,2-Trichloroethane | ND | | 0.731 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| 1,1-Dichloroethane | ND | | 0.254 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| 1,1-Dichloroethene | ND | | 0.543 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| 1,2-Dichloroethane | ND | | 0.309 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| 1,2-Dichloropropane | ND | | 0.474 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| 2-Butanone | 53.8 | | 1.60 | 5.28 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| 2-Hexanone | ND | | 0.787 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| 4-Methyl-2-pentanone | ND | | 0.645 | 5.28 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Acetone | 322 | E | 3.13 | 5.28 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Benzene | 2.32 | | 0.335 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Bromodichloromethane | ND | | 0.213 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Bromoform | ND | | 0.529 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Bromomethane | 17.4 | | 2.59 | 5.28 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Carbon disulfide | 2.71 | | 0.421 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Carbon tetrachloride | ND | | 0.405 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Chlorobenzene | ND | | 0.381 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Chloroethane | ND | | 4.25 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Chloroform | 0.56 | J | 0.237 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Chloromethane | 21.4 | | 1.16 | 5.28 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| cis-1,2-Dichloroethene | ND | | 0.302 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| cis-1,3-Dichloropropene | ND | | 0.308 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Dibromochloromethane | ND | | 0.361 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Ethylbenzene | 0.87 | J | 0.397 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| m,p-Xylene | 2.22 | | 0.900 | 2.11 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Methyl tert-butyl ether | ND | | 0.277 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Methylene chloride | ND | | 0.416 | 5.28 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| o-Xylene | 1.29 | | 0.576 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Styrene | ND | | 0.358 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Tetrachloroethene | ND | | 0.849 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Toluene | 1.57 | | 0.405 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| trans-1,2-Dichloroethene | ND | | 0.573 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
MDL-Continuous
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *trans-1,3-Dichloropropene* | ND | | 0.370 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Trichloroethene | 0.64 | J | 0.547 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Vinyl chloride | ND | | 0.447 | 1.06 | µg/Kg-dry | 0.95 | 12/27/02 6:20 pm |
| Surr: 4-Bromofluorobenzene | 77.2 | | 0 | 70-130 | %REC | 0.95 | 12/27/02 6:20 pm |
| Surr: Dibromofluoromethane | 109 | | 0 | 70-130 | %REC | 0.95 | 12/27/02 6:20 pm |
| Surr: Toluene-d8 | 81.9 | | 0 | 70-130 | %REC | 0.95 | 12/27/02 6:20 pm |

**SEMIVOLATILE ORGANICS, BY GCMS SIM** Method: SW8270C Analyst: DH

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 1,980 | | 44.5 | 133 | µg/Kg-dry | 1 | 12/24/02 5:30 pm |
| Acenaphthylene | 158 | | 44.5 | 133 | µg/Kg-dry | 1 | 12/24/02 5:30 pm |
| Anthracene | 4,150 | | 445 | 1,330 | µg/Kg-dry | 10 | 12/27/02 7:05 pm |
| Benzo(a)anthracene | 9,670 | | 445 | 1,330 | µg/Kg-dry | 10 | 12/27/02 7:05 pm |
| Benzo(a)pyrene | 7,820 | | 445 | 1,330 | µg/Kg-dry | 10 | 12/27/02 7:05 pm |
| Benzo(b)fluoranthene | 10,400 | | 445 | 1,330 | µg/Kg-dry | 10 | 12/27/02 7:05 pm |
| Benzo(g,h,i)perylene | 4,370 | | 44.5 | 133 | µg/Kg-dry | 1 | 12/24/02 5:30 pm |
| Benzo(k)fluoranthene | 3,010 | | 44.5 | 133 | µg/Kg-dry | 1 | 12/24/02 5:30 pm |
| Chrysene | 8,210 | | 445 | 1,330 | µg/Kg-dry | 10 | 12/27/02 7:05 pm |
| Dibenzo(a,h)anthracene | 1,090 | | 44.5 | 133 | µg/Kg-dry | 1 | 12/24/02 5:30 pm |
| Fluoranthene | 25,500 | | 445 | 1,330 | µg/Kg-dry | 10 | 12/27/02 7:05 pm |
| Fluorene | 2,580 | | 44.5 | 133 | µg/Kg-dry | 1 | 12/24/02 5:30 pm |
| Indeno(1,2,3-cd)pyrene | 3,710 | | 445 | 1,330 | µg/Kg-dry | 10 | 12/27/02 7:05 pm |
| Naphthalene | 1,930 | | 445 | 1,330 | µg/Kg-dry | 10 | 12/27/02 7:05 pm |
| Phenanthrene | 27,800 | | 445 | 1,330 | µg/Kg-dry | 10 | 12/27/02 7:05 pm |
| Pyrene | 23,600 | | 445 | 1,330 | µg/Kg-dry | 10 | 12/27/02 7:05 pm |
| Surr: 2-Fluorobiphenyl | 90.7 | | 0 | 70-130 | %REC | 1 | 12/24/02 5:30 pm |
| Surr: 4-Terphenyl-d14 | 61.7 | | 0 | 70-130 | %REC | 1 | 12/24/02 5:30 pm |
| Surr: Nitrobenzene-d5 | 88.2 | | 0 | 70-130 | %REC | 10 | 12/27/02 7:05 pm |

**MERCURY BY CVAA** Method: SW7471A Analyst: DZ

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mercury | 0.109 | | 0.0089 | 0.027 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |

**PH (IN LABORATORY)** Method: SW9045C Analyst: JD

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| pH | 9.72 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |

**PERCENT MOISTURE** Method: D2216 Analyst: BE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 10.1 | | 0 | 0 | wt% | 1 | 12/20/02 11:40 am |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
MDL-Continued
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* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**LIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**roject:** 76th & Parnell

**ab Sample ID:** 02120794-12 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 10:03:00 AM
**lient Sample ID:** *SB-114 (7-11)* **Matrix:** *SOIL*

| nalyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **IETALS BY ICP** | | Method: | SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.48 | 1.4 | mg/Kg-dry | 1 | 12/26/02 8:59 pm |
| Barium | 5.36 | | 0.028 | 0.084 | mg/Kg-dry | 1 | 12/26/02 8:59 pm |
| Cadmium | ND | | 0.028 | 0.084 | mg/Kg-dry | 1 | 12/26/02 8:59 pm |
| Chromium | 4.39 | | 0.084 | 0.25 | mg/Kg-dry | 1 | 12/26/02 8:59 pm |
| Lead | 5.78 J | | 0.25 | 0.76 | mg/Kg-dry | 1 | 12/26/02 8:59 pm |
| Selenium | ND | | 0.37 | 1.1 | mg/Kg-dry | 1 | 12/26/02 8:59 pm |
| Silver | ND UJ | S | 0.028 | 0.084 | mg/Kg-dry | 1 | 12/26/02 8:59 pm |
| **VOLATILE ORGANIC COMPOUNDS** | | Method: | SW8260B | | | | Analyst: BK TBS 1/24/03 |
| 1,1,1-Trichloroethane | ND | | 0.258 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| 1,1,2,2-Tetrachloroethane | ND | | 0.385 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| 1,1,2-Trichloroethane | ND | | 0.805 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| 1,1-Dichloroethane | ND | | 0.279 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| 1,1-Dichloroethene | ND | | 0.598 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| 1,2-Dichloroethane | ND | | 0.340 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| 1,2-Dichloropropane | ND | | 0.522 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| 2-Butanone | ND | | 1.76 | 5.82 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| 2-Hexanone | ND | | 0.867 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| 4-Methyl-2-pentanone | ND | | 0.710 | 5.82 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Acetone | 25.7 | | 3.44 | 5.82 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Benzene | 1.50 | | 0.369 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Bromodichloromethane | ND | | 0.235 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Bromoform | ND | | 0.583 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Bromomethane | ND | | 2.85 | 5.82 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Carbon disulfide | 1.0 | J | 0.463 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Carbon tetrachloride | ND | | 0.446 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Chlorobenzene | ND | | 0.420 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Chloroethane | ND | | 4.68 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Chloroform | ND | | 0.261 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Chloromethane | ND | | 1.28 | 5.82 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| cis-1,2-Dichloroethene | ND | | 0.333 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| cis-1,3-Dichloropropene | ND | | 0.339 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Dibromochloromethane | ND | | 0.398 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Ethylbenzene | ND | | 0.437 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| m,p-Xylene | ND | | 0.991 | 2.33 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Methyl tert-butyl ether | ND | | 0.305 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Methylene chloride | ND | | 0.458 | 5.82 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| o-Xylene | ND | | 0.634 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Styrene | ND | | 0.394 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Tetrachloroethene | ND | | 0.934 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Toluene | 0.99 | J | 0.446 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| trans-1,2-Dichloroethene | ND | | 0.631 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |

**Qualifiers:**
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B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
*S - Spike Recovery outside accepted recovery limits*
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | | 0.407 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Trichloroethene | ND | | 0.603 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Vinyl chloride | ND | | 0.492 | 1.16 | µg/Kg-dry | 0.94 | 12/27/02 7:01 pm |
| Surr: 4-Bromofluorobenzene | 82.9 | | 0 | 70-130 | %REC | 0.94 | 12/27/02 7:01 pm |
| Surr: Dibromofluoromethane | 107 | | 0 | 70-130 | %REC | 0.94 | 12/27/02 7:01 pm |
| Surr: Toluene-d8 | 84.0 | | 0 | 70-130 | %REC | 0.94 | 12/27/02 7:01 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | Method: | SW8270C | | | | Analyst: DH |
| Acenaphthene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Acenaphthylene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Anthracene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Benzo(a)anthracene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Benzo(a)pyrene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Benzo(b)fluoranthene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Benzo(g,h,i)perylene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Benzo(k)fluoranthene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Chrysene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Dibenzo(a,h)anthracene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Fluoranthene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Fluorene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Indeno(1,2,3-cd)pyrene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Naphthalene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Phenanthrene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Pyrene | ND | | 49.5 | 149 | µg/Kg-dry | 1 | 12/26/02 9:26 pm |
| Surr: 2-Fluorobiphenyl | 74.4 | | 0 | 70-130 | %REC | 1 | 12/26/02 9:26 pm |
| Surr: 4-Terphenyl-d14 | 93.5 | | 0 | 70-130 | %REC | 1 | 12/26/02 9:26 pm |
| Surr: Nitrobenzene-d5 | 88.9 | | 0 | 70-130 | %REC | 1 | 12/26/02 9:26 pm |
| **MERCURY BY CVAA** | | Method: | SW7471A | | | | Analyst: DZ |
| Mercury | 0.019 | J | 0.0099 | 0.030 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | Method: | SW9045C | | | | Analyst: JD |
| pH | 8.32 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |
| **PERCENT MOISTURE** | | Method: | D2216 | | | | Analyst: BE |
| Percent Moisture | 19.2 | | 0 | 0 | wt% | 1 | 12/20/02 11:40 am |

**Qualifiers:**

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* - Value exceeds Maximum Contaminant Level
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-13 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 8:35 :00 AM
**Client Sample ID:** SB-115 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.52 | 1.6 | mg/Kg-dry | 1 | 12/26/02 9:08 pm |
| Barium | 92.0 | | 0.031 | 0.092 | mg/Kg-dry | 1 | 12/26/02 9:08 pm |
| Cadmium | ND | | 0.031 | 0.092 | mg/Kg-dry | 1 | 12/26/02 9:08 pm |
| Chromium | 13.7 | | 0.093 | 0.28 | mg/Kg-dry | 1 | 12/26/02 9:08 pm |
| Lead | 467 J | | 0.28 | 0.83 | mg/Kg-dry | 1 | 12/26/02 9:08 pm |
| Selenium | ND | | 0.40 | 1.2 | mg/Kg-dry | 1 | 12/26/02 9:08 pm |
| Silver | ND J | S | 0.031 | 0.092 | mg/Kg-dry | 1 | 12/26/02 9:08 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DH TBS 1/24/03 |
| Acenaphthene | 82 | J | 51.8 | 155 | µg/Kg-dry | 1 | 12/27/02 2:27 am |
| Acenaphthylene | 130 | J | 51.8 | 155 | µg/Kg-dry | 1 | 12/27/02 2:27 am |
| Anthracene | 888 | | 51.8 | 155 | µg/Kg-dry | 1 | 12/27/02 2:27 am |
| Benzo(a)anthracene | 6,650 | | 259 | 777 | µg/Kg-dry | 5 | 12/26/02 9:56 pm |
| Benzo(a)pyrene | 5,850 | | 259 | 777 | µg/Kg-dry | 5 | 12/26/02 9:56 pm |
| Benzo(b)fluoranthene | 6,260 | | 259 | 777 | µg/Kg-dry | 5 | 12/26/02 9:56 pm |
| Benzo(g,h,i)perylene | 3,500 | | 51.8 | 155 | µg/Kg-dry | 1 | 12/27/02 2:27 am |
| Benzo(k)fluoranthene | 1,830 | | 51.8 | 155 | µg/Kg-dry | 1 | 12/27/02 2:27 am |
| Chrysene | 5,390 | | 259 | 777 | µg/Kg-dry | 5 | 12/26/02 9:56 pm |
| Dibenzo(a,h)anthracene | 820 | | 51.8 | 155 | µg/Kg-dry | 1 | 12/27/02 2:27 am |
| Fluoranthene | 10,300 | | 259 | 777 | µg/Kg-dry | 5 | 12/26/02 9:56 pm |
| Fluorene | 120 | J | 51.8 | 155 | µg/Kg-dry | 1 | 12/27/02 2:27 am |
| Indeno(1,2,3-cd)pyrene | 3,210 | | 51.8 | 155 | µg/Kg-dry | 1 | 12/27/02 2:27 am |
| Naphthalene | 200 | | 51.8 | 155 | µg/Kg-dry | 1 | 12/27/02 2:27 am |
| Phenanthrene | 5,370 | | 259 | 777 | µg/Kg-dry | 5 | 12/26/02 9:56 pm |
| Pyrene | 10,800 | | 259 | 777 | µg/Kg-dry | 5 | 12/26/02 9:56 pm |
| Surr: 2-Fluorobiphenyl | 84.2 | | 0 | 70-130 | %REC | 1 | 12/27/02 2:27 am |
| Surr: 4-Terphenyl-d14 | 92.9 | | 0 | 70-130 | %REC | 1 | 12/27/02 2:27 am |
| Surr: Nitrobenzene-d5 | 84.6 | | 0 | 70-130 | %REC | 1 | 12/27/02 2:27 am |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | 0.215 | | 0.010 | 0.031 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: JD |
| pH | 12.22 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 22.8 | | 0 | 0 | wt% | 1 | 12/20/02 11:40 am |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
MDL-Continuous
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-14 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 8:41:00 AM
**Client Sample ID:** SB-115 (7-11) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.46 | 1.4 | mg/Kg-dry | 1 | 12/26/02 9:16 pm |
| Barium | 6.30 | | 0.027 | 0.081 | mg/Kg-dry | 1 | 12/26/02 9:16 pm |
| Cadmium | ND | | 0.027 | 0.081 | mg/Kg-dry | 1 | 12/26/02 9:16 pm |
| Chromium | 3.29 | | 0.081 | 0.24 | mg/Kg-dry | 1 | 12/26/02 9:16 pm |
| Lead | 4.87 J | | 0.24 | 0.73 | mg/Kg-dry | 1 | 12/26/02 9:16 pm |
| Selenium | ND | | 0.35 | 1.0 | mg/Kg-dry | 1 | 12/26/02 9:16 pm |
| Silver | ND UJ | S | 0.027 | 0.081 | mg/Kg-dry | 1 | 12/26/02 9:16 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DH TBS 1/29/03 |
| Acenaphthene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Acenaphthylene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Anthracene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Benzo(a)anthracene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Benzo(a)pyrene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Benzo(b)fluoranthene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Benzo(g,h,i)perylene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Benzo(k)fluoranthene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Chrysene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Dibenzo(a,h)anthracene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Fluoranthene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Fluorene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Indeno(1,2,3-cd)pyrene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Naphthalene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Phenanthrene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Pyrene | ND | | 49.8 | 149 | µg/Kg-dry | 1 | 12/26/02 10:26 pm |
| Surr: 2-Fluorobiphenyl | 87.2 | | 0 | 70-130 | %REC | 1 | 12/26/02 10:26 pm |
| Surr: 4-Terphenyl-d14 | 97.4 | | 0 | 70-130 | %REC | 1 | 12/26/02 10:26 pm |
| Surr: Nitrobenzene-d5 | 91.1 | | 0 | 70-130 | %REC | 1 | 12/26/02 10:26 pm |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | ND | | 0.010 | 0.030 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: JD |
| pH | 8.72 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 19.6 | | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

**Qualifiers:**
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* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-15 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 8:05:00 AM
**Client Sample ID:** SB-116 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.54 | 1.6 | mg/Kg-dry | 1 | 12/26/02 9:25 pm |
| Barium | 921 | | 0.032 | 0.096 | mg/Kg-dry | 1 | 12/26/02 9:25 pm |
| Cadmium | ND | | 0.032 | 0.096 | mg/Kg-dry | 1 | 12/26/02 9:25 pm |
| Chromium | 114 | | 0.096 | 0.29 | mg/Kg-dry | 1 | 12/26/02 9:25 pm |
| Lead | 2,870 J | | 0.29 | 0.86 | mg/Kg-dry | 1 | 12/26/02 9:25 pm |
| Selenium | ND | | 0.42 | 1.2 | mg/Kg-dry | 1 | 12/26/02 9:25 pm |
| Silver | ND UJ | S | 0.032 | 0.096 | mg/Kg-dry | 1 | 12/26/02 9:25 pm |
| **VOLATILE ORGANIC COMPOUNDS** | | | Method: SW8260B | | | | Analyst: BK |
| 1,1,1-Trichloroethane | ND | Q | 0.324 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| 1,1,2,2-Tetrachloroethane | ND | Q | 0.483 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| 1,1,2-Trichloroethane | ND | Q | 1.01 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| 1,1-Dichloroethane | ND | Q | 0.350 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| 1,1-Dichloroethene | ND | Q | 0.749 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| 1,2-Dichloroethane | ND | Q | 0.426 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| 1,2-Dichloropropane | ND | Q | 0.655 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| 2-Butanone | 5.3 | JQ | 2.20 | 7.29 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| 2-Hexanone | ND | Q | 1.09 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| 4-Methyl-2-pentanone | ND | Q | 0.889 | 7.29 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Acetone | 112 | Q | 4.32 | 7.29 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Benzene | 3.22 | Q | 0.462 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Bromodichloromethane | ND | Q | 0.294 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Bromoform | ND | Q | 0.730 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Bromomethane | ND | Q | 3.57 | 7.29 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Carbon disulfide | 8.99 | Q | 0.580 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Carbon tetrachloride | ND | Q | 0.558 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Chlorobenzene | ND | Q | 0.526 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Chloroethane | ND | Q | 5.86 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Chloroform | ND | Q | 0.327 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Chloromethane | ND | Q | 1.60 | 7.29 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| cis-1,2-Dichloroethene | ND | Q | 0.417 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| cis-1,3-Dichloropropene | ND | Q | 0.424 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Dibromochloromethane | ND | Q | 0.499 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Ethylbenzene | 0.77 | JQ | 0.548 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| m,p-Xylene | 2.7 | JQ | 1.24 | 2.92 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Methyl tert-butyl ether | ND | Q | 0.382 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Methylene chloride | ND | Q | 0.574 | 7.29 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| o-Xylene | 1.2 | JQ | 0.795 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Styrene | ND | Q | 0.494 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Tetrachloroethene | 2.29 | Q | 1.17 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Toluene | 2.22 | Q | 0.558 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| trans-1,2-Dichloroethene | ND | Q | 0.790 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |

TBS 1/29/03

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | Q | 0.510 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Trichloroethene | 0.85 | JQ | 0.755 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Vinyl chloride | ND | Q | 0.617 | 1.46 | µg/Kg-dry | 1.14 | 12/27/02 7:45 pm |
| Surr: 4-Bromofluorobenzene | 66.2 | SQ | 0 | 70-130 | %REC | 1.14 | 12/27/02 7:45 pm |
| Surr: Dibromofluoromethane | 103 | Q | 0 | 70-130 | %REC | 1.14 | 12/27/02 7:45 pm |
| Surr: Toluene-d8 | 82.3 | Q | 0 | 70-130 | %REC | 1.14 | 12/27/02 7:45 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DH |
| Acenaphthene | 157 | | 51.2 | 153 | µg/Kg-dry | 1 | 12/27/02 2:57 am |
| Acenaphthylene | 94 | J | 51.2 | 153 | µg/Kg-dry | 1 | 12/27/02 2:57 am |
| Anthracene | 858 | | 51.2 | 153 | µg/Kg-dry | 1 | 12/27/02 2:57 am |
| Benzo(a)anthracene | 5,010 | | 512 | 1,530 | µg/Kg-dry | 10 | 12/27/02 6:33 pm |
| Benzo(a)pyrene | 3,740 | | 51.2 | 153 | µg/Kg-dry | 1 | 12/27/02 2:57 am |
| Benzo(b)fluoranthene | 6,440 | | 512 | 1,530 | µg/Kg-dry | 10 | 12/27/02 6:33 pm |
| Benzo(g,h,i)perylene | 2,100 | | 51.2 | 153 | µg/Kg-dry | 1 | 12/27/02 2:57 am |
| Benzo(k)fluoranthene | 1,550 | | 51.2 | 153 | µg/Kg-dry | 1 | 12/27/02 2:57 am |
| Chrysene | 4,550 | | 51.2 | 153 | µg/Kg-dry | 1 | 12/27/02 2:57 am |
| Dibenzo(a,h)anthracene | 648 | | 51.2 | 153 | µg/Kg-dry | 1 | 12/27/02 2:57 am |
| Fluoranthene | 10,800 | | 512 | 1,530 | µg/Kg-dry | 10 | 12/27/02 6:33 pm |
| Fluorene | 210 | | 51.2 | 153 | µg/Kg-dry | 1 | 12/27/02 2:57 am |
| Indeno(1,2,3-cd)pyrene | 2,460 | | 51.2 | 153 | µg/Kg-dry | 1 | 12/27/02 2:57 am |
| Naphthalene | 254 | | 51.2 | 153 | µg/Kg-dry | 1 | 12/27/02 2:57 am |
| Phenanthrene | 5,140 | | 512 | 1,530 | µg/Kg-dry | 10 | 12/27/02 6:33 pm |
| Pyrene | 8,340 | | 512 | 1,530 | µg/Kg-dry | 10 | 12/27/02 6:33 pm |
| Surr: 2-Fluorobiphenyl | 79.3 | | 0 | 70-130 | %REC | 1 | 12/27/02 2:57 am |
| Surr: 4-Terphenyl-d14 | 90.7 | | 0 | 70-130 | %REC | 1 | 12/27/02 2:57 am |
| Surr: Nitrobenzene-d5 | 86.4 | | 0 | 70-130 | %REC | 1 | 12/27/02 2:57 am |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | 0.145 | | 0.010 | 0.031 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: JD |
| pH | 7.95 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 21.8 | | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

**Qualifiers:**
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**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-16 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 8:05:00 AM
**Client Sample ID:** SB-116 (0-3) Dup **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | | Method: SW8260B | | | | Analyst: BK |
| 1,1,1-Trichloroethane | ND | Q | 0.224 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| 1,1,2,2-Tetrachloroethane | ND | Q | 0.334 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| 1,1,2-Trichloroethane | ND | Q | 0.699 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| 1,1-Dichloroethane | ND | Q | 0.242 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| 1,1-Dichloroethene | ND | Q | 0.519 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| 1,2-Dichloroethane | ND | Q | 0.295 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| 1,2-Dichloropropane | ND | Q | 0.453 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| 2-Butanone | 7.47 | Q | 1.53 | 5.05 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| 2-Hexanone | ND | Q | 0.752 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| 4-Methyl-2-pentanone | ND | Q | 0.616 | 5.05 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Acetone | 106 | Q | 2.99 | 5.05 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Benzene | 4.21 | Q | 0.320 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Bromodichloromethane | ND | Q | 0.204 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Bromoform | ND | Q | 0.506 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Bromomethane | ND | Q | 2.47 | 5.05 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Carbon disulfide | 3.43 | Q | 0.402 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Carbon tetrachloride | ND | Q | 0.387 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Chlorobenzene | ND | Q | 0.365 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Chloroethane | ND | Q | 4.06 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Chloroform | ND | Q | 0.226 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Chloromethane | ND | Q | 1.11 | 5.05 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| cis-1,2-Dichloroethene | ND | Q | 0.289 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| cis-1,3-Dichloropropene | ND | Q | 0.294 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Dibromochloromethane | ND | Q | 0.345 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Ethylbenzene | 0.86 | JQ | 0.380 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| m,p-Xylene | 3.66 | Q | 0.861 | 2.02 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Methyl tert-butyl ether | ND | Q | 0.265 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Methylene chloride | ND | Q | 0.398 | 5.05 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| o-Xylene | 1.32 | Q | 0.550 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Styrene | ND | Q | 0.342 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Tetrachloroethene | 2.35 | Q | 0.811 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Toluene | 2.93 | Q | 0.387 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| trans-1,2-Dichloroethene | ND | Q | 0.547 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| trans-1,3-Dichloropropene | ND | Q | 0.354 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Trichloroethene | 1.19 | Q | 0.523 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Vinyl chloride | ND | Q | 0.427 | 1.01 | µg/Kg | 1.01 | 12/28/02 4:55 pm |
| Surr: 4-Bromofluorobenzene | 63.9 | SQ | 0 | 70-130 | %REC | 1.01 | 12/28/02 4:55 pm |
| Surr: Dibromofluoromethane | 111 | Q | 0 | 70-130 | %REC | 1.01 | 12/28/02 4:55 pm |
| Surr: Toluene-d8 | 85.5 | Q | 0 | 70-130 | %REC | 1.01 | 12/28/02 4:55 pm |

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H - Analysis run past method holding time

MDL-Continued

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-23 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 7:30:00 AM
**Client Sample ID:** SB-118 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.50 | 1.5 | mg/Kg-dry | 1 | 12/26/02 10:00 pm |
| Barium | 233 | | 0.029 | 0.088 | mg/Kg-dry | 1 | 12/26/02 10:00 pm |
| Cadmium | ND | | 0.029 | 0.088 | mg/Kg-dry | 1 | 12/26/02 10:00 pm |
| Chromium | 61.0 | | 0.088 | 0.26 | mg/Kg-dry | 1 | 12/26/02 10:00 pm |
| Lead | 901 | J | 0.27 | 0.80 | mg/Kg-dry | 1 | 12/26/02 10:00 pm |
| Selenium | ND | | 0.38 | 1.2 | mg/Kg-dry | 1 | 12/26/02 10:00 pm |
| Silver | ND | UJ S | 0.029 | 0.088 | mg/Kg-dry | 1 | 12/26/02 10:00 pm |
| **ORGANOCHLORINE PESTICIDES** | | | Method: SW8081A | | | | Analyst: LA TBS 1/29/03 |
| 4,4-DDD | ND | | 23.6 | 70.8 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| 4,4-DDE | ND | | 47.2 | 142 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| 4,4-DDT | ND | | 23.6 | 70.8 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Aldrin | ND | | 47.2 | 142 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| alpha-BHC | ND | | 47.2 | 142 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| alpha-Chlordane | ND | | 35.4 | 106 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| beta-BHC | ND | | 70.8 | 212 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Chlordane | ND | | 1,180 | 3,540 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| delta-BHC | ND | | 23.6 | 70.8 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Dieldrin | ND | | 142 | 425 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Endosulfan I | ND | | 47.2 | 142 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Endosulfan II | ND | | 35.4 | 106 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Endosulfan sulfate | ND | | 47.2 | 142 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Endrin | ND | | 47.2 | 142 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Endrin aldehyde | ND | | 259 | 778 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Endrin ketone | ND | | 23.6 | 70.8 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| gamma-BHC | ND | | 23.6 | 70.8 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| gamma-Chlordane | ND | | 47.2 | 142 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Heptachlor | ND | | 11.8 | 35.4 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Heptachlor epoxide | ND | | 70.8 | 212 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Methoxychlor | ND | | 307 | 920 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Toxaphene | ND | | 2,360 | 7,080 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Surr: Tetrachloro-m-xylene | 79.9 | | 0 | 33.7-156 | %REC | 10 | 12/28/02 4:31 am |
| **PCBS** | | | Method: SW8082 | | | | Analyst: LA |
| Aroclor 1016 | ND | | 1,180 | 3,540 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Aroclor 1221 | ND | | 1,180 | 3,540 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Aroclor 1232 | ND | | 1,180 | 3,540 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Aroclor 1242 | ND | | 1,180 | 3,540 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Aroclor 1248 | ND | | 1,180 | 3,540 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Aroclor 1254 | ND | | 1,180 | 3,540 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Aroclor 1260 | ND | | 1,180 | 3,540 | µg/Kg-dry | 10 | 12/28/02 4:31 am |
| Surr: Tetrachloro-m-xylene | 102 | | 0 | 33.7-156 | %REC | 10 | 12/28/02 4:31 am |

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**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-22 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 10:19:00 AM
**Client Sample ID:** SB-117 (7-11) Dup **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | Method: | SW8270C | | | | Analyst: DH |
| Acenaphthene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Acenaphthylene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Anthracene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Benzo(a)anthracene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Benzo(a)pyrene | ND | Q | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Benzo(b)fluoranthene | ND | Q | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Benzo(g,h,i)perylene | ND | Q | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Benzo(k)fluoranthene | ND | Q | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Chrysene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Dibenzo(a,h)anthracene | ND | Q | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Fluoranthene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Fluorene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Indeno(1,2,3-cd)pyrene | ND | Q | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Naphthalene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Phenanthrene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Pyrene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 1:57 am |
| Surr: 2-Fluorobiphenyl | 89.1 | | 0 | 70-130 | %REC | 1 | 12/27/02 1:57 am |
| Surr: 4-Terphenyl-d14 | 112 | | 0 | 70-130 | %REC | 1 | 12/27/02 1:57 am |
| Surr: Nitrobenzene-d5 | 97.9 | | 0 | 70-130 | %REC | 1 | 12/27/02 1:57 am |
| **PERCENT MOISTURE** | | Method: | D2216 | | | | Analyst: BE |
| Percent Moisture | 20.1 | | 0 | 0 | wt% | 1 | 12/26/02 3:50 pm |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continued

# Suburban Laboratories, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*

**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-21 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 10:19:00 AM

**Client Sample ID:** SB-117 (7-11) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.46 | 1.4 | mg/Kg-dry | 1 | 12/26/02 9:51 pm |
| Barium | 4.08 | | 0.028 | 0.082 | mg/Kg-dry | 1 | 12/26/02 9:51 pm |
| Cadmium | ND | | 0.028 | 0.082 | mg/Kg-dry | 1 | 12/26/02 9:51 pm |
| Chromium | 3.37 | | 0.081 | 0.25 | mg/Kg-dry | 1 | 12/26/02 9:51 pm |
| Lead | 2.16 J | | 0.25 | 0.74 | mg/Kg-dry | 1 | 12/26/02 9:51 pm |
| Selenium | ND | | 0.35 | 1.1 | mg/Kg-dry | 1 | 12/26/02 9:51 pm |
| Silver | ND UJ | S | 0.028 | 0.082 | mg/Kg-dry | 1 | 12/26/02 9:51 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DH TBS 1/24/03 |
| Acenaphthene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Acenaphthylene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Anthracene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Benzo(a)anthracene | ND | Q | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Benzo(a)pyrene | ND | Q | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Benzo(b)fluoranthene | ND | Q | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Benzo(g,h,i)perylene | ND | Q | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Benzo(k)fluoranthene | ND | Q | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Chrysene | ND | Q | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Dibenzo(a,h)anthracene | ND | Q | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Fluoranthene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Fluorene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Indeno(1,2,3-cd)pyrene | ND | Q | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Naphthalene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Phenanthrene | ND | | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Pyrene | ND | Q | 50.1 | 150 | µg/Kg-dry | 1 | 12/27/02 12:26 am |
| Surr: 2-Fluorobiphenyl | 79.4 | | 0 | 70-130 | %REC | 1 | 12/27/02 12:26 am |
| Surr: 4-Terphenyl-d14 | 111 | Q | 0 | 70-130 | %REC | 1 | 12/27/02 12:26 am |
| Surr: Nitrobenzene-d5 | 90.7 | | 0 | 70-130 | %REC | 1 | 12/27/02 12:26 am |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | ND | | 0.010 | 0.030 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: JD |
| pH | 8.20 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 20.2 | | 0 | 0 | wt% | 1 | 12/26/02 3:50 pm |

**Qualifiers:**

ND - Not Detected at the Method Detection Limit

J - Estimated or analyte detected below quantitation limit

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-20 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 10:16:00 AM
**Client Sample ID:** SB-117 (0-3) Dup **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | Method: | SW8270C | | | | Analyst: DH |
| Acenaphthene | ND | | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Acenaphthylene | ND | | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Anthracene | ND | | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Benzo(a)anthracene | 70 | J | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Benzo(a)pyrene | ND | | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Benzo(b)fluoranthene | 64 | J | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Benzo(g,h,i)perylene | ND | | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Benzo(k)fluoranthene | ND | | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Chrysene | 43 | J | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Dibenzo(a,h)anthracene | ND | | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Fluoranthene | 63 | J | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Fluorene | ND | | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Indeno(1,2,3-cd)pyrene | ND | | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Naphthalene | ND | | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Phenanthrene | 64 | J | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Pyrene | 57 | J | 41.5 | 125 | µg/Kg-dry | 1 | 12/26/02 11:56 pm |
| Surr: 2-Fluorobiphenyl | 87.9 | | 0 | 70-130 | %REC | 1 | 12/26/02 11:56 pm |
| Surr: 4-Terphenyl-d14 | 95.1 | | 0 | 70-130 | %REC | 1 | 12/26/02 11:56 pm |
| Surr: Nitrobenzene-d5 | 91.4 | | 0 | 70-130 | %REC | 1 | 12/26/02 11:56 pm |
| **PERCENT MOISTURE** | | Method: | D2216 | | | | Analyst: BE |
| Percent Moisture | 3.72 | | 0 | 0 | wt% | 1 | 12/26/02 3:50 pm |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
MDL-Continuous
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**roject:** 76th & Parnell

**Lab Sample ID:** 02120794-19 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 10:16:00 AM
**lient Sample ID:** SB-117 (0-3) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **ETALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.37 | 1.1 | mg/Kg-dry | 1 | 12/26/02 9:42 pm |
| Barium | 5.99 | | 0.022 | 0.065 | mg/Kg-dry | 1 | 12/26/02 9:42 pm |
| *Cadmium* | *ND* | | *0.022* | *0.065* | *mg/Kg-dry* | *1* | 12/26/02 9:42 pm |
| Chromium | 2.59 | | 0.065 | 0.20 | mg/Kg-dry | 1 | 12/26/02 9:42 pm |
| Lead | 7.10 | UJ | 0.20 | 0.59 | mg/Kg-dry | 1 | 12/26/02 9:42 pm |
| Selenium | ND | | 0.28 | 0.85 | mg/Kg-dry | 1 | 12/26/02 9:42 pm |
| Silver | ND | UJ S | 0.022 | 0.065 | mg/Kg-dry | 1 | 12/26/02 9:42 pm |
| **SEMIVOLATILE ORGANICS, BY GCMS SIM** | | | Method: SW8270C | | | | Analyst: DH TBS 11 29 03 |
| Acenaphthene | ND | | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Acenaphthylene | ND | | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Anthracene | ND | | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Benzo(a)anthracene | 73 | J | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Benzo(a)pyrene | 55 | J | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Benzo(b)fluoranthene | 95 | J | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Benzo(g,h,i)perylene | ND | | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Benzo(k)fluoranthene | ND | | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Chrysene | ND | | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Dibenzo(a,h)anthracene | ND | | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Fluoranthene | 73 | J | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Fluorene | ND | | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Indeno(1,2,3-cd)pyrene | ND | | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Naphthalene | ND | | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Phenanthrene | 71 | J | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Pyrene | 70 | J | 52.1 | 156 | µg/Kg-dry | 1 | 12/26/02 11:26 pm |
| Surr: 2-Fluorobiphenyl | 78.9 | | 0 | 70-130 | %REC | 1 | 12/26/02 11:26 pm |
| Surr: 4-Terphenyl-d14 | 88.9 | | 0 | 70-130 | %REC | 1 | 12/26/02 11:26 pm |
| Surr: Nitrobenzene-d5 | 82.9 | | 0 | 70-130 | %REC | 1 | 12/26/02 11:26 pm |
| **MERCURY BY CVAA** | | | Method: SW7471A | | | | Analyst: DZ |
| Mercury | ND | | 0.0083 | 0.025 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **PH (IN LABORATORY)** | | | Method: SW9045C | | | | Analyst: JD |
| pH | 7.89 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |
| **PERCENT MOISTURE** | | | Method: D2216 | | | | Analyst: BE |
| Percent Moisture | 4.05 | | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continued

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-18 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 8:07:00 AM
**Client Sample ID:** SB-116 (7-11) Dup **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS** | | Method: | SW8260B | | | | Analyst: BK |
| 1,1,1-Trichloroethane | ND | | 0.238 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| 1,1,2,2-Tetrachloroethane | ND | | 0.354 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| 1,1,2-Trichloroethane | ND | | 0.740 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| 1,1-Dichloroethane | ND | | 0.257 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| 1,1-Dichloroethene | ND | | 0.550 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| 1,2-Dichloroethane | ND | | 0.312 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| 1,2-Dichloropropane | ND | | 0.480 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| 2-Butanone | ND | | 1.62 | 5.35 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| 2-Hexanone | ND | | 0.797 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| 4-Methyl-2-pentanone | ND | | 0.653 | 5.35 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Acetone | ND | | 3.17 | 5.35 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Benzene | 1.68 | | 0.339 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Bromodichloromethane | ND | | 0.216 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Bromoform | ND | | 0.536 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Bromomethane | ND | | 2.62 | 5.35 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Carbon disulfide | ND | | 0.426 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Carbon tetrachloride | ND | | 0.410 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Chlorobenzene | ND | | 0.386 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Chloroethane | ND | | 4.30 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Chloroform | 0.67 | J | 0.240 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Chloromethane | ND | | 1.18 | 5.35 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| cis-1,2-Dichloroethene | ND | | 0.306 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| cis-1,3-Dichloropropene | ND | | 0.311 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Dibromochloromethane | ND | | 0.366 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Ethylbenzene | ND | | 0.402 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| m,p-Xylene | ND | | 0.912 | 2.14 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Methyl tert-butyl ether | ND | | 0.280 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Methylene chloride | ND | | 0.422 | 5.35 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| o-Xylene | ND | | 0.583 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Styrene | ND | | 0.363 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Tetrachloroethene | ND | | 0.859 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Toluene | 1.31 | | 0.410 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| trans-1,2-Dichloroethene | ND | | 0.580 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| trans-1,3-Dichloropropene | ND | | 0.374 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Trichloroethene | ND | | 0.554 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Vinyl chloride | ND | | 0.453 | 1.07 | µg/Kg | 1.07 | 12/27/02 9:57 pm |
| Surr: 4-Bromofluorobenzene | 89.5 | | 0 | 70-130 | %REC | 1.07 | 12/27/02 9:57 pm |
| Surr: Dibromofluoromethane | 112 | | 0 | 70-130 | %REC | 1.07 | 12/27/02 9:57 pm |
| Surr: Toluene-d8 | 89.3 | | 0 | 70-130 | %REC | 1.07 | 12/27/02 9:57 pm |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *trans-1,3-Dichloropropene* | ND | | 0.397 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Trichloroethene | 0.61 | J | 0.588 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Vinyl chloride | ND | | 0.480 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Surr: 4-Bromofluorobenzene | 93.6 | | 0 | 70-130 | %REC | 0.92 | 12/27/02 9:15 pm |
| Surr: Dibromofluoromethane | 113 | | 0 | 70-130 | %REC | 0.92 | 12/27/02 9:15 pm |
| Surr: Toluene-d8 | 89.1 | | 0 | 70-130 | %REC | 0.92 | 12/27/02 9:15 pm |

**SEMIVOLATILE ORGANICS, BY GCMS SIM** Method: SW8270C Analyst: DH

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Acenaphthylene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Anthracene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Benzo(a)anthracene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Benzo(a)pyrene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Benzo(b)fluoranthene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Benzo(g,h,i)perylene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Benzo(k)fluoranthene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Chrysene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Dibenzo(a,h)anthracene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Fluoranthene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Fluorene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Indeno(1,2,3-cd)pyrene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Naphthalene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Phenanthrene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Pyrene | ND | | 49.3 | 148 | µg/Kg-dry | 1 | 12/26/02 10:56 pm |
| Surr: 2-Fluorobiphenyl | 85.5 | | 0 | 70-130 | %REC | 1 | 12/26/02 10:56 pm |
| Surr: 4-Terphenyl-d14 | 94.6 | | 0 | 70-130 | %REC | 1 | 12/26/02 10:56 pm |
| Surr: Nitrobenzene-d5 | 90.2 | | 0 | 70-130 | %REC | 1 | 12/26/02 10:56 pm |

**MERCURY BY CVAA** Method: SW7471A Analyst: DZ

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mercury | 0.0348 | | 0.0099 | 0.030 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |

**PH (IN LABORATORY)** Method: SW9045C Analyst: JD

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| pH | 8.14 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |

**PERCENT MOISTURE** Method: D2216 Analyst: BE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 18.9 | | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

**Qualifiers:**

ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-17 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 8:07:00 AM
**Client Sample ID:** SB-116 (7-11) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.52 | 1.6 | mg/Kg-dry | 1 | 12/26/02 9:33 pm |
| Barium | 5.85 | | 0.031 | 0.092 | mg/Kg-dry | 1 | 12/26/02 9:33 pm |
| Cadmium | ND | | 0.031 | 0.092 | mg/Kg-dry | 1 | 12/26/02 9:33 pm |
| Chromium | 4.20 | | 0.092 | 0.28 | mg/Kg-dry | 1 | 12/26/02 9:33 pm |
| Lead | 15.4 J | | 0.28 | 0.83 | mg/Kg-dry | 1 | 12/26/02 9:33 pm |
| Selenium | ND | | 0.40 | 1.2 | mg/Kg-dry | 1 | 12/26/02 9:33 pm |
| Silver | ND UJ | S | 0.031 | 0.092 | mg/Kg-dry | 1 | 12/26/02 9:33 pm |
| **VOLATILE ORGANIC COMPOUNDS** | | | Method: SW8260B | | | | Analyst: BK |
| 1,1,1-Trichloroethane | ND | | 0.252 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| 1,1,2,2-Tetrachloroethane | ND | | 0.375 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| 1,1,2-Trichloroethane | ND | | 0.785 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| 1,1-Dichloroethane | ND | | 0.272 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| 1,1-Dichloroethene | ND | | 0.583 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| 1,2-Dichloroethane | ND | | 0.331 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| 1,2-Dichloropropane | ND | | 0.509 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| 2-Butanone | ND | | 1.71 | 5.67 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| 2-Hexanone | ND | | 0.845 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| 4-Methyl-2-pentanone | ND | | 0.692 | 5.67 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Acetone | ND | | 3.36 | 5.67 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Benzene | 1.93 | | 0.360 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Bromodichloromethane | ND | | 0.229 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Bromoform | ND | | 0.568 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Bromomethane | ND | | 2.78 | 5.67 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Carbon disulfide | ND | | 0.451 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Carbon tetrachloride | ND | | 0.434 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Chlorobenzene | ND | | 0.410 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Chloroethane | ND | | 4.56 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Chloroform | 0.61 | J | 0.254 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Chloromethane | ND | | 1.25 | 5.67 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| cis-1,2-Dichloroethene | ND | | 0.324 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| cis-1,3-Dichloropropene | ND | | 0.330 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Dibromochloromethane | ND | | 0.388 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Ethylbenzene | ND | | 0.427 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| m,p-Xylene | ND | | 0.967 | 2.27 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Methyl tert-butyl ether | ND | | 0.297 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Methylene chloride | ND | | 0.447 | 5.67 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| o-Xylene | ND | | 0.618 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Styrene | ND | | 0.385 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Tetrachloroethene | ND | | 0.911 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| Toluene | 1.50 | | 0.434 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |
| trans-1,2-Dichloroethene | ND | | 0.615 | 1.13 | µg/Kg-dry | 0.92 | 12/27/02 9:15 pm |

TBS 1/29/03

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
MDL-Continuous
*J - Estimated or analyte detected below quantitation limit*
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc.
**Project:** 76th & Parnell

**Lab Order #:** *02120794*

## VOLATILE ORGANIC COMPOUNDS

Method: SW8260B — Analyst: BK

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 0.461 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| 1,1,2,2-Tetrachloroethane | ND | Q | 0.687 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| 1,1,2-Trichloroethane | ND | | 1.44 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| 1,1-Dichloroethane | ND | | 0.498 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| 1,1-Dichloroethene | ND | | 1.07 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| 1,2-Dichloroethane | ND | | 0.606 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| 1,2-Dichloropropane | ND | | 0.932 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| 2-Butanone | 8.3 | J | 3.13 | 10.4 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| 2-Hexanone | ND | | 1.55 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| 4-Methyl-2-pentanone | ND | | 1.27 | 10.4 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Acetone | 135 | | 6.14 | 10.4 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Benzene | 1.3 | J | 0.658 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Bromodichloromethane | ND | | 0.419 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Bromoform | ND | | 1.04 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Bromomethane | ND | | 5.08 | 10.4 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Carbon disulfide | 2.0 | J | 0.826 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Carbon tetrachloride | ND | | 0.795 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Chlorobenzene | ND | | 0.749 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Chloroethane | ND | | 8.34 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Chloroform | 1.2 | J | 0.465 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Chloromethane | ND | | 2.28 | 10.4 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| cis-1,2-Dichloroethene | ND | | 0.594 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| cis-1,3-Dichloropropene | ND | | 0.604 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Dibromochloromethane | ND | | 0.710 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Ethylbenzene | ND | | 0.780 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| m,p-Xylene | 3.1 | J | 1.77 | 4.15 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Methyl tert-butyl ether | ND | | 0.544 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Methylene chloride | ND | | 0.818 | 10.4 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| o-Xylene | 1.4 | J | 1.13 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Styrene | ND | | 0.704 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Tetrachloroethene | 2.1 | J | 1.67 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Toluene | 2.37 | | 0.795 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| trans-1,2-Dichloroethene | ND | | 1.12 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| trans-1,3-Dichloropropene | ND | | 0.726 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Trichloroethene | 2.53 | | 1.08 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Vinyl chloride | ND | | 0.878 | 2.08 | µg/Kg-dry | 1.76 | 12/28/02 5:41 pm |
| Surr: 4-Bromofluorobenzene | 70.7 | | 0 | 70-130 | %REC | 1.76 | 12/28/02 5:41 pm |
| Surr: Dibromofluoromethane | 117 | | 0 | 70-130 | %REC | 1.76 | 12/28/02 5:41 pm |
| Surr: Toluene-d8 | 84.8 | | 0 | 70-130 | %REC | 1.76 | 12/28/02 5:41 pm |

## SEMIVOLATILE ORGANICS, BY GCMS SIM

Method: SW8270C — Analyst: DH

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 100 | J | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |
| Acenaphthylene | ND | | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |
| Anthracene | 222 | | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |
| Benzo(a)anthracene | 1,200 | | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |
| Benzo(a)pyrene | 1,010 | | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |

**Qualifiers:**
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* - Value exceeds Maximum Contaminant Level
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Benzo(b)fluoranthene | 1,350 | | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |
| Benzo(g,h,i)perylene | 616 | | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |
| Benzo(k)fluoranthene | 492 | | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |
| Chrysene | 989 | | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |
| Dibenzo(a,h)anthracene | 158 | | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |
| Fluoranthene | 2,500 | | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |
| Fluorene | 93 | J | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |
| Indeno(1,2,3-cd)pyrene | 652 | | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |
| Naphthalene | 66 | J | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |
| Phenanthrene | 1,720 | | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |
| Pyrene | 1,990 | | 47.2 | 142 | µg/Kg-dry | 1 | 12/27/02 12:57 am |
| Surr: 2-Fluorobiphenyl | 82.3 | | 0 | 70-130 | %REC | 1 | 12/27/02 12:57 am |
| Surr: 4-Terphenyl-d14 | 95.8 | | 0 | 70-130 | %REC | 1 | 12/27/02 12:57 am |
| Surr: Nitrobenzene-d5 | 84.1 | | 0 | 70-130 | %REC | 1 | 12/27/02 12:57 am |
| **MERCURY BY CVAA** | | Method: | SW7471A | | | | Analyst: DZ |
| Mercury | 0.0847 | | 0.0094 | 0.028 | mg/Kg-dry | 1 | 12/26/02 5:25 pm |
| **LEAD BY GFAA, TCLP** | | Method: | SW1311/7421 | | | | Analyst: DZ |
| Lead | 1.80 | | 0.1 | 0.3 | mg/L | 50 | 12/26/02 6:05 pm |
| **PH (IN LABORATORY)** | | Method: | SW9045C | | | | Analyst: JD |
| pH | 8.48 | | 0 | 0 | pH Units | 1 | 12/20/02 7:23 am |
| **PERCENT MOISTURE** | | Method: | D2216 | | | | Analyst: BE |
| Percent Moisture | 15.2 | | 0 | 0 | wt% | 1 | 12/24/02 12:30 pm |

**Lab Sample ID:** 02120794-24 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 7:30:00 AM
**Client Sample ID:** SB-118 (0-3) Dup **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **LEAD BY GFAA, TCLP** | | Method: | SW1311/7421 | | | | Analyst: DZ |
| Lead | 6.05 | * | 0.5 | 2 | mg/L | 250 | 12/26/02 6:05 pm |

**Qualifiers:**
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120794-25 **Date Received:** 12/19/02 5:20:00 PM **Collection Date:** 12/19/02 7:37:00 AM
**Client Sample ID:** SB-118 (7-11) **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | Method: | SW6010B | | | | Analyst: RA |
| Arsenic | ND | | 0.53 | 1.6 | mg/Kg-dry | 1 | 12/26/02 10:08 pm |
| Barium | 4.09 | | 0.031 | 0.093 | mg/Kg-dry | 1 | 12/26/02 10:08 pm |
| Cadmium | ND | | 0.031 | 0.093 | mg/Kg-dry | 1 | 12/26/02 10:08 pm |
| Chromium | 4.73 | | 0.093 | 0.28 | mg/Kg-dry | 1 | 12/26/02 10:08 pm |
| Lead | 9.44 J | | 0.28 | 0.84 | mg/Kg-dry | 1 | 12/26/02 10:08 pm |
| Selenium | ND | | 0.40 | 1.2 | mg/Kg-dry | 1 | 12/26/02 10:08 pm |
| Silver | ND UJ | S | 0.031 | 0.093 | mg/Kg-dry | 1 | 12/26/02 10:08 pm |
| **VOLATILE ORGANIC COMPOUNDS** | | Method: | SW8260B | | | | Analyst: BK |
| 1,1,1-Trichloroethane | ND | | 0.250 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| 1,1,2,2-Tetrachloroethane | ND | | 0.373 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| 1,1,2-Trichloroethane | ND | | 0.780 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| 1,1-Dichloroethane | ND | | 0.271 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| 1,1-Dichloroethene | ND | | 0.580 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| 1,2-Dichloroethane | ND | | 0.329 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| 1,2-Dichloropropane | ND | | 0.506 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| 2-Butanone | ND | | 1.70 | 5.64 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| 2-Hexanone | ND | | 0.840 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| 4-Methyl-2-pentanone | ND | | 0.688 | 5.64 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Acetone | 38.5 | | 3.34 | 5.64 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Benzene | 1.0 | J | 0.357 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Bromodichloromethane | ND | | 0.228 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Bromoform | ND | | 0.565 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Bromomethane | ND | | 2.76 | 5.64 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Carbon disulfide | 1.26 | | 0.449 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Carbon tetrachloride | ND | | 0.432 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Chlorobenzene | ND | | 0.407 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Chloroethane | ND | | 4.53 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Chloroform | ND | | 0.253 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Chloromethane | ND | | 1.24 | 5.64 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| cis-1,2-Dichloroethene | ND | | 0.323 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| cis-1,3-Dichloropropene | ND | | 0.328 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Dibromochloromethane | ND | | 0.386 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Ethylbenzene | ND | | 0.424 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| m,p-Xylene | ND | | 0.961 | 2.26 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Methyl tert-butyl ether | ND | | 0.295 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Methylene chloride | ND | | 0.444 | 5.64 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| o-Xylene | ND | | 0.615 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Styrene | ND | | 0.382 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Tetrachloroethene | ND | | 0.905 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Toluene | 0.64 | J | 0.432 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| trans-1,2-Dichloroethene | ND | | 0.611 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |

TBS 1/29/03

**Qualifiers:**
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B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | | 0.395 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Trichloroethene | ND | | 0.584 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Vinyl chloride | ND | | 0.477 | 1.13 | µg/Kg-dry | 0.91 | 12/28/02 6:24 pm |
| Surr: 4-Bromofluorobenzene | 88.6 | | 0 | 70-130 | %REC | 0.91 | 12/28/02 6:24 pm |
| Surr: Dibromofluoromethane | 109 | | 0 | 70-130 | %REC | 0.91 | 12/28/02 6:24 pm |
| Surr: Toluene-d8 | 81.0 | | 0 | 70-130 | %REC | 0.91 | 12/28/02 6:24 pm |

**SEMIVOLATILE ORGANICS (BNAS)** Method: SW8270C Analyst: DP

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | | 106 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 1,2-Dichlorobenzene | ND | | 195 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 1,3-Dichlorobenzene | ND | | 100 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 1,4-Dichlorobenzene | ND | | 91.3 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 2,4,5-Trichlorophenol | ND | | 74.7 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 2,4,6-Trichlorophenol | ND | | 78.4 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 2,4-Dichlorophenol | ND | | 79.7 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 2,4-Dimethylphenol | ND | | 91.7 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 2,4-Dinitrophenol | ND | | 62.8 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 2,4-Dinitrotoluene | ND | | 44.6 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 2,6-Dinitrotoluene | ND | | 87.1 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 2-Chloronaphthalene | ND | | 58.6 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 2-Chlorophenol | ND | | 204 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 2-Methylnaphthalene | ND | | 78.1 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 2-Nitroaniline | ND | | 39.3 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 2-Nitrophenol | ND | | 52.9 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 3,3-Dichlorobenzidine | ND | | 72.7 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 3-Nitroaniline | ND | | 48.7 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 4,6-Dinitro-2-methylphenol | ND | | 44.2 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 4-Bromophenyl phenyl ether | ND | | 30.7 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 4-Chloro-3-methylphenol | ND | | 114 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 4-Chloroaniline | ND | | 43.7 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 4-Chlorophenyl phenyl ether | ND | | 34.2 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 4-Nitroaniline | ND | | 61.6 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| 4-Nitrophenol | ND UJ ~~S~~ | | 44.6 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| Bis(2-chloroethoxy)methane | ND | | 98.8 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| Bis(2-chloroethyl)ether | ND | | 177 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| Bis(2-chloroisopropyl)ether | ND | | 177 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| Bis(2-ethylhexyl)phthalate | ND | Q | 207 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| Butyl benzyl phthalate | ND | Q | 88.8 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| Carbazole | ND | | 207 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| Di-n-butyl phthalate | ND | | 99.5 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| Di-n-octyl phthalate | ND | Q | 56.1 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| Dibenzofuran | ND | | 38.4 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| Diethyl phthalate | ND | | 46.7 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| Dimethyl phthalate | ND | | 62.3 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| Hexachlorobutadiene | ND | | 113 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| Hexachlorocyclopentadiene | ND | | 102 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| Hexachloroethane | ND | | 120 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |
| Isophorone | ND | | 52.9 | 207 | µg/Kg-dry | 1 | 12/27/02 5:00 pm |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 16, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120794*

**Project:** 76th & Parnell

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| m,p-Cresol | ND | | 229 | 414 | µg/Kg-dry | 1 | 12/27/02 | 5:00 pm |
| N-Nitrosodi-n-propylamine | ND | | 101 | 207 | µg/Kg-dry | 1 | 12/27/02 | 5:00 pm |
| N-Nitrosodiphenylamine | ND | | 48.7 | 207 | µg/Kg-dry | 1 | 12/27/02 | 5:00 pm |
| Nitrobenzene | ND | | 133 | 207 | µg/Kg-dry | 1 | 12/27/02 | 5:00 pm |
| o-Cresol | ND | | 68.2 | 207 | µg/Kg-dry | 1 | 12/27/02 | 5:00 pm |
| Pentachlorophenol | ND UJ/S | | 37.2 | 207 | µg/Kg-dry | 1 | 12/27/02 | 5:00 pm |
| Phenol | ND | | 47.5 | 207 | µg/Kg-dry | 1 | 12/27/02 | 5:00 pm |
| Surr: 2,4,6-Tribromophenol | 66.0 | | 0 | 20-117 | %REC | 1 | 12/27/02 | 5:00 pm |
| Surr: 2-Fluorobiphenyl | 52.6 | | 0 | 47-128 | %REC | 1 | 12/27/02 | 5:00 pm |
| Surr: 2-Fluorophenol | 50.4 | | 0 | 41-108 | %REC | 1 | 12/27/02 | 5:00 pm |
| Surr: 4-Terphenyl-d14 | 103 | Q | 0 | 5-131 | %REC | 1 | 12/27/02 | 5:00 pm |
| Surr: Nitrobenzene-d5 | 47.3 | | 0 | 32-120 | %REC | 1 | 12/27/02 | 5:00 pm |
| Surr: Phenol-d5 | 47.5 | S | 0 | 52-116 | %REC | 1 | 12/27/02 | 5:00 pm |

**SEMIVOLATILE ORGANICS, BY GCMS SIM** Method: SW8270C Analyst: DH TB 1/29/03

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Acenaphthylene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Anthracene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Benzo(a)anthracene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Benzo(a)pyrene | ND | Q | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Benzo(b)fluoranthene | ND | Q | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Benzo(g,h,i)perylene | ND | Q | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Benzo(k)fluoranthene | ND | Q | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Chrysene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Dibenzo(a,h)anthracene | ND | Q | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Fluoranthene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Fluorene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Hexachlorobenzene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Indeno(1,2,3-cd)pyrene | ND | Q | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Naphthalene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Phenanthrene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Pyrene | ND | | 49.6 | 149 | µg/Kg-dry | 1 | 12/27/02 | 1:27 am |
| Surr: 2-Fluorobiphenyl | 85.6 | | 0 | 70-130 | %REC | 1 | 12/27/02 | 1:27 am |
| Surr: 4-Terphenyl-d14 | 110 | | 0 | 70-130 | %REC | 1 | 12/27/02 | 1:27 am |
| Surr: Nitrobenzene-d5 | 93.7 | | 0 | 70-130 | %REC | 1 | 12/27/02 | 1:27 am |

**MERCURY BY CVAA** Method: SW7471A Analyst: DZ

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mercury | 0.024 | J | 0.0099 | 0.030 | mg/Kg-dry | 1 | 12/26/02 | 5:25 pm |

**PH (IN LABORATORY)** Method: SW9045C Analyst: JD

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| pH | 8.05 | | 0 | 0 | pH Units | 1 | 12/20/02 | 7:23 am |

**PERCENT MOISTURE** Method: D2216 Analyst: BE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 19.3 | | 0 | 0 | wt% | 1 | 12/24/02 | 12:30 pm |

**Qualifiers:**

ND - Not Detected at the Method Detection Limit
MDL-Contaminant
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

SUBURBAN LABORATORIES, Inc.
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

# PREP DATES REPORT

**CLIENT:** Weston Solutions, Inc.
**Project:** 76th & Parnell

**Lab Order:** *02120794*
**Date:** *Thursday, January 16, 2003*

| Lab Sample ID | Collection Date | Prep Method | Prep Name | Prep Date |
|---|---|---|---|---|
| 02120794-01A | 12/19/02 10:55 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-01B | 12/19/02 10:55 am | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 12:00 am |
| 02120794-02A | 12/19/02 10:58 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-02B | 12/19/02 10:58 am | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 12:00 am |
| 02120794-03A | 12/19/02 11:06 am | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 12:00 am |
| | 12/19/02 11:06 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-03C | 12/19/02 11:06 am | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/20/02 12:00 am |
| 02120794-04A | 12/19/02 11:11 am | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 12:00 am |
| | 12/19/02 11:11 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-04C | 12/19/02 11:11 am | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/20/02 12:00 am |
| 02120794-05A | 12/19/02 9:46 am | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 12:00 am |
| | 12/19/02 9:46 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-06A | 12/19/02 9:55 am | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 12:00 am |
| | 12/19/02 9:55 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-07A | 12/19/02 9:23 am | SW3550B | SOLID PREP SONICATION: BNA | 12/26/02 12:00 am |
| | 12/19/02 9:23 am | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 9:31 am |
| | 12/19/02 9:23 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-07C | 12/19/02 9:23 am | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/20/02 12:00 am |
| 02120794-08A | 12/19/02 9:25 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-08B | 12/19/02 9:25 am | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 12:00 am |
| | 12/19/02 9:25 am | SW3550B | SOLID PREP SONICATION: PCB | 12/27/02 9:09 am |
| | 12/19/02 9:25 am | SW3550B | SOLID PREP SONICATION: Pest | 12/27/02 9:09 am |
| 02120794-08C | 12/19/02 9:25 am | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/20/02 12:00 am |
| 02120794-09A | 12/19/02 10:33 am | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 12:00 am |
| | 12/19/02 10:33 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-10A | 12/19/02 10:32 am | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 12:00 am |
| | 12/19/02 10:32 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-11A | 12/19/02 9:58 am | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 12:00 am |
| | 12/19/02 9:58 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-11B | 12/19/02 9:58 am | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/20/02 12:00 am |
| 02120794-12A | 12/19/02 10:03 am | SW3550B | SOLID PREP SONICATION: BNA | 12/26/02 12:00 am |
| | 12/19/02 10:03 am | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 9:31 am |
| | 12/19/02 10:03 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-12B | 12/19/02 10:03 am | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/20/02 12:00 am |
| 02120794-13A | 12/19/02 8:35 am | SW3550B | SOLID PREP SONICATION: BNA | 12/26/02 12:00 am |
| | 12/19/02 8:35 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-14A | 12/19/02 8:41 am | SW3550B | SOLID PREP SONICATION: BNA | 12/26/02 12:00 am |
| | 12/19/02 8:41 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-15A | 12/19/02 8:05 am | SW3550B | SOLID PREP SONICATION: BNA | 12/26/02 12:00 am |
| | 12/19/02 8:05 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-15B | 12/19/02 8:05 am | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/20/02 12:00 am |
| 02120794-16A | 12/19/02 8:05 am | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/20/02 12:00 am |
| 02120794-17A | 12/19/02 8:07 am | SW3550B | SOLID PREP SONICATION: BNA | 12/26/02 12:00 am |
| | 12/19/02 8:07 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-17B | 12/19/02 8:07 am | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/20/02 12:00 am |
| 02120794-18A | 12/19/02 8:07 am | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/20/02 12:00 am |
| 02120794-19A | 12/19/02 10:16 am | SW3550B | SOLID PREP SONICATION: BNA | 12/26/02 12:00 am |
| | 12/19/02 10:16 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-20A | 12/19/02 10:16 am | SW3550B | SOLID PREP SONICATION: BNA | 12/26/02 12:00 am |
| 02120794-21A | 12/19/02 10:19 am | SW3550B | SOLID PREP SONICATION: BNA | 12/26/02 12:00 am |

# SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

# PREP DATES REPORT

**CLIENT:** Weston Solutions, Inc.

**Project:** 76th & Parnell

**Lab Order:** *02120794*

**Date:** *Thursday, January 16, 2003*

| Lab Sample ID | Collection Date | Prep Method | Prep Name | Prep Date |
|---|---|---|---|---|
| 02120794-21A | 12/19/02 10:19 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-22A | 12/19/02 10:19 am | SW3550B | SOLID PREP SONICATION: BNA | 12/26/02 12:00 am |
| 02120794-23A | 12/19/02 7:30 am | SW3020A | AQUEOUS PREP TOTAL METALS: GFAA | 12/26/02 1:15 pm |
| | 12/19/02 7:30 am | SW1311 | TCLP SAMPLE PREP (Metals) | 12/23/02 4:39 am |
| 02120794-23B | 12/19/02 7:30 am | SW3550B | SOLID PREP SONICATION: BNA | 12/26/02 12:00 am |
| | 12/19/02 7:30 am | SW3550B | SOLID PREP SONICATION: PCB | 12/27/02 9:09 am |
| | 12/19/02 7:30 am | SW3550B | SOLID PREP SONICATION: Pest | 12/27/02 9:09 am |
| | 12/19/02 7:30 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-23C | 12/19/02 7:30 am | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/20/02 12:00 am |
| 02120794-24A | 12/19/02 7:30 am | SW3020A | AQUEOUS PREP TOTAL METALS: GFAA | 12/26/02 1:15 pm |
| | 12/19/02 7:30 am | SW1311 | TCLP SAMPLE PREP (Metals) | 12/23/02 4:39 am |
| 02120794-25A | 12/19/02 7:37 am | SW3550B | SOLID PREP SONICATION: BNA | 12/24/02 9:31 am |
| | 12/19/02 7:37 am | SW3550B | SOLID PREP SONICATION: BNA | 12/26/02 12:00 am |
| | 12/19/02 7:37 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/20/02 8:25 am |
| 02120794-25B | 12/19/02 7:37 am | SW5035 | CLOSED SYSTEM P&T VOC Prep | 12/20/02 12:00 am |

Suburban Laboratories, Inc.

**Date:** *16-Jan-03*

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Method Blank

Sample ID: **MB-7652** Batch ID: **7652** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/26/02 5:32:09 PM** Prep Date: **12/20/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340720**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | ND | 0.75 | | | | | | | | | |
| Cadmium | ND | 0.225 | | | | | | | | | |
| Chromium | ND | 0.75 | | | | | | | | | |
| Lead | ND | 1.5 | | | | | | | | | |
| Nickel | ND | 0.375 | | | | | | | | | |
| Selenium | 1.155 | 1.5 | | | | | | | | | J |
| Silver | ND | 0.225 | | | | | | | | | |

Sample ID: **MB-7652** Batch ID: **7652** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/27/02 9:14:31 AM** Prep Date: **12/20/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **341136**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 1.5 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Method Blank

Sample ID: **MB-7701** Batch ID: **7701** Test Code: **SW8081A** Units: **µg/Kg** Analysis Date **12/27/02 9:48:00 PM** Prep Date: **12/27/02**
Client ID: Run ID: **GC_HP_3_021227B** SeqNo: **341549**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4-DDD | ND | 6 | | | | | | | | | |
| 4,4-DDE | ND | 12 | | | | | | | | | |
| 4,4-DDT | ND | 6 | | | | | | | | | |
| Aldrin | ND | 12 | | | | | | | | | |
| alpha-BHC | ND | 12 | | | | | | | | | |
| alpha-Chlordane | ND | 9 | | | | | | | | | |
| beta-BHC | ND | 18 | | | | | | | | | |
| Chlordane | ND | 300 | | | | | | | | | |
| delta-BHC | ND | 6 | | | | | | | | | |
| Dieldrin | ND | 36 | | | | | | | | | |
| Endosulfan I | ND | 12 | | | | | | | | | |
| Endosulfan II | ND | 9 | | | | | | | | | |
| Endosulfan sulfate | ND | 12 | | | | | | | | | |
| Endrin | ND | 12 | | | | | | | | | |
| Endrin aldehyde | ND | 66 | | | | | | | | | |
| Endrin ketone | ND | 6 | | | | | | | | | |
| gamma-BHC | ND | 6 | | | | | | | | | |
| gamma-Chlordane | ND | 12 | | | | | | | | | |
| Heptachlor | ND | 3 | | | | | | | | | |
| Heptachlor epoxide | ND | 18 | | | | | | | | | |
| Methoxychlor | ND | 78 | | | | | | | | | |
| Parathion | ND | 57 | | | | | | | | | |
| Toxaphene | ND | 600 | | | | | | | | | |
| Surr: Tetrachloro-m-xylene | 136.3 | 0 | 160 | 0 | 85.2 | 33.7 | 156 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Method Blank

Sample ID: **MB-7700** Batch ID: **7700** Test Code: **SW8082** Units: **µg/Kg** Analysis Date **12/27/02 9:48:00 PM** Prep Date: **12/27/02**
Client ID: Run ID: **GC_HP_3_021227B** SeqNo: **341550**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1016 | ND | 300 | | | | | | | | | |
| Aroclor 1221 | ND | 300 | | | | | | | | | |
| Aroclor 1232 | ND | 300 | | | | | | | | | |
| Aroclor 1242 | ND | 300 | | | | | | | | | |
| Aroclor 1248 | ND | 300 | | | | | | | | | |
| Aroclor 1254 | ND | 300 | | | | | | | | | |
| Aroclor 1260 | ND | 300 | | | | | | | | | |
| Surr: Tetrachloro-m-xylene | 167.3 | 0 | 160 | 0 | 105 | 33.7 | 156 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Method Blank

Sample ID: **BLANK** Batch ID: **R22106** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/27/02 1:48:00 PM** Prep Date:

Client ID: Run ID: **GCMS5_021227A** SeqNo: **341392**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 0.893 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.666 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.992 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.08 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.719 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 1.54 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 1.68 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 2.35 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.725 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 2.92 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.33 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 3.01 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 0.99 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.903 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.876 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 1.35 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.76 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.912 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.916 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.06 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 1.05 | | | | | | | | | |
| 2-Butanone | ND | 4.53 | | | | | | | | | |
| 2-Chloroethyl vinyl ether | ND | 1.34 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.711 | | | | | | | | | |
| 2-Hexanone | ND | 2.24 | | | | | | | | | |
| 4-Chlorotoluene | ND | 1.04 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 1.43 | | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 1.83 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Method Blank

| | | |
|---|---|---|
| Acetone | ND | 8.88 |
| Acrolein | ND | 5.13 |
| Acrylonitrile | ND | 3.09 |
| Allyl Chloride | ND | 2.1 |
| Benzene | ND | 0.95 |
| Bromobenzene | ND | 1.31 |
| Bromochloromethane | ND | 0.996 |
| Bromodichloromethane | ND | 0.607 |
| Bromoform | ND | 1.5 |
| Bromomethane | ND | 7.34 |
| Carbon disulfide | ND | 1.2 |
| Carbon tetrachloride | ND | 1.15 |
| Chlorobenzene | ND | 1.08 |
| Chloroethane | ND | 12.1 |
| Chloroform | ND | 0.67 |
| Chloromethane | ND | 3.29 |
| cis-1,2-Dichloroethene | ND | 0.86 |
| cis-1,3-Dichloropropene | ND | 0.874 |
| Dibromochloromethane | ND | 1.03 |
| Dibromomethane | ND | 1.26 |
| Dichlorodifluoromethane | ND | 2.02 |
| Ethyl methacrylate | ND | 1.23 |
| Ethylbenzene | ND | 1.13 |
| Hexachlorobutadiene | ND | 1.92 |
| Hexachloroethane | ND | 0.819 |
| Iodomethane | ND | 3.09 |
| Isopropylbenzene | ND | 0.61 |
| m,p-Xylene | ND | 2.56 |
| Methyl acrylate | ND | 1.2 |
| Methyl acrylonitrile | ND | 1.85 |
| Methyl methacrylate | ND | 2.58 |
| Methyl tert-butyl ether | ND | 0.786 |
| Methylene chloride | ND | 1.18 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Method Blank

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | ND | 1.17 | | | | | | |
| n-Propylbenzene | ND | 0.999 | | | | | | |
| Naphthalene | ND | 1.14 | | | | | | |
| o-Xylene | ND | 1.64 | | | | | | |
| Pentachloroethane | ND | 2.06 | | | | | | |
| sec-Butylbenzene | ND | 0.655 | | | | | | |
| Styrene | ND | 1.02 | | | | | | |
| tert-Butylbenzene | ND | 0.758 | | | | | | |
| Tetrachloroethene | ND | 2.41 | | | | | | |
| Tetrahydrofuran | ND | 2.5 | | | | | | |
| Toluene | ND | 1.15 | | | | | | |
| trans-1,2-Dichloroethene | ND | 1.63 | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.05 | | | | | | |
| Trichloroethene | ND | 1.55 | | | | | | |
| Trichlorofluoromethane | ND | 1.01 | | | | | | |
| Vinyl acetate | ND | 3 | | | | | | |
| Vinyl chloride | ND | 1.27 | | | | | | |
| Surr: 4-Bromofluorobenzene | 46.62 | 0 | 50 | 0 | 93.2 | 70 | 130 | 0 |
| Surr: Dibromofluoromethane | 49.69 | 0 | 50 | 0 | 99.4 | 70 | 130 | 0 |
| Surr: Toluene-d8 | 51.37 | 0 | 50 | 0 | 103 | 70 | 130 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Method Blank

Sample ID: **BLANK** Batch ID: **R22153** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/28/02 2:45:00 PM** Prep Date:

Client ID: Run ID: **GCMS5_021228A** SeqNo: **342090**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 0.893 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.666 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.992 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 2.08 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.719 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 1.54 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 1.68 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 2.35 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.725 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 2.92 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.33 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 3.01 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 0.99 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.903 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.876 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 1.35 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.76 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.912 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.916 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.06 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 1.05 | | | | | | | | | |
| 2-Butanone | ND | 4.53 | | | | | | | | | |
| 2-Chloroethyl vinyl ether | ND | 1.34 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.711 | | | | | | | | | |
| 2-Hexanone | ND | 2.24 | | | | | | | | | |
| 4-Chlorotoluene | ND | 1.04 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 1.43 | | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 1.83 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Method Blank

| | | |
|---|---|---|
| Acetone | ND | 8.88 |
| Acrolein | ND | 5.13 |
| Acrylonitrile | ND | 3.09 |
| Allyl Chloride | ND | 2.1 |
| Benzene | ND | 0.95 |
| Bromobenzene | ND | 1.31 |
| Bromochloromethane | ND | 0.996 |
| Bromodichloromethane | ND | 0.607 |
| Bromoform | ND | 1.5 |
| Bromomethane | ND | 7.34 |
| Carbon disulfide | ND | 1.2 |
| Carbon tetrachloride | ND | 1.15 |
| Chlorobenzene | ND | 1.08 |
| Chloroethane | ND | 12.1 |
| Chloroform | ND | 0.67 |
| Chloromethane | ND | 3.29 |
| cis-1,2-Dichloroethene | ND | 0.86 |
| cis-1,3-Dichloropropene | ND | 0.874 |
| Dibromochloromethane | ND | 1.03 |
| Dibromomethane | ND | 1.26 |
| Dichlorodifluoromethane | ND | 2.02 |
| Ethyl methacrylate | ND | 1.23 |
| Ethylbenzene | ND | 1.13 |
| Hexachlorobutadiene | ND | 1.92 |
| Hexachloroethane | ND | 0.819 |
| Iodomethane | ND | 3.09 |
| Isopropylbenzene | ND | 0.61 |
| m,p-Xylene | ND | 2.56 |
| Methyl acrylate | ND | 1.2 |
| Methyl acrylonitrile | ND | 1.85 |
| Methyl methacrylate | ND | 2.58 |
| Methyl tert-butyl ether | ND | 0.786 |
| Methylene chloride | ND | 1.18 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

Method Blank

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | ND | 1.17 | | | | | | | |
| n-Propylbenzene | ND | 0.999 | | | | | | | |
| Naphthalene | 0.86 | 1.14 | | | | | | | J |
| o-Xylene | ND | 1.64 | | | | | | | |
| Pentachloroethane | ND | 2.06 | | | | | | | |
| sec-Butylbenzene | ND | 0.655 | | | | | | | |
| Styrene | ND | 1.02 | | | | | | | |
| tert-Butylbenzene | ND | 0.758 | | | | | | | |
| Tetrachloroethene | ND | 2.41 | | | | | | | |
| Tetrahydrofuran | ND | 2.5 | | | | | | | |
| Toluene | ND | 1.15 | | | | | | | |
| trans-1,2-Dichloroethene | ND | 1.63 | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.05 | | | | | | | |
| Trichloroethene | ND | 1.55 | | | | | | | |
| Trichlorofluoromethane | ND | 1.01 | | | | | | | |
| Vinyl acetate | ND | 3 | | | | | | | |
| Vinyl chloride | ND | 1.27 | | | | | | | |
| Surr: 4-Bromofluorobenzene | 49 | 0 | 50 | 0 | 98 | 70 | 130 | 0 | |
| Surr: Dibromofluoromethane | 53.23 | 0 | 50 | 0 | 106 | 70 | 130 | 0 | |
| Surr: Toluene-d8 | 50.49 | 0 | 50 | 0 | 101 | 70 | 130 | 0 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Method Blank

Sample ID: **MEOH BLANK** Batch ID: **R22156** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/27/02 5:54:00 PM** Prep Date:

Client ID: Run ID: **GCMS4_021227A** SeqNo: **342139**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 44.6 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 33.3 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 49.6 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 104 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 35.9 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 77 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 84 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 118 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 36.2 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 146 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 66.5 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 150 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 49.5 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 45.2 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 43.8 | | | | | | | | | |
| 1,2-Dichloropropane | ND | 67.5 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 38 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 45.6 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 45.8 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 53 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 52.5 | | | | | | | | | |
| 2-Butanone | ND | 226 | | | | | | | | | |
| 2-Chloroethyl vinyl ether | ND | 67 | | | | | | | | | |
| 2-Chlorotoluene | ND | 35.6 | | | | | | | | | |
| 2-Hexanone | ND | 112 | | | | | | | | | |
| 4-Chlorotoluene | ND | 52 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 71.5 | | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 91.5 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Method Blank

| | | | |
|---|---|---|---|
| Acetone | ND | 444 | |
| Acrolein | ND | 256 | |
| Acrylonitrile | ND | 154 | |
| Allyl Chloride | ND | 105 | |
| Benzene | ND | 47.5 | |
| Bromobenzene | ND | 65.5 | |
| Bromochloromethane | ND | 49.8 | |
| Bromodichloromethane | ND | 30.4 | |
| Bromoform | ND | 75 | |
| Bromomethane | ND | 367 | |
| Carbon disulfide | ND | 60 | |
| Carbon tetrachloride | ND | 57.5 | |
| Chlorobenzene | ND | 54 | |
| Chloroethane | ND | 605 | |
| Chloroform | ND | 33.5 | |
| Chloromethane | ND | 164 | |
| cis-1,2-Dichloroethene | ND | 43 | |
| cis-1,3-Dichloropropene | ND | 43.7 | |
| Dibromochloromethane | ND | 51.5 | |
| Dibromomethane | ND | 63 | |
| Dichlorodifluoromethane | ND | 101 | |
| Ethyl methacrylate | ND | 61.5 | |
| Ethylbenzene | ND | 56.5 | |
| Hexachlorobutadiene | 34 | 96 | J |
| Hexachloroethane | ND | 40.9 | |
| Iodomethane | ND | 154 | |
| Isopropylbenzene | ND | 30.5 | |
| m,p-Xylene | ND | 128 | |
| Methyl acrylate | ND | 60 | |
| Methyl acrylonitrile | ND | 92.5 | |
| Methyl methacrylate | ND | 129 | |
| Methyl tert-butyl ether | ND | 39.3 | |
| Methylene chloride | ND | 59 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Method Blank

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | ND | 58.5 | | | | | | |
| n-Propylbenzene | ND | 50 | | | | | | |
| Naphthalene | ND | 57 | | | | | | |
| o-Xylene | ND | 82 | | | | | | |
| Pentachloroethane | ND | 103 | | | | | | |
| sec-Butylbenzene | ND | 32.8 | | | | | | |
| Styrene | ND | 51 | | | | | | |
| tert-Butylbenzene | ND | 37.9 | | | | | | |
| Tetrachloroethene | ND | 120 | | | | | | |
| Tetrahydrofuran | ND | 125 | | | | | | |
| Toluene | ND | 57.5 | | | | | | |
| trans-1,2-Dichloroethene | ND | 81.5 | | | | | | |
| trans-1,3-Dichloropropene | ND | 52.5 | | | | | | |
| Trichloroethene | ND | 77.5 | | | | | | |
| Trichlorofluoromethane | ND | 50.5 | | | | | | |
| Vinyl acetate | ND | 150 | | | | | | |
| Vinyl chloride | ND | 63.5 | | | | | | |
| Surr: 4-Bromofluorobenzene | 2520 | 0 | 2500 | 0 | 101 | 70 | 130 | 0 |
| Surr: Dibromofluoromethane | 2397 | 0 | 2500 | 0 | 95.9 | 70 | 130 | 0 |
| Surr: Toluene-d8 | 2459 | 0 | 2500 | 0 | 98.4 | 70 | 130 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Method Blank

Sample ID: **MB-7695** Batch ID: **7695** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/27/02 2:28:00 PM** Prep Date: **12/24/02**
Client ID: Run ID: **SV_1_021227A** SeqNo: **341347**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 256 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 471 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 243 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 221 | | | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 181 | | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 190 | | | | | | | | | |
| 2,4-Dichlorophenol | ND | 193 | | | | | | | | | |
| 2,4-Dimethylphenol | ND | 222 | | | | | | | | | |
| 2,4-Dinitrophenol | ND | 152 | | | | | | | | | |
| 2,4-Dinitrotoluene | ND | 108 | | | | | | | | | |
| 2,6-Dinitrotoluene | ND | 211 | | | | | | | | | |
| 2-Chloronaphthalene | ND | 142 | | | | | | | | | |
| 2-Chlorophenol | ND | 495 | | | | | | | | | |
| 2-Methylnaphthalene | ND | 189 | | | | | | | | | |
| 2-Nitroaniline | ND | 95.1 | | | | | | | | | |
| 2-Nitrophenol | ND | 128 | | | | | | | | | |
| 3,3-Dichlorobenzidine | ND | 176 | | | | | | | | | |
| 3-Nitroaniline | ND | 118 | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 107 | | | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 74.4 | | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 277 | | | | | | | | | |
| 4-Chloroaniline | ND | 106 | | | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 82.8 | | | | | | | | | |
| 4-Nitroaniline | ND | 149 | | | | | | | | | |
| 4-Nitrophenol | ND | 108 | | | | | | | | | |
| Acenaphthene | ND | 121 | | | | | | | | | |
| Acenaphthylene | ND | 162 | | | | | | | | | |
| Anthracene | ND | 142 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Method Blank

| | | |
|---|---|---|
| Azobenzene | ND | 101 |
| Benzidine | ND | 138 |
| Benzo(a)anthracene | ND | 157 |
| Benzo(a)pyrene | ND | 153 |
| Benzo(b)fluoranthene | ND | 137 |
| Benzo(g,h,i)perylene | ND | 207 |
| Benzo(k)fluoranthene | ND | 136 |
| Benzoic acid | ND | 136 |
| Benzyl alcohol | ND | 147 |
| Bis(2-chloroethoxy)methane | ND | 239 |
| Bis(2-chloroethyl)ether | ND | 429 |
| Bis(2-chloroisopropyl)ether | ND | 429 |
| Bis(2-ethylhexyl)phthalate | ND | 753 |
| Butyl benzyl phthalate | ND | 215 |
| Carbazole | ND | 1980 |
| Chrysene | ND | 199 |
| Di-n-butyl phthalate | ND | 241 |
| Di-n-octyl phthalate | ND | 136 |
| Dibenzo(a,h)anthracene | ND | 247 |
| Dibenzofuran | ND | 93 |
| Diethyl phthalate | ND | 113 |
| Dimethyl phthalate | ND | 151 |
| Fluoranthene | ND | 173 |
| Fluorene | ND | 148 |
| Hexachlorobenzene | ND | 107 |
| Hexachlorobutadiene | ND | 273 |
| Hexachlorocyclopentadiene | ND | 248 |
| Hexachloroethane | ND | 291 |
| Indeno(1,2,3-cd)pyrene | ND | 200 |
| Isophorone | ND | 128 |
| *m,p*-Cresol | ND | 555 |
| N-Nitrosodi-n-propylamine | ND | 245 |
| N-Nitrosodimethylamine | ND | 130 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

Method Blank

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| N-Nitrosodiphenylamine | ND | 118 | | | | | | |
| Naphthalene | ND | 411 | | | | | | |
| Nitrobenzene | ND | 321 | | | | | | |
| o-Cresol | ND | 165 | | | | | | |
| Pentachlorophenol | ND | 109 | | | | | | |
| Phenanthrene | ND | 134 | | | | | | |
| Phenol | ND | 115 | | | | | | |
| Pyrene | ND | 124 | | | | | | |
| Pyridine | ND | 246 | | | | | | |
| Surr: 2,4,6-Tribromophenol | 2318 | 0 | 3333 | 0 | 69.5 | 20 | 117 | 0 |
| Surr: 2-Fluorobiphenyl | 2497 | 0 | 3333 | 0 | 74.9 | 47 | 128 | 0 |
| Surr: 2-Fluorophenol | 2306 | 0 | 3333 | 0 | 69.2 | 41 | 108 | 0 |
| Surr: 4-Terphenyl-d14 | 1878 | 0 | 3333 | 0 | 56.3 | 5 | 131 | 0 |
| Surr: Nitrobenzene-d5 | 2379 | 0 | 3333 | 0 | 71.4 | 32 | 120 | 0 |
| Surr: Phenol-d5 | 2386 | 0 | 3333 | 0 | 71.6 | 52 | 116 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Method Blank

Sample ID: **MB-7692** Batch ID: **7692** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/24/02 12:55:00 PM** Prep Date: **12/24/02**
Client ID: Run ID: **SV_3_021224A** SeqNo: **340834**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 120 | | | | | | | | | |
| Acenaphthylene | ND | 120 | | | | | | | | | |
| Anthracene | ND | 120 | | | | | | | | | |
| Benzo(a)anthracene | ND | 120 | | | | | | | | | |
| Benzo(a)pyrene | ND | 120 | | | | | | | | | Q |
| Benzo(b)fluoranthene | ND | 120 | | | | | | | | | Q |
| Benzo(g,h,i)perylene | ND | 120 | | | | | | | | | Q |
| Benzo(k)fluoranthene | ND | 120 | | | | | | | | | Q |
| Chrysene | ND | 120 | | | | | | | | | |
| Dibenzo(a,h)anthracene | ND | 120 | | | | | | | | | Q |
| Fluoranthene | ND | 120 | | | | | | | | | |
| Fluorene | ND | 120 | | | | | | | | | |
| Hexachlorobenzene | ND | 120 | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 120 | | | | | | | | | Q |
| Naphthalene | ND | 120 | | | | | | | | | |
| Phenanthrene | ND | 120 | | | | | | | | | |
| Pyrene | ND | 120 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | 2001 | 0 | 2000 | 0 | 100 | 70 | 130 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 1813 | 0 | 2000 | 0 | 90.6 | 70 | 130 | 0 | | | |
| Surr: Nitrobenzene-d5 | 1966 | 0 | 2000 | 0 | 98.3 | 70 | 130 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Method Blank

Sample ID: **MB-7694** Batch ID: **7694** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/26/02 6:55:00 PM** Prep Date: **12/26/02**
Client ID: Run ID: **SV_3_021226A** SeqNo: **341344**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 120 | | | | | | | | | |
| Acenaphthylene | ND | 120 | | | | | | | | | |
| Anthracene | ND | 120 | | | | | | | | | |
| Benzo(a)anthracene | ND | 120 | | | | | | | | | |
| Benzo(a)pyrene | ND | 120 | | | | | | | | | |
| Benzo(b)fluoranthene | ND | 120 | | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 120 | | | | | | | | | |
| Benzo(k)fluoranthene | ND | 120 | | | | | | | | | |
| Chrysene | ND | 120 | | | | | | | | | |
| Dibenzo(a,h)anthracene | ND | 120 | | | | | | | | | |
| Fluoranthene | ND | 120 | | | | | | | | | |
| Fluorene | ND | 120 | | | | | | | | | |
| Hexachlorobenzene | ND | 120 | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 120 | | | | | | | | | |
| Naphthalene | ND | 120 | | | | | | | | | |
| Phenanthrene | ND | 120 | | | | | | | | | |
| Pyrene | ND | 120 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | 1934 | 0 | 2000 | 0 | 96.7 | 70 | 130 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 2154 | 0 | 2000 | 0 | 108 | 70 | 130 | 0 | | | |
| Surr: Nitrobenzene-d5 | 1960 | 0 | 2000 | 0 | 98 | 70 | 130 | 0 | | | |

Sample ID: **LMB** Batch ID: **7688** Test Code: **SW1311/7421** Units: **mg/L** Analysis Date **12/26/02 6:05:00 PM** Prep Date: **12/26/02**
Client ID: Run ID: **GFAA1_021226A** SeqNo: **340652**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | 0.006 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Sample Duplicate

Sample ID: **02120794-25ADU** Batch ID: **R21960** Test Code: **SW9045C** Units: **pH units** Analysis Date **12/20/02 7:23:00 AM** Prep Date:
Client ID: **SB-118 (7-11)** Run ID: **ORION PH_021220A** SeqNo: **337940**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH | 8.07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

Sample ID: **02120794-10ADU** Batch ID: **R21960** Test Code: **SW9045C** Units: **pH Units** Analysis Date **12/20/02 7:23:00 AM** Prep Date:
Client ID: **SB-113 (7-11)** Run ID: **ORION PH_021220A** SeqNo: **337941**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH | 7.55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

Sample ID: **02120557-01A DU** Batch ID: **R21991** Test Code: **D2216** Units: **wt%** Analysis Date **12/20/02 11:40:00 AM** Prep Date:
Client ID: Run ID: **BALANCE 1_021220D** SeqNo: **339142**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 21.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

Sample ID: **02120730-11A DU** Batch ID: **R22050** Test Code: **D2216** Units: **wt%** Analysis Date **12/24/02 12:30:00 PM** Prep Date:
Client ID: Run ID: **BALANCE 1_021224C** SeqNo: **340230**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 8.943 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

Sample ID: **02120794-20A DU** Batch ID: **R22081** Test Code: **D2216** Units: **wt%** Analysis Date **12/26/02 3:50:00 PM** Prep Date:
Client ID: **SB-117 (0-3) Dup** Run ID: **BALANCE 1_021226B** SeqNo: **340795**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 3.265 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

Suburban Laboratories, Inc.

**Date:** *16-Jan-03*

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Sample Matrix Spike

Sample ID: **02120794-01Ams** Batch ID: **7652** Test Code: **SW6010B** Units: **mg/Kg-dry** Analysis Date **12/26/02 5:58:16 PM** Prep Date: **12/20/02**
Client ID: **SB-109 (0-3)** Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340723**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | 27.77 | 0.792 | 26.39 | 4.392 | 88.6 | 70 | 130 | 0 | | | |
| Cadmium | 23.14 | 0.238 | 26.39 | 0 | 87.7 | 70 | 130 | 0 | | | |
| Chromium | 26.25 | 0.792 | 26.39 | 1.672 | 93.1 | 70 | 130 | 0 | | | |
| Lead | 26.78 | 1.58 | 26.39 | 10.21 | 62.8 | 70 | 130 | 0 | | | S |
| Nickel | 25.77 | 0.396 | 26.39 | 1.63 | 91.5 | 70 | 130 | 0 | | | |
| Selenium | 18.6 | 1.58 | 26.39 | 0 | 70.5 | 70 | 130 | 0 | | | |
| Silver | 2.975 | 0.238 | 26.39 | 0 | 11.3 | 70 | 130 | 0 | | | S |

Sample ID: **02120794-01AMS** Batch ID: **7652** Test Code: **SW6010B** Units: **mg/Kg-dry** Analysis Date **12/26/02 6:07:01 PM** Prep Date: **12/20/02**
Client ID: **SB-109 (0-3)** Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340724**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | 30.49 | 0.792 | 26.39 | 4.392 | 98.9 | 70 | 130 | 27.77 | 9.33 | 20 | |
| Cadmium | 25.05 | 0.238 | 26.39 | 0 | 94.9 | 70 | 130 | 23.14 | 7.94 | 20 | |
| Chromium | 27.78 | 0.792 | 26.39 | 1.672 | 98.9 | 70 | 130 | 26.25 | 5.65 | 20 | |
| Lead | 29.53 | 1.58 | 26.39 | 10.21 | 73.2 | 70 | 130 | 26.78 | 9.78 | 20 | |
| Nickel | 26.72 | 0.396 | 26.39 | 1.63 | 95.1 | 70 | 130 | 25.77 | 3.64 | 20 | |
| Selenium | 18.82 | 1.58 | 26.39 | 0 | 71.3 | 70 | 130 | 18.6 | 1.15 | 20 | |
| Silver | 2.091 | 0.238 | 26.39 | 0 | 7.92 | 70 | 130 | 2.975 | 34.9 | 20 | SR |

Sample ID: **02120794-01Ams** Batch ID: **7652** Test Code: **SW6010B** Units: **mg/Kg-dry** Analysis Date **12/27/02 9:25:37 AM** Prep Date: **12/20/02**
Client ID: **SB-109 (0-3)** Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **341139**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 23.09 | 1.58 | 26.39 | 0 | 87.5 | 70 | 130 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Sample Matrix Spike Duplicate

Sample ID: **02120794-01Amss** Batch ID: **7652** Test Code: **SW6010B** Units: **mg/Kg-dry** Analysis Date **12/27/02 9:30:15 AM** Prep Date: **12/20/02**
Client ID: **SB-109 (0-3)** Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **341140**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 22.17 | 1.58 | 26.39 | 0 | 84 | 70 | 130 | 23.09 | 4.05 | 20 | |

Sample ID: **02120794-09A** Batch ID: **7692** Test Code: **SW8270C** Units: **µg/Kg-dry** Analysis Date **12/27/02 5:32:00 PM** Prep Date: **12/24/02**
Client ID: **SB-113 (0-3)** Run ID: **SV_3_021227A** SeqNo: **341625**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 951.1 | 127 | 1057 | 0 | 90 | 70 | 130 | 0 | | | |
| Acenaphthylene | 1039 | 127 | 1057 | 0 | 98.3 | 70 | 130 | 0 | | | |
| Anthracene | 930.3 | 127 | 1057 | 0 | 88 | 70 | 130 | 0 | | | |
| Benzo(a)anthracene | 1156 | 127 | 1057 | 105.6 | 99.4 | 70 | 130 | 0 | | | |
| Benzo(a)pyrene | 927.5 | 127 | 1057 | 73.37 | 80.8 | 70 | 130 | 0 | | | |
| Benzo(b)fluoranthene | 1151 | 127 | 1057 | 156.7 | 94.1 | 70 | 130 | 0 | | | |
| Benzo(g,h,i)perylene | 829 | 127 | 1057 | 0 | 78.4 | 70 | 130 | 0 | | | |
| Benzo(k)fluoranthene | 920.6 | 127 | 1057 | 49.65 | 82.4 | 70 | 130 | 0 | | | |
| Chrysene | 980.1 | 127 | 1057 | 98.78 | 83.4 | 70 | 130 | 0 | | | |
| Dibenzo(a,h)anthracene | 679.2 | 127 | 1057 | 0 | 64.2 | 70 | 130 | 0 | | | S |
| Fluoranthene | 1386 | 127 | 1057 | 123.4 | 119 | 70 | 130 | 0 | | | |
| Fluorene | 947.3 | 127 | 1057 | 0 | 89.6 | 70 | 130 | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 771.4 | 127 | 1057 | 0 | 73 | 70 | 130 | 0 | | | |
| Naphthalene | 922.3 | 127 | 1057 | 87.92 | 78.9 | 70 | 130 | 0 | | | |
| Phenanthrene | 1167 | 127 | 1057 | 0 | 110 | 70 | 130 | 0 | | | |
| Pyrene | 1338 | 127 | 1057 | 119 | 115 | 70 | 130 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 1860 | 0 | 2114 | 0 | 88 | 70 | 130 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 1711 | 0 | 2114 | 0 | 80.9 | 70 | 130 | 0 | | | |
| Surr: Nitrobenzene-d5 | 1953 | 0 | 2114 | 0 | 92.4 | 70 | 130 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Sample Matrix Spike Duplicate

Sample ID: **02120794-09A** Batch ID: **7692** Test Code: **SW8270C** Units: **µg/Kg-dry** Analysis Date **12/27/02 6:03:00 PM** Prep Date: **12/24/02**
Client ID: **SB-113 (0-3)** Run ID: **SV_3_021227A** SeqNo: **341626**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 906.6 | 127 | 1057 | 0 | 85.8 | 70 | 130 | 951.1 | 4.79 | 30 | |
| Acenaphthylene | 961.1 | 127 | 1057 | 0 | 90.9 | 70 | 130 | 1039 | 7.79 | 30 | |
| Anthracene | 898.4 | 127 | 1057 | 0 | 85 | 70 | 130 | 930.3 | 3.5 | 30 | |
| Benzo(a)anthracene | 1109 | 127 | 1057 | 105.6 | 94.9 | 70 | 130 | 1156 | 4.18 | 30 | |
| Benzo(a)pyrene | 861.8 | 127 | 1057 | 73.37 | 74.6 | 70 | 130 | 927.5 | 7.35 | 30 | |
| Benzo(b)fluoranthene | 1109 | 127 | 1057 | 156.7 | 90.1 | 70 | 130 | 1151 | 3.7 | 30 | |
| Benzo(g,h,i)perylene | 785.2 | 127 | 1057 | 0 | 74.3 | 70 | 130 | 829 | 5.42 | 30 | |
| Benzo(k)fluoranthene | 851.5 | 127 | 1057 | 49.65 | 75.8 | 70 | 130 | 920.6 | 7.8 | 30 | |
| Chrysene | 928.6 | 127 | 1057 | 98.78 | 78.5 | 70 | 130 | 980.1 | 5.4 | 30 | |
| Dibenzo(a,h)anthracene | 657.9 | 127 | 1057 | 0 | 62.2 | 70 | 130 | 679.2 | 3.18 | 30 | S |
| Fluoranthene | 1342 | 127 | 1057 | 123.4 | 115 | 70 | 130 | 1386 | 3.2 | 30 | |
| Fluorene | 924.9 | 127 | 1057 | 0 | 87.5 | 70 | 130 | 947.3 | 2.39 | 30 | |
| Indeno(1,2,3-cd)pyrene | 739 | 127 | 1057 | 0 | 69.9 | 70 | 130 | 771.4 | 4.29 | 30 | S |
| Naphthalene | 892.7 | 127 | 1057 | 87.92 | 76.1 | 70 | 130 | 922.3 | 3.26 | 30 | |
| Phenanthrene | 1089 | 127 | 1057 | 0 | 103 | 70 | 130 | 1167 | 6.91 | 30 | |
| Pyrene | 1259 | 127 | 1057 | 119 | 108 | 70 | 130 | 1338 | 6.09 | 30 | |
| Surr: 2-Fluorobiphenyl | 1831 | 0 | 2114 | 0 | 86.6 | 70 | 130 | 1860 | 0 | 0 | |
| Surr: 4-Terphenyl-d14 | 1539 | 0 | 2114 | 0 | 72.8 | 70 | 130 | 1711 | 0 | 0 | |
| Surr: Nitrobenzene-d5 | 1910 | 0 | 2114 | 0 | 90.3 | 70 | 130 | 1953 | 0 | 0 | |

Sample ID: **02120730-23A MS** Batch ID: **R22078** Test Code: **SW7471A** Units: **mg/Kg-dry** Analysis Date **12/26/02 5:25:00 PM** Prep Date:
Client ID: Run ID: **CVAA1_021226A** SeqNo: **340694**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.04692 | 0.0301 | 0.07519 | 0.01085 | 48 | 60.7 | 138 | 0 | | | S |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Sample Matrix Spike Duplicate

Sample ID: **02120730-23A MS** Batch ID: **R22078** Test Code: **SW7471A** Units: **mg/Kg-dry** Analysis Date **12/26/02 5:25:00 PM** Prep Date:
Client ID: Run ID: **CVAA1_021226A** SeqNo: **340695**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.04912 | 0.0301 | 0.07519 | 0.01085 | 50.9 | 60.7 | 138 | 0.04692 | 4.59 | 15.9 | S |

Sample ID: **02120794-23B MS** Batch ID: **R22078** Test Code: **SW7471A** Units: **mg/Kg-dry** Analysis Date **12/26/02 5:25:00 PM** Prep Date:
Client ID: **SB-118 (0-3)** Run ID: **CVAA1_021226A** SeqNo: **340717**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.2775 | 0.0283 | 0.1769 | 0.08467 | 100 | 60.7 | 138 | 0 | | | |

Sample ID: **02120794-23B MS** Batch ID: **R22078** Test Code: **SW7471A** Units: **mg/Kg-dry** Analysis Date **12/26/02 5:25:00 PM** Prep Date:
Client ID: **SB-118 (0-3)** Run ID: **CVAA1_021226A** SeqNo: **340718**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.293 | 0.0283 | 0.1769 | 0.08467 | 109 | 60.7 | 138 | 0.2354 | 5.42 | 15.9 | |

Sample ID: **02120730-02A MS** Batch ID: **R22078** Test Code: **SW7471A** Units: **mg/Kg-dry** Analysis Date **12/26/02 5:25:00 PM** Prep Date:
Client ID: Run ID: **CVAA1_021226A** SeqNo: **341362**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.2017 | 0.0294 | 0.3064 | 0 | 65.8 | 60.7 | 138 | 0 | | | |

Sample ID: **02120730-02A MS** Batch ID: **R22078** Test Code: **SW7471A** Units: **mg/Kg-dry** Analysis Date **12/26/02 5:25:00 PM** Prep Date:
Client ID: Run ID: **CVAA1_021226A** SeqNo: **341363**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.2109 | 0.0294 | 0.3064 | 0 | 68.8 | 60.7 | 138 | 0.1646 | 4.46 | 15.9 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Sample Matrix Spike

Sample ID: **02120730-07D MS** Batch ID: **7688** Test Code: **SW1311/7421** Units: **mg/L** Analysis Date **12/26/02 6:05:00 PM** Prep Date: **12/26/02**
Client ID: Run ID: **GFAA1_021226A** SeqNo: **340655**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.0447 | 0.006 | 0.03 | 0.0119 | 109 | 70 | 130 | 0 | | | |

Sample ID: **02120730-07D MS** Batch ID: **7688** Test Code: **SW1311/7421** Units: **mg/L** Analysis Date **12/26/02 6:05:00 PM** Prep Date: **12/26/02**
Client ID: Run ID: **GFAA1_021226A** SeqNo: **340656**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.0457 | 0.006 | 0.03 | 0.0119 | 113 | 70 | 130 | 0.0447 | 2.21 | 20 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

Sample ID: **LCS-7652** Batch ID: **7652** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/26/02 5:40:14 PM** Prep Date: **12/20/02**

Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340721**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | 29.88 | 0.75 | 25 | 0 | 120 | 80 | 120 | 0 | | | |
| Cadmium | 29.19 | 0.225 | 25 | 0 | 117 | 80 | 120 | 0 | | | |
| Chromium | 28.39 | 0.75 | 25 | 0 | 114 | 80 | 120 | 0 | | | |
| Lead | 30.85 | 1.5 | 25 | 0 | 123 | 80 | 120 | 0 | | | S |
| Nickel | 29.47 | 0.375 | 25 | 0 | 118 | 80 | 120 | 0 | | | |
| Selenium | 29.59 | 1.5 | 25 | 1.155 | 114 | 80 | 120 | 0 | | | |
| Silver | 9.138 | 0.225 | 25 | 0 | 36.6 | 80 | 120 | 0 | | | S |

Sample ID: **LCS-7652** Batch ID: **7652** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/27/02 9:17:53 AM** Prep Date: **12/20/02**

Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **341137**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 25.29 | 1.5 | 25 | 0 | 101 | 80 | 120 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

Sample ID: **LCS-7701** Batch ID: **7701** Test Code: **SW8081A** Units: **µg/Kg** Analysis Date **12/27/02 10:32:00 PM** Prep Date: **12/27/02**
Client ID: Run ID: **GC_HP_3_021227B** SeqNo: **341551**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4-DDD | 19.94 | 6 | 20 | 0 | 99.7 | 72.4 | 129 | 0 | | | |
| 4,4-DDE | 20.51 | 12 | 20 | 0 | 103 | 59.9 | 102.9 | 0 | | | |
| 4,4-DDT | 22.65 | 6 | 20 | 0 | 113 | 50.8 | 141 | 0 | | | |
| Aldrin | 10.26 | 12 | 10 | 0 | 103 | 38.4 | 168 | 0 | | | J |
| alpha-BHC | 10.62 | 12 | 10 | 0 | 106 | 64.7 | 119 | 0 | | | J |
| alpha-Chlordane | 10.13 | 9 | 10 | 0 | 101 | 63.9 | 129 | 0 | | | |
| beta-BHC | 10.19 | 18 | 10 | 0 | 102 | 53.2 | 136 | 0 | | | J |
| delta-BHC | 9.72 | 6 | 10 | 0 | 97.2 | 50.4 | 150 | 0 | | | |
| Dieldrin | 19.77 | 36 | 20 | 0 | 98.8 | 66 | 126 | 0 | | | J |
| Endosulfan I | 10.57 | 12 | 10 | 0 | 106 | 66.1 | 130 | 0 | | | J |
| Endosulfan II | 20.92 | 9 | 20 | 0 | 105 | 57 | 147 | 0 | | | |
| Endosulfan sulfate | 21.25 | 12 | 20 | 0 | 106 | 69.8 | 119 | 0 | | | |
| Endrin | 19.08 | 12 | 20 | 0 | 95.4 | 61.3 | 132 | 0 | | | |
| Endrin aldehyde | 22.89 | 66 | 20 | 0 | 114 | 59 | 120 | 0 | | | J |
| Endrin ketone | 20.14 | 6 | 20 | 0 | 101 | 64.9 | 122 | 0 | | | |
| gamma-BHC | 10.22 | 6 | 10 | 0 | 102 | 55.4 | 135 | 0 | | | |
| gamma-Chlordane | 10.09 | 12 | 10 | 0 | 101 | 59.4 | 138 | 0 | | | J |
| Heptachlor | 10.1 | 3 | 10 | 0 | 101 | 64 | 131 | 0 | | | |
| Heptachlor epoxide | 9.62 | 18 | 10 | 0 | 96.2 | 61.7 | 137 | 0 | | | J |
| Methoxychlor | 104.7 | 78 | 100 | 0 | 105 | 38.8 | 156 | 0 | | | |
| Surr: Tetrachloro-m-xylene | 129.7 | 0 | 160 | 0 | 81.1 | 49.4 | 134 | 0 | | | |

Sample ID: **LCS-7700** Batch ID: **7700** Test Code: **SW8082** Units: **µg/Kg** Analysis Date **12/27/02 11:17:00 PM** Prep Date: **12/27/02**
Client ID: Run ID: **GC_HP_3_021227B** SeqNo: **341552**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1260 | 1805 | 300 | 2000 | 0 | 90.3 | 58.2 | 140 | 0 | | | |
| Surr: Tetrachloro-m-xylene | 168 | 0 | 160 | 0 | 105 | 33.7 | 156 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

Sample ID: **8260 LCS** Batch ID: **R22106** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/27/02 12:22:00 PM** Prep Date:

Client ID: Run ID: **GCMS5_021227A** SeqNo: **341391**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 19.52 | 0.893 | 20 | 0 | 97.6 | | | 0 | | | |
| 1,1,1-Trichloroethane | 17.64 | 0.666 | 20 | 0 | 88.2 | | | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 15.45 | 0.992 | 20 | 0 | 77.2 | | | 0 | | | |
| 1,1,2-Trichloroethane | 17.25 | 2.08 | 20 | 0 | 86.2 | | | 0 | | | |
| 1,1-Dichloroethane | 17 | 0.719 | 20 | 0 | 85 | | | 0 | | | |
| 1,1-Dichloroethene | 16.77 | 1.54 | 20 | 0 | 83.9 | 70 | 130 | 0 | | | |
| 1,1-Dichloropropene | 17.87 | 1.68 | 20 | 0 | 89.4 | | | 0 | | | |
| 1,2,3-Trichlorobenzene | 19.79 | 2.35 | 20 | 0 | 98.9 | | | 0 | | | |
| 1,2,3-Trichloropropane | 14.51 | 0.725 | 20 | 0 | 72.6 | | | 0 | | | |
| 1,2,4-Trichlorobenzene | 23.44 | 2.92 | 20 | 0 | 117 | | | 0 | | | |
| 1,2,4-Trimethylbenzene | 18.84 | 1.33 | 20 | 0 | 94.2 | | | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 13.08 | 3.01 | 20 | 0 | 65.4 | | | 0 | | | |
| 1,2-Dibromoethane | 18.94 | 0.99 | 20 | 0 | 94.7 | | | 0 | | | |
| 1,2-Dichlorobenzene | 19.06 | 0.903 | 20 | 0 | 95.3 | | | 0 | | | |
| 1,2-Dichloroethane | 18.93 | 0.876 | 20 | 0 | 94.6 | | | 0 | | | |
| 1,2-Dichloropropane | 18.06 | 1.35 | 20 | 0 | 90.3 | | | 0 | | | |
| 1,3,5-Trimethylbenzene | 17.53 | 0.76 | 20 | 0 | 87.6 | | | 0 | | | |
| 1,3-Dichlorobenzene | 20.43 | 0.912 | 20 | 0 | 102 | | | 0 | | | |
| 1,3-Dichloropropane | 19.15 | 0.916 | 20 | 0 | 95.7 | | | 0 | | | |
| 1,4-Dichlorobenzene | 20.29 | 1.06 | 20 | 0 | 101 | | | 0 | | | |
| 2,2-Dichloropropane | 13.46 | 1.05 | 20 | 0 | 67.3 | | | 0 | | | |
| 2-Butanone | 14.78 | 4.53 | 20 | 0 | 73.9 | | | 0 | | | |
| 2-Chloroethyl vinyl ether | 4.48 | 1.34 | 20 | 0 | 22.4 | | | 0 | | | |
| 2-Chlorotoluene | 16.95 | 0.711 | 20 | 0 | 84.7 | | | 0 | | | |
| 2-Hexanone | 14.6 | 2.24 | 20 | 0 | 73 | | | 0 | | | |
| 4-Chlorotoluene | 16.72 | 1.04 | 20 | 0 | 83.6 | | | 0 | | | |
| 4-Isopropyltoluene | 17.75 | 1.43 | 20 | 0 | 88.8 | | | 0 | | | |
| 4-Methyl-2-pentanone | 16.63 | 1.83 | 20 | 0 | 83.1 | | | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** *02120794*
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Acetone | 16.13 | 8.88 | 20 | 0 | 80.6 | | | 0 |
| Acrolein | 16.26 | 5.13 | 20 | 0 | 81.3 | | | 0 |
| Acrylonitrile | 14.11 | 3.09 | 20 | 0 | 70.6 | | | 0 |
| Allyl Chloride | 15.84 | 2.1 | 20 | 0 | 79.2 | | | 0 |
| Benzene | 18.21 | 0.95 | 20 | 0 | 91.1 | 70 | 130 | 0 |
| Bromobenzene | 18.17 | 1.31 | 20 | 0 | 90.9 | | | 0 |
| Bromochloromethane | 18.37 | 0.996 | 20 | 0 | 91.9 | | | 0 |
| Bromodichloromethane | 18.09 | 0.607 | 20 | 0 | 90.4 | | | 0 |
| Bromoform | 13.99 | 1.5 | 20 | 0 | 70 | | | 0 |
| Bromomethane | 18.04 | 7.34 | 20 | 0 | 90.2 | | | 0 |
| Carbon disulfide | 19.57 | 1.2 | 20 | 0 | 97.9 | | | 0 |
| Carbon tetrachloride | 18.22 | 1.15 | 20 | 0 | 91.1 | | | 0 |
| Chlorobenzene | 18.32 | 1.08 | 20 | 0 | 91.6 | 70 | 130 | 0 |
| Chloroethane | 19.38 | 12.1 | 20 | 0 | 96.9 | | | 0 |
| Chloroform | 18.55 | 0.67 | 20 | 0 | 92.8 | | | 0 |
| Chloromethane | 16.55 | 3.29 | 20 | 0 | 82.8 | | | 0 |
| cis-1,2-Dichloroethene | 18.97 | 0.86 | 20 | 0 | 94.8 | | | 0 |
| cis-1,3-Dichloropropene | 17.97 | 0.874 | 20 | 0 | 89.8 | | | 0 |
| Dibromochloromethane | 18.39 | 1.03 | 20 | 0 | 92 | | | 0 |
| Dibromomethane | 18.47 | 1.26 | 20 | 0 | 92.4 | | | 0 |
| Dichlorodifluoromethane | 19.93 | 2.02 | 20 | 0 | 99.6 | | | 0 |
| Ethyl methacrylate | 16.24 | 1.23 | 20 | 0 | 81.2 | | | 0 |
| Ethylbenzene | 17.67 | 1.13 | 20 | 0 | 88.4 | | | 0 |
| Hexachlorobutadiene | 20.39 | 1.92 | 20 | 0 | 102 | | | 0 |
| Hexachloroethane | 17.43 | 0.819 | 20 | 0 | 87.1 | | | 0 |
| Iodomethane | 39.43 | 3.09 | 20 | 0 | 197 | | | 0 |
| Isopropylbenzene | 16.76 | 0.61 | 20 | 0 | 83.8 | | | 0 |
| m,p-Xylene | 35.43 | 2.56 | 20 | 0 | 177 | | | 0 |
| Methyl acrylate | 14.61 | 1.2 | 20 | 0 | 73 | | | 0 |
| Methyl acrylonitrile | 14.08 | 1.85 | 20 | 0 | 70.4 | | | 0 |
| Methyl methacrylate | 16.24 | 2.58 | 20 | 0 | 81.2 | | | 0 |
| Methyl tert-butyl ether | 11.48 | 0.786 | 20 | 0 | 57.4 | | | 0 |
| Methylene chloride | 6.01 | 1.18 | 20 | 0 | 30 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 17.27 | 1.17 | 20 | 0 | 86.4 | | | 0 |
| n-Propylbenzene | 16.86 | 0.999 | 20 | 0 | 84.3 | | | 0 |
| Naphthalene | 20.1 | 1.14 | 20 | 0 | 101 | | | 0 |
| o-Xylene | 18.45 | 1.64 | 20 | 0 | 92.2 | | | 0 |
| Pentachloroethane | 17.78 | 2.06 | 20 | 0 | 88.9 | | | 0 |
| sec-Butylbenzene | 17.37 | 0.655 | 20 | 0 | 86.9 | | | 0 |
| Styrene | 18.74 | 1.02 | 20 | 0 | 93.7 | | | 0 |
| tert-Butylbenzene | 17.47 | 0.758 | 20 | 0 | 87.4 | | | 0 |
| Tetrachloroethene | 18.69 | 2.41 | 20 | 0 | 93.5 | | | 0 |
| Tetrahydrofuran | 12.4 | 2.5 | 20 | 0 | 62 | | | 0 |
| Toluene | 18.15 | 1.15 | 20 | 0 | 90.8 | 70 | 130 | 0 |
| trans-1,2-Dichloroethene | 17.75 | 1.63 | 20 | 0 | 88.8 | | | 0 |
| trans-1,3-Dichloropropene | 15.22 | 1.05 | 20 | 0 | 76.1 | | | 0 |
| Trichloroethene | 18.03 | 1.55 | 20 | 0 | 90.2 | 70 | 130 | 0 |
| Trichlorofluoromethane | 16.67 | 1.01 | 20 | 0 | 83.4 | | | 0 |
| Vinyl acetate | 12.38 | 3 | 20 | 0 | 61.9 | | | 0 |
| Vinyl chloride | 17.72 | 1.27 | 20 | 0 | 88.6 | | | 0 |
| Surr: 4-Bromofluorobenzene | 50.83 | 0 | 50 | 0 | 102 | 70 | 130 | 0 |
| Surr: Dibromofluoromethane | 50.3 | 0 | 50 | 0 | 101 | 70 | 130 | 0 |
| Surr: Toluene-d8 | 47.39 | 0 | 50 | 0 | 94.8 | 70 | 130 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

Sample ID: **8260 LCS** Batch ID: **R22153** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/28/02 1:19:00 PM** Prep Date:

Client ID: Run ID: **GCMS5_021228A** SeqNo: **342089**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 20.82 | 0.893 | 20 | 0 | 104 | | | 0 | | | |
| 1,1,1-Trichloroethane | 17.72 | 0.666 | 20 | 0 | 88.6 | | | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 17.68 | 0.992 | 20 | 0 | 88.4 | | | 0 | | | |
| 1,1,2-Trichloroethane | 20.27 | 2.08 | 20 | 0 | 101 | | | 0 | | | |
| 1,1-Dichloroethane | 19.36 | 0.719 | 20 | 0 | 96.8 | | | 0 | | | |
| 1,1-Dichloroethene | 20.74 | 1.54 | 20 | 0 | 104 | 70 | 130 | 0 | | | |
| 1,1-Dichloropropene | 20.01 | 1.68 | 20 | 0 | 100 | | | 0 | | | |
| 1,2,3-Trichlorobenzene | 25.72 | 2.35 | 20 | 0 | 129 | | | 0 | | | |
| 1,2,3-Trichloropropane | 15.08 | 0.725 | 20 | 0 | 75.4 | | | 0 | | | |
| 1,2,4-Trichlorobenzene | 26.16 | 2.92 | 20 | 0 | 131 | | | 0 | | | |
| 1,2,4-Trimethylbenzene | 21.17 | 1.33 | 20 | 0 | 106 | | | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 14.33 | 3.01 | 20 | 0 | 71.7 | | | 0 | | | |
| 1,2-Dibromoethane | 22.97 | 0.99 | 20 | 0 | 115 | | | 0 | | | |
| 1,2-Dichlorobenzene | 20.46 | 0.903 | 20 | 0 | 102 | | | 0 | | | |
| 1,2-Dichloroethane | 20.81 | 0.876 | 20 | 0 | 104 | | | 0 | | | |
| 1,2-Dichloropropane | 20.09 | 1.35 | 20 | 0 | 100 | | | 0 | | | |
| 1,3,5-Trimethylbenzene | 19.66 | 0.76 | 20 | 0 | 98.3 | | | 0 | | | |
| 1,3-Dichlorobenzene | 22.41 | 0.912 | 20 | 0 | 112 | | | 0 | | | |
| 1,3-Dichloropropane | 19.95 | 0.916 | 20 | 0 | 99.8 | | | 0 | | | |
| 1,4-Dichlorobenzene | 21.59 | 1.06 | 20 | 0 | 108 | | | 0 | | | |
| 2,2-Dichloropropane | 11.28 | 1.05 | 20 | 0 | 56.4 | | | 0 | | | |
| 2-Butanone | 16.17 | 4.53 | 20 | 0 | 80.9 | | | 0 | | | |
| 2-Chloroethyl vinyl ether | 2.99 | 1.34 | 20 | 0 | 15 | | | 0 | | | |
| 2-Chlorotoluene | 18.49 | 0.711 | 20 | 0 | 92.4 | | | 0 | | | |
| 2-Hexanone | 15.46 | 2.24 | 20 | 0 | 77.3 | | | 0 | | | |
| 4-Chlorotoluene | 18.73 | 1.04 | 20 | 0 | 93.6 | | | 0 | | | |
| 4-Isopropyltoluene | 19.52 | 1.43 | 20 | 0 | 97.6 | | | 0 | | | |
| 4-Methyl-2-pentanone | 19.13 | 1.83 | 20 | 0 | 95.6 | | | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Acetone | 17.29 | 8.88 | 20 | 0 | 86.4 | | | 0 |
| Acrolein | 21.79 | 5.13 | 20 | 0 | 109 | | | 0 |
| Acrylonitrile | 16.53 | 3.09 | 20 | 0 | 82.6 | | | 0 |
| Allyl Chloride | 19.49 | 2.1 | 20 | 0 | 97.4 | | | 0 |
| Benzene | 19.61 | 0.95 | 20 | 0 | 98 | 70 | 130 | 0 |
| Bromobenzene | 19.44 | 1.31 | 20 | 0 | 97.2 | | | 0 |
| Bromochloromethane | 19.71 | 0.996 | 20 | 0 | 98.6 | | | 0 |
| Bromodichloromethane | 20.5 | 0.607 | 20 | 0 | 102 | | | 0 |
| Bromoform | 17.07 | 1.5 | 20 | 0 | 85.4 | | | 0 |
| Bromomethane | 20.52 | 7.34 | 20 | 0 | 103 | | | 0 |
| Carbon disulfide | 26.36 | 1.2 | 20 | 0 | 132 | | | 0 |
| Carbon tetrachloride | 19.99 | 1.15 | 20 | 0 | 99.9 | | | 0 |
| Chlorobenzene | 19.62 | 1.08 | 20 | 0 | 98.1 | 70 | 130 | 0 |
| Chloroethane | 18.54 | 12.1 | 20 | 0 | 92.7 | | | 0 |
| Chloroform | 19.91 | 0.67 | 20 | 0 | 99.6 | | | 0 |
| Chloromethane | 15.88 | 3.29 | 20 | 0 | 79.4 | | | 0 |
| cis-1,2-Dichloroethene | 20.06 | 0.86 | 20 | 0 | 100 | | | 0 |
| cis-1,3-Dichloropropene | 20.4 | 0.874 | 20 | 0 | 102 | | | 0 |
| Dibromochloromethane | 20.19 | 1.03 | 20 | 0 | 101 | | | 0 |
| Dibromomethane | 21.55 | 1.26 | 20 | 0 | 108 | | | 0 |
| Dichlorodifluoromethane | 16.29 | 2.02 | 20 | 0 | 81.4 | | | 0 |
| Ethyl methacrylate | 18.9 | 1.23 | 20 | 0 | 94.5 | | | 0 |
| Ethylbenzene | 19.12 | 1.13 | 20 | 0 | 95.6 | | | 0 |
| Hexachlorobutadiene | 20.22 | 1.92 | 20 | 0 | 101 | | | 0 |
| Hexachloroethane | 18.36 | 0.819 | 20 | 0 | 91.8 | | | 0 |
| Iodomethane | 43.76 | 3.09 | 20 | 0 | 219 | | | 0 |
| Isopropylbenzene | 17.77 | 0.61 | 20 | 0 | 88.8 | | | 0 |
| m,p-Xylene | 38.72 | 2.56 | 20 | 0 | 194 | | | 0 |
| Methyl acrylate | 16.7 | 1.2 | 20 | 0 | 83.5 | | | 0 |
| Methyl acrylonitrile | 14.94 | 1.85 | 20 | 0 | 74.7 | | | 0 |
| Methyl methacrylate | 18.28 | 2.58 | 20 | 0 | 91.4 | | | 0 |
| Methyl tert-butyl ether | 11.24 | 0.786 | 20 | 0 | 56.2 | | | 0 |
| Methylene chloride | 10.64 | 1.18 | 20 | 0 | 53.2 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 19.05 | 1.17 | 20 | 0 | 95.2 | | | 0 |
| n-Propylbenzene | 18.66 | 0.999 | 20 | 0 | 93.3 | | | 0 |
| Naphthalene | 24.53 | 1.14 | 20 | 0.86 | 118 | | | 0 |
| o-Xylene | 21.05 | 1.64 | 20 | 0 | 105 | | | 0 |
| Pentachloroethane | 20.13 | 2.06 | 20 | 0 | 101 | | | 0 |
| sec-Butylbenzene | 18.88 | 0.655 | 20 | 0 | 94.4 | | | 0 |
| Styrene | 21.35 | 1.02 | 20 | 0 | 107 | | | 0 |
| tert-Butylbenzene | 18.98 | 0.758 | 20 | 0 | 94.9 | | | 0 |
| Tetrachloroethene | 18.82 | 2.41 | 20 | 0 | 94.1 | | | 0 |
| Tetrahydrofuran | 17.56 | 2.5 | 20 | 0 | 87.8 | | | 0 |
| Toluene | 20.81 | 1.15 | 20 | 0 | 104 | 70 | 130 | 0 |
| trans-1,2-Dichloroethene | 20.72 | 1.63 | 20 | 0 | 104 | | | 0 |
| trans-1,3-Dichloropropene | 16.93 | 1.05 | 20 | 0 | 84.6 | | | 0 |
| Trichloroethene | 19.24 | 1.55 | 20 | 0 | 96.2 | 70 | 130 | 0 |
| Trichlorofluoromethane | 15.91 | 1.01 | 20 | 0 | 79.5 | | | 0 |
| Vinyl acetate | 13.99 | 3 | 20 | 0 | 70 | | | 0 |
| Vinyl chloride | 17.22 | 1.27 | 20 | 0 | 86.1 | | | 0 |
| Surr: 4-Bromofluorobenzene | 54.11 | 0 | 50 | 0 | 108 | 70 | 130 | 0 |
| Surr: Dibromofluoromethane | 51.6 | 0 | 50 | 0 | 103 | 70 | 130 | 0 |
| Surr: Toluene-d8 | 50.95 | 0 | 50 | 0 | 102 | 70 | 130 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

Sample ID: **LCS** Batch ID: **R22156** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/27/02 4:44:00 PM** Prep Date:

Client ID: Run ID: **GCMS4_021227A** SeqNo: **342137**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 18.59 | 0.893 | 20 | 0 | 93 | | | 0 | | | |
| 1,1,1-Trichloroethane | 17.59 | 0.666 | 20 | 0 | 87.9 | | | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 20.25 | 0.992 | 20 | 0 | 101 | | | 0 | | | |
| 1,1,2-Trichloroethane | 18.84 | 2.08 | 20 | 0 | 94.2 | | | 0 | | | |
| 1,1-Dichloroethane | 19.11 | 0.719 | 20 | 0 | 95.6 | | | 0 | | | |
| 1,1-Dichloroethene | 19.52 | 1.54 | 20 | 0 | 97.6 | 70 | 130 | 0 | | | |
| 1,1-Dichloropropene | 19.45 | 1.68 | 20 | 0 | 97.2 | | | 0 | | | |
| 1,2,3-Trichlorobenzene | 21.67 | 2.35 | 20 | 0 | 108 | | | 0 | | | |
| 1,2,3-Trichloropropane | 20.64 | 0.725 | 20 | 0 | 103 | | | 0 | | | |
| 1,2,4-Trichlorobenzene | 22.27 | 2.92 | 20 | 0 | 111 | | | 0 | | | |
| 1,2,4-Trimethylbenzene | 21.36 | 1.33 | 20 | 0 | 107 | | | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 19 | 3.01 | 20 | 0 | 95 | | | 0 | | | |
| 1,2-Dibromoethane | 17.83 | 0.99 | 20 | 0 | 89.1 | | | 0 | | | |
| 1,2-Dichlorobenzene | 21.1 | 0.903 | 20 | 0 | 106 | | | 0 | | | |
| 1,2-Dichloroethane | 18.16 | 0.876 | 20 | 0 | 90.8 | | | 0 | | | |
| 1,2-Dichloropropane | 18.37 | 1.35 | 20 | 0 | 91.9 | | | 0 | | | |
| 1,3,5-Trimethylbenzene | 21.55 | 0.76 | 20 | 0 | 108 | | | 0 | | | |
| 1,3-Dichlorobenzene | 20.74 | 0.912 | 20 | 0 | 104 | | | 0 | | | |
| 1,3-Dichloropropane | 20.27 | 0.916 | 20 | 0 | 101 | | | 0 | | | |
| 1,4-Dichlorobenzene | 19.93 | 1.06 | 20 | 0 | 99.6 | | | 0 | | | |
| 2,2-Dichloropropane | 17.46 | 1.05 | 20 | 0 | 87.3 | | | 0 | | | |
| 2-Butanone | 18.9 | 4.53 | 20 | 0 | 94.5 | | | 0 | | | |
| 2-Chloroethyl vinyl ether | 19.84 | 1.34 | 20 | 0 | 99.2 | | | 0 | | | |
| 2-Chlorotoluene | 21.56 | 0.711 | 20 | 0 | 108 | | | 0 | | | |
| 2-Hexanone | 20.69 | 2.24 | 20 | 0 | 103 | | | 0 | | | |
| 4-Chlorotoluene | 20.9 | 1.04 | 20 | 0 | 104 | | | 0 | | | |
| 4-Isopropyltoluene | 22.19 | 1.43 | 20 | 0 | 111 | | | 0 | | | |
| 4-Methyl-2-pentanone | 22.98 | 1.83 | 20 | 0 | 115 | | | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 27.49 | 8.88 | 20 | 0 | 137 | | | 0 | |
| Acrolein | 31.42 | 5.13 | 20 | 0 | 157 | | | 0 | |
| Acrylonitrile | 18.9 | 3.09 | 20 | 0 | 94.5 | | | 0 | |
| Allyl Chloride | 19.2 | 2.1 | 20 | 0 | 96 | | | 0 | |
| Benzene | 18.76 | 0.95 | 20 | 0 | 93.8 | 70 | 130 | 0 | |
| Bromobenzene | 20.06 | 1.31 | 20 | 0 | 100 | | | 0 | |
| Bromochloromethane | 19.16 | 0.996 | 20 | 0 | 95.8 | | | 0 | |
| Bromodichloromethane | 16.64 | 0.607 | 20 | 0 | 83.2 | | | 0 | |
| Bromoform | 16.43 | 1.5 | 20 | 0 | 82.2 | | | 0 | |
| Bromomethane | 21.17 | 7.34 | 20 | 0 | 106 | | | 0 | |
| Carbon disulfide | 19.01 | 1.2 | 20 | 0 | 95.1 | | | 0 | |
| Carbon tetrachloride | 9.56 | 1.15 | 20 | 0 | 47.8 | | | 0 | |
| Chlorobenzene | 19.73 | 1.08 | 20 | 0 | 98.6 | 70 | 130 | 0 | |
| Chloroethane | 20.69 | 12.1 | 20 | 0 | 103 | | | 0 | |
| Chloroform | 19.44 | 0.67 | 20 | 0 | 97.2 | | | 0 | |
| Chloromethane | 21.94 | 3.29 | 20 | 0 | 110 | | | 0 | |
| cis-1,2-Dichloroethene | 18.78 | 0.86 | 20 | 0 | 93.9 | | | 0 | |
| cis-1,3-Dichloropropene | 18.88 | 0.874 | 20 | 0 | 94.4 | | | 0 | |
| Dibromochloromethane | 17.88 | 1.03 | 20 | 0 | 89.4 | | | 0 | |
| Dibromomethane | 19.2 | 1.26 | 20 | 0 | 96 | | | 0 | |
| Dichlorodifluoromethane | 23.42 | 2.02 | 20 | 0 | 117 | | | 0 | |
| Ethyl methacrylate | 19.63 | 1.23 | 20 | 0 | 98.1 | | | 0 | |
| Ethylbenzene | 21.79 | 1.13 | 20 | 0 | 109 | | | 0 | |
| Hexachlorobutadiene | 23.01 | 1.92 | 20 | 34 | -54.9 | | | 0 | B |
| Hexachloroethane | 17.16 | 0.819 | 20 | 0 | 85.8 | | | 0 | |
| Iodomethane | 20.57 | 3.09 | 20 | 0 | 103 | | | 0 | |
| Isopropylbenzene | 22.1 | 0.61 | 20 | 0 | 110 | | | 0 | |
| m,p-Xylene | 43.5 | 2.56 | 20 | 0 | 217 | | | 0 | B |
| Methyl acrylate | 18.16 | 1.2 | 20 | 0 | 90.8 | | | 0 | |
| Methyl acrylonitrile | 19.94 | 1.85 | 20 | 0 | 99.7 | | | 0 | |
| Methyl methacrylate | 18.53 | 2.58 | 20 | 0 | 92.6 | | | 0 | |
| Methyl tert-butyl ether | 19.03 | 0.786 | 20 | 0 | 95.2 | | | 0 | |
| Methylene chloride | 18.6 | 1.18 | 20 | 0 | 93 | | | 0 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 23.41 | 1.17 | 20 | 0 | 117 | | | 0 |
| n-Propylbenzene | 22.92 | 0.999 | 20 | 0 | 115 | | | 0 |
| Naphthalene | 22.17 | 1.14 | 20 | 0 | 111 | | | 0 |
| o-Xylene | 21.19 | 1.64 | 20 | 0 | 106 | | | 0 |
| Pentachloroethane | 19.53 | 2.06 | 20 | 0 | 97.6 | | | 0 |
| sec-Butylbenzene | 22.81 | 0.655 | 20 | 0 | 114 | | | 0 |
| Styrene | 20.69 | 1.02 | 20 | 0 | 103 | | | 0 |
| tert-Butylbenzene | 21.23 | 0.758 | 20 | 0 | 106 | | | 0 |
| Tetrachloroethene | 22.35 | 2.41 | 20 | 0 | 112 | | | 0 |
| Tetrahydrofuran | 19.46 | 2.5 | 20 | 0 | 97.3 | | | 0 |
| Toluene | 19.51 | 1.15 | 20 | 0 | 97.6 | 70 | 130 | 0 |
| trans-1,2-Dichloroethene | 19.43 | 1.63 | 20 | 0 | 97.2 | | | 0 |
| trans-1,3-Dichloropropene | 19.04 | 1.05 | 20 | 0 | 95.2 | | | 0 |
| Trichloroethene | 19.4 | 1.55 | 20 | 0 | 97 | 70 | 130 | 0 |
| Trichlorofluoromethane | 18.55 | 1.01 | 20 | 0 | 92.8 | | | 0 |
| Vinyl acetate | 16.35 | 3 | 20 | 0 | 81.8 | | | 0 |
| Vinyl chloride | 19.99 | 1.27 | 20 | 0 | 99.9 | | | 0 |
| Surr: 4-Bromofluorobenzene | 51.52 | 0 | 50 | 0 | 103 | 70 | 130 | 0 |
| Surr: Dibromofluoromethane | 48.57 | 0 | 50 | 0 | 97.1 | 70 | 130 | 0 |
| Surr: Toluene-d8 | 49.7 | 0 | 50 | 0 | 99.4 | 70 | 130 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Laboratory Control Spike - Generic

Sample ID: **LCS-7695** Batch ID: **7695** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/27/02 1:51:00 PM** Prep Date: **12/24/02**

Client ID: Run ID: **SV_1_021227A** SeqNo: **341296**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 2819 | 256 | 3330 | 0 | 84.7 | 44 | 115 | 0 | | | |
| 1,4-Dichlorobenzene | 2809 | 221 | 3330 | 0 | 84.4 | 44 | 110 | 0 | | | |
| 2,4-Dinitrotoluene | 2706 | 108 | 3330 | 0 | 81.3 | 47 | 130 | 0 | | | |
| 2-Chlorophenol | 2866 | 495 | 3330 | 0 | 86.1 | 29 | 107 | 0 | | | |
| 4-Chloro-3-methylphenol | 3136 | 277 | 3330 | 0 | 94.2 | 44 | 111 | 0 | | | |
| 4-Nitrophenol | 692 | 108 | 3330 | 0 | 20.8 | 33 | 173 | 0 | | | S |
| Acenaphthene | 2925 | 121 | 3330 | 0 | 87.8 | 51 | 125 | 0 | | | |
| N-Nitrosodi-n-propylamine | 2919 | 245 | 3330 | 0 | 87.6 | 42 | 149 | 0 | | | |
| Pentachlorophenol | ND | 109 | 3330 | 0 | 0 | 36 | 144 | 0 | | | S |
| Phenol | 2743 | 115 | 3330 | 0 | 82.4 | 39 | 107 | 0 | | | |
| Pyrene | 2160 | 124 | 3330 | 0 | 64.9 | 34 | 123 | 0 | | | |
| Surr: 2,4,6-Tribromophenol | 6448 | 0 | 3330 | 0 | 194 | 20 | 117 | 0 | | | S |
| Surr: 2-Fluorobiphenyl | 9136 | 0 | 3330 | 0 | 274 | 47 | 128 | 0 | | | S |
| Surr: 2-Fluorophenol | 8236 | 0 | 3330 | 0 | 247 | 41 | 108 | 0 | | | S |
| Surr: 4-Terphenyl-d14 | 11110 | 0 | 3330 | 0 | 334 | 5 | 131 | 0 | | | S |
| Surr: Nitrobenzene-d5 | 8210 | 0 | 3330 | 0 | 247 | 32 | 120 | 0 | | | S |
| Surr: Phenol-d5 | 9521 | 0 | 3330 | 0 | 286 | 52 | 116 | 0 | | | S |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

Sample ID: **LCS-7692** Batch ID: **7692** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/24/02 1:25:00 PM** Prep Date: **12/24/02**

Client ID: Run ID: **SV_3_021224A** SeqNo: **340825**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 967 | 120 | 1000 | 0 | 96.7 | 70 | 130 | 0 | | | |
| Acenaphthylene | 1031 | 120 | 1000 | 0 | 103 | 70 | 130 | 0 | | | |
| Anthracene | 919.4 | 120 | 1000 | 0 | 91.9 | 70 | 130 | 0 | | | |
| Benzo(a)anthracene | 893.4 | 120 | 1000 | 0 | 89.3 | 70 | 130 | 0 | | | |
| Benzo(a)pyrene | 818.9 | 120 | 1000 | 0 | 81.9 | 70 | 130 | 0 | | | Q |
| Benzo(b)fluoranthene | 949.5 | 120 | 1000 | 0 | 95 | 70 | 130 | 0 | | | Q |
| Benzo(g,h,i)perylene | 853 | 120 | 1000 | 0 | 85.3 | 70 | 130 | 0 | | | Q |
| Benzo(k)fluoranthene | 914.9 | 120 | 1000 | 0 | 91.5 | 70 | 130 | 0 | | | Q |
| Chrysene | 914.1 | 120 | 1000 | 0 | 91.4 | 70 | 130 | 0 | | | |
| Dibenzo(a,h)anthracene | 750.7 | 120 | 1000 | 0 | 75.1 | 70 | 130 | 0 | | | Q |
| Fluoranthene | 1008 | 120 | 1000 | 0 | 101 | 70 | 130 | 0 | | | |
| Fluorene | 966 | 120 | 1000 | 0 | 96.6 | 70 | 130 | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 765.6 | 120 | 1000 | 0 | 76.6 | 70 | 130 | 0 | | | Q |
| Naphthalene | 865.7 | 120 | 1000 | 0 | 86.6 | 70 | 130 | 0 | | | Q |
| Phenanthrene | 1072 | 120 | 1000 | 0 | 107 | 70 | 130 | 0 | | | |
| Pyrene | 1064 | 120 | 1000 | 0 | 106 | 70 | 130 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 2011 | 0 | 2000 | 0 | 101 | 70 | 130 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 1660 | 0 | 2000 | 0 | 83 | 70 | 130 | 0 | | | |
| Surr: Nitrobenzene-d5 | 1870 | 0 | 2000 | 0 | 93.5 | 70 | 130 | 0 | | | Q |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

Sample ID: **LCS-7694** Batch ID: **7694** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/26/02 5:55:00 PM** Prep Date: **12/26/02**
Client ID: Run ID: **SV_3_021226A** SeqNo: **341343**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 897.7 | 120 | 1000 | 0 | 89.8 | 70 | 130 | 0 | | | |
| Acenaphthylene | 996 | 120 | 1000 | 0 | 99.6 | 70 | 130 | 0 | | | |
| Anthracene | 821.4 | 120 | 1000 | 0 | 82.1 | 70 | 130 | 0 | | | |
| Benzo(a)anthracene | 918.6 | 120 | 1000 | 0 | 91.9 | 70 | 130 | 0 | | | |
| Benzo(a)pyrene | 762.8 | 120 | 1000 | 0 | 76.3 | 70 | 130 | 0 | | | |
| Benzo(b)fluoranthene | 893.1 | 120 | 1000 | 0 | 89.3 | 70 | 130 | 0 | | | |
| Benzo(g,h,i)perylene | 809.6 | 120 | 1000 | 0 | 81 | 70 | 130 | 0 | | | |
| Benzo(k)fluoranthene | 838.7 | 120 | 1000 | 0 | 83.9 | 70 | 130 | 0 | | | |
| Chrysene | 827.2 | 120 | 1000 | 0 | 82.7 | 70 | 130 | 0 | | | |
| Dibenzo(a,h)anthracene | 736 | 120 | 1000 | 0 | 73.6 | 70 | 130 | 0 | | | |
| Fluoranthene | 962.1 | 120 | 1000 | 0 | 96.2 | 70 | 130 | 0 | | | |
| Fluorene | 938.3 | 120 | 1000 | 0 | 93.8 | 70 | 130 | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 787.9 | 120 | 1000 | 0 | 78.8 | 70 | 130 | 0 | | | |
| Naphthalene | 848.9 | 120 | 1000 | 0 | 84.9 | 70 | 130 | 0 | | | |
| Phenanthrene | 1007 | 120 | 1000 | 0 | 101 | 70 | 130 | 0 | | | |
| Pyrene | 927.6 | 120 | 1000 | 0 | 92.8 | 70 | 130 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 2084 | 0 | 2000 | 0 | 104 | 70 | 130 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 2142 | 0 | 2000 | 0 | 107 | 70 | 130 | 0 | | | |
| Surr: Nitrobenzene-d5 | 2010 | 0 | 2000 | 0 | 100 | 70 | 130 | 0 | | | |

Sample ID: **LCS** Batch ID: **7688** Test Code: **SW1311/7421** Units: **mg/L** Analysis Date **12/26/02 6:05:00 PM** Prep Date: **12/26/02**
Client ID: Run ID: **GFAA1_021226A** SeqNo: **340653**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 0.0291 | 0.006 | 0.03 | 0 | 97 | 87 | 117 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

Suburban Laboratories, Inc.

**Date:** *16-Jan-03*

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

Sample ID: **8260 50 PPB** Batch ID: **R22106** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/27/02 11:25:00 AM** Prep Date:

Client ID: Run ID: **GCMS5_021227A** SeqNo: **341390**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 47.02 | 0.893 | 50 | 0 | 94 | | | 0 | | | |
| 1,1,1-Trichloroethane | 42.25 | 0.666 | 50 | 0 | 84.5 | | | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 35.42 | 0.992 | 50 | 0 | 70.8 | | | 0 | | | |
| 1,1,2-Trichloroethane | 41.99 | 2.08 | 50 | 0 | 84 | | | 0 | | | |
| 1,1-Dichloroethane | 44.52 | 0.719 | 50 | 0 | 89 | | | 0 | | | |
| 1,1-Dichloroethene | 46.34 | 1.54 | 50 | 0 | 92.7 | 80 | 120 | 0 | | | |
| 1,1-Dichloropropene | 43.07 | 1.68 | 50 | 0 | 86.1 | | | 0 | | | |
| 1,2,3-Trichlorobenzene | 50.11 | 2.35 | 50 | 0 | 100 | | | 0 | | | |
| 1,2,3-Trichloropropane | 34.15 | 0.725 | 50 | 0 | 68.3 | | | 0 | | | |
| 1,2,4-Trichlorobenzene | 53.54 | 2.92 | 50 | 0 | 107 | | | 0 | | | |
| 1,2,4-Trimethylbenzene | 47.16 | 1.33 | 50 | 0 | 94.3 | | | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 26.89 | 3.01 | 50 | 0 | 53.8 | | | 0 | | | |
| 1,2-Dibromoethane | 47.01 | 0.99 | 50 | 0 | 94 | | | 0 | | | |
| 1,2-Dichlorobenzene | 43.71 | 0.903 | 50 | 0 | 87.4 | | | 0 | | | |
| 1,2-Dichloroethane | 44.4 | 0.876 | 50 | 0 | 88.8 | | | 0 | | | |
| 1,2-Dichloropropane | 42.12 | 1.35 | 50 | 0 | 84.2 | 80 | 120 | 0 | | | |
| 1,3,5-Trimethylbenzene | 41.99 | 0.76 | 50 | 0 | 84 | | | 0 | | | |
| 1,3-Dichlorobenzene | 47.62 | 0.912 | 50 | 0 | 95.2 | | | 0 | | | |
| 1,3-Dichloropropane | 42.88 | 0.916 | 50 | 0 | 85.8 | | | 0 | | | |
| 1,4-Dichlorobenzene | 49.17 | 1.06 | 50 | 0 | 98.3 | | | 0 | | | |
| 2,2-Dichloropropane | 33.1 | 1.05 | 50 | 0 | 66.2 | | | 0 | | | |
| 2-Butanone | 35.77 | 4.53 | 50 | 0 | 71.5 | | | 0 | | | |
| 2-Chloroethyl vinyl ether | 11.15 | 1.34 | 50 | 0 | 22.3 | | | 0 | | | |
| 2-Chlorotoluene | 40.42 | 0.711 | 50 | 0 | 80.8 | | | 0 | | | |
| 2-Hexanone | 31.66 | 2.24 | 50 | 0 | 63.3 | | | 0 | | | |
| 4-Chlorotoluene | 39.76 | 1.04 | 50 | 0 | 79.5 | | | 0 | | | |
| 4-Isopropyltoluene | 44 | 1.43 | 50 | 0 | 88 | | | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

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|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone | 41.73 | 1.83 | 50 | 0 | 83.5 | | | 0 |
| Acetone | 46.66 | 8.88 | 50 | 0 | 93.3 | | | 0 |
| Acrolein | 36.04 | 5.13 | 50 | 0 | 72.1 | | | 0 |
| Acrylonitrile | 33.34 | 3.09 | 50 | 0 | 66.7 | | | 0 |
| Allyl Chloride | 43.74 | 2.1 | 50 | 0 | 87.5 | | | 0 |
| Benzene | 42.88 | 0.95 | 50 | 0 | 85.8 | | | 0 |
| Bromobenzene | 42.01 | 1.31 | 50 | 0 | 84 | | | 0 |
| Bromochloromethane | 46.04 | 0.996 | 50 | 0 | 92.1 | | | 0 |
| Bromodichloromethane | 42.85 | 0.607 | 50 | 0 | 85.7 | | | 0 |
| Bromoform | 35.39 | 1.5 | 50 | 0 | 70.8 | | | 0 |
| Bromomethane | 50.09 | 7.34 | 50 | 0 | 100 | | | 0 |
| Carbon disulfide | 50.25 | 1.2 | 50 | 0 | 100 | | | 0 |
| Carbon tetrachloride | 43.56 | 1.15 | 50 | 0 | 87.1 | | | 0 |
| Chlorobenzene | 44.13 | 1.08 | 50 | 0 | 88.3 | | | 0 |
| Chloroethane | 49.31 | 12.1 | 50 | 0 | 98.6 | | | 0 |
| Chloroform | 44.44 | 0.67 | 50 | 0 | 88.9 | 80 | 120 | 0 |
| Chloromethane | 40.14 | 3.29 | 50 | 0 | 80.3 | | | 0 |
| cis-1,2-Dichloroethene | 46.57 | 0.86 | 50 | 0 | 93.1 | | | 0 |
| cis-1,3-Dichloropropene | 43.21 | 0.874 | 50 | 0 | 86.4 | | | 0 |
| Dibromochloromethane | 41.74 | 1.03 | 50 | 0 | 83.5 | | | 0 |
| Dibromomethane | 43.53 | 1.26 | 50 | 0 | 87.1 | | | 0 |
| Dichlorodifluoromethane | 48.85 | 2.02 | 50 | 0 | 97.7 | | | 0 |
| Ethyl methacrylate | 39.98 | 1.23 | 50 | 0 | 80 | | | 0 |
| Ethylbenzene | 41.66 | 1.13 | 50 | 0 | 83.3 | 80 | 120 | 0 |
| Hexachlorobutadiene | 43.73 | 1.92 | 50 | 0 | 87.5 | | | 0 |
| Hexachloroethane | 41.99 | 0.819 | 50 | 0 | 84 | | | 0 |
| Iodomethane | 62.23 | 3.09 | 50 | 0 | 124 | | | 0 |
| Isopropylbenzene | 39.57 | 0.61 | 50 | 0 | 79.1 | | | 0 |
| m,p-Xylene | 86 | 2.56 | 50 | 0 | 172 | | | 0 |
| Methyl acrylate | 35.84 | 1.2 | 50 | 0 | 71.7 | | | 0 |
| Methyl acrylonitrile | 33.29 | 1.85 | 50 | 0 | 66.6 | | | 0 |
| Methyl methacrylate | 37.03 | 2.58 | 50 | 0 | 74.1 | | | 0 |
| Methyl tert-butyl ether | 28.39 | 0.786 | 50 | 0 | 56.8 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Methylene chloride | 38.76 | 1.18 | 50 | 0 | 77.5 | | | 0 |
| n-Butylbenzene | 42.87 | 1.17 | 50 | 0 | 85.7 | | | 0 |
| n-Propylbenzene | 39.89 | 0.999 | 50 | 0 | 79.8 | | | 0 |
| Naphthalene | 43.19 | 1.14 | 50 | 0 | 86.4 | | | 0 |
| o-Xylene | 46.02 | 1.64 | 50 | 0 | 92 | | | 0 |
| Pentachloroethane | 43.8 | 2.06 | 50 | 0 | 87.6 | | | 0 |
| sec-Butylbenzene | 41.9 | 0.655 | 50 | 0 | 83.8 | | | 0 |
| Styrene | 46.21 | 1.02 | 50 | 0 | 92.4 | | | 0 |
| tert-Butylbenzene | 41.66 | 0.758 | 50 | 0 | 83.3 | | | 0 |
| Tetrachloroethene | 42.69 | 2.41 | 50 | 0 | 85.4 | | | 0 |
| Tetrahydrofuran | 34.55 | 2.5 | 50 | 0 | 69.1 | | | 0 |
| Toluene | 44.68 | 1.15 | 50 | 0 | 89.4 | 80 | 120 | 0 |
| trans-1,2-Dichloroethene | 47.1 | 1.63 | 50 | 0 | 94.2 | | | 0 |
| trans-1,3-Dichloropropene | 38.93 | 1.05 | 50 | 0 | 77.9 | | | 0 |
| Trichloroethene | 41.86 | 1.55 | 50 | 0 | 83.7 | | | 0 |
| Trichlorofluoromethane | 43.75 | 1.01 | 50 | 0 | 87.5 | | | 0 |
| Vinyl acetate | 34.81 | 3 | 50 | 0 | 69.6 | | | 0 |
| Vinyl chloride | 42.63 | 1.27 | 50 | 0 | 85.3 | 80 | 120 | 0 |
| Surr: 4-Bromofluorobenzene | 50.83 | 0 | 50 | 0 | 102 | | | 0 |
| Surr: Dibromofluoromethane | 50.14 | 0 | 50 | 0 | 100 | | | 0 |
| Surr: Toluene-d8 | 45.64 | 0 | 50 | 0 | 91.3 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

Sample ID: **8260 50 PPB** Batch ID: **R22153** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/28/02 12:21:00 PM** Prep Date:

Client ID: Run ID: **GCMS5_021228A** SeqNo: **342088**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 49.83 | 0.893 | 50 | 0 | 99.7 | | | 0 | | | |
| 1,1,1-Trichloroethane | 42.52 | 0.666 | 50 | 0 | 85 | | | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 42.19 | 0.992 | 50 | 0 | 84.4 | | | 0 | | | |
| 1,1,2-Trichloroethane | 48.18 | 2.08 | 50 | 0 | 96.4 | | | 0 | | | |
| 1,1-Dichloroethane | 46.32 | 0.719 | 50 | 0 | 92.6 | | | 0 | | | |
| 1,1-Dichloroethene | 48.8 | 1.54 | 50 | 0 | 97.6 | 80 | 120 | 0 | | | |
| 1,1-Dichloropropene | 45.44 | 1.68 | 50 | 0 | 90.9 | | | 0 | | | |
| 1,2,3-Trichlorobenzene | 60.56 | 2.35 | 50 | 0 | 121 | | | 0 | | | |
| 1,2,3-Trichloropropane | 38.11 | 0.725 | 50 | 0 | 76.2 | | | 0 | | | |
| 1,2,4-Trichlorobenzene | 60.55 | 2.92 | 50 | 0 | 121 | | | 0 | | | |
| 1,2,4-Trimethylbenzene | 53.14 | 1.33 | 50 | 0 | 106 | | | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 32.3 | 3.01 | 50 | 0 | 64.6 | | | 0 | | | |
| 1,2-Dibromoethane | 52.9 | 0.99 | 50 | 0 | 106 | | | 0 | | | |
| 1,2-Dichlorobenzene | 46.64 | 0.903 | 50 | 0 | 93.3 | | | 0 | | | |
| 1,2-Dichloroethane | 46.42 | 0.876 | 50 | 0 | 92.8 | | | 0 | | | |
| 1,2-Dichloropropane | 45.13 | 1.35 | 50 | 0 | 90.3 | 80 | 120 | 0 | | | |
| 1,3,5-Trimethylbenzene | 47.68 | 0.76 | 50 | 0 | 95.4 | | | 0 | | | |
| 1,3-Dichlorobenzene | 52.46 | 0.912 | 50 | 0 | 105 | | | 0 | | | |
| 1,3-Dichloropropane | 45.4 | 0.916 | 50 | 0 | 90.8 | | | 0 | | | |
| 1,4-Dichlorobenzene | 52.1 | 1.06 | 50 | 0 | 104 | | | 0 | | | |
| 2,2-Dichloropropane | 28.02 | 1.05 | 50 | 0 | 56 | | | 0 | | | |
| 2-Butanone | 40.5 | 4.53 | 50 | 0 | 81 | | | 0 | | | |
| 2-Chloroethyl vinyl ether | 8.67 | 1.34 | 50 | 0 | 17.3 | | | 0 | | | |
| 2-Chlorotoluene | 40.09 | 0.711 | 50 | 0 | 80.2 | | | 0 | | | |
| 2-Hexanone | 36.83 | 2.24 | 50 | 0 | 73.7 | | | 0 | | | |
| 4-Chlorotoluene | 44.87 | 1.04 | 50 | 0 | 89.7 | | | 0 | | | |
| 4-Isopropyltoluene | 47.13 | 1.43 | 50 | 0 | 94.3 | | | 0 | | | |
| 4-Methyl-2-pentanone | 46.56 | 1.83 | 50 | 0 | 93.1 | | | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Acetone | 52.05 | 8.88 | 50 | 0 | 104 | | | 0 |
| Acrolein | 41.06 | 5.13 | 50 | 0 | 82.1 | | | 0 |
| Acrylonitrile | 38.65 | 3.09 | 50 | 0 | 77.3 | | | 0 |
| Allyl Chloride | 46.36 | 2.1 | 50 | 0 | 92.7 | | | 0 |
| Benzene | 44.58 | 0.95 | 50 | 0 | 89.2 | | | 0 |
| Bromobenzene | 47.09 | 1.31 | 50 | 0 | 94.2 | | | 0 |
| Bromochloromethane | 49.25 | 0.996 | 50 | 0 | 98.5 | | | 0 |
| Bromodichloromethane | 48.29 | 0.607 | 50 | 0 | 96.6 | | | 0 |
| Bromoform | 39.67 | 1.5 | 50 | 0 | 79.3 | | | 0 |
| Bromomethane | 53.15 | 7.34 | 50 | 0 | 106 | | | 0 |
| Carbon disulfide | 60.12 | 1.2 | 50 | 0 | 120 | | | 0 |
| Carbon tetrachloride | 46.11 | 1.15 | 50 | 0 | 92.2 | | | 0 |
| Chlorobenzene | 46.1 | 1.08 | 50 | 0 | 92.2 | | | 0 |
| Chloroethane | 51.84 | 12.1 | 50 | 0 | 104 | | | 0 |
| Chloroform | 47.43 | 0.67 | 50 | 0 | 94.9 | 80 | 120 | 0 |
| Chloromethane | 41.32 | 3.29 | 50 | 0 | 82.6 | | | 0 |
| cis-1,2-Dichloroethene | 49.74 | 0.86 | 50 | 0 | 99.5 | | | 0 |
| cis-1,3-Dichloropropene | 45.71 | 0.874 | 50 | 0 | 91.4 | | | 0 |
| Dibromochloromethane | 43.66 | 1.03 | 50 | 0 | 87.3 | | | 0 |
| Dibromomethane | 48.05 | 1.26 | 50 | 0 | 96.1 | | | 0 |
| Dichlorodifluoromethane | 46.99 | 2.02 | 50 | 0 | 94 | | | 0 |
| Ethyl methacrylate | 45.16 | 1.23 | 50 | 0 | 90.3 | | | 0 |
| Ethylbenzene | 44.21 | 1.13 | 50 | 0 | 88.4 | 80 | 120 | 0 |
| Hexachlorobutadiene | 47.47 | 1.92 | 50 | 0 | 94.9 | | | 0 |
| Hexachloroethane | 46.22 | 0.819 | 50 | 0 | 92.4 | | | 0 |
| Iodomethane | 69.26 | 3.09 | 50 | 0 | 139 | | | 0 |
| Isopropylbenzene | 44.55 | 0.61 | 50 | 0 | 89.1 | | | 0 |
| m,p-Xylene | 90.43 | 2.56 | 50 | 0 | 181 | | | 0 |
| Methyl acrylate | 39.77 | 1.2 | 50 | 0 | 79.5 | | | 0 |
| Methyl acrylonitrile | 37.29 | 1.85 | 50 | 0 | 74.6 | | | 0 |
| Methyl methacrylate | 41.53 | 2.58 | 50 | 0 | 83.1 | | | 0 |
| Methyl tert-butyl ether | 25.54 | 0.786 | 50 | 0 | 51.1 | | | 0 |
| Methylene chloride | 41.75 | 1.18 | 50 | 0 | 83.5 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 47.43 | 1.17 | 50 | 0 | 94.9 | | | 0 |
| n-Propylbenzene | 44.81 | 0.999 | 50 | 0 | 89.6 | | | 0 |
| Naphthalene | 51.15 | 1.14 | 50 | 0 | 102 | | | 0 |
| o-Xylene | 48.32 | 1.64 | 50 | 0 | 96.6 | | | 0 |
| Pentachloroethane | 48.31 | 2.06 | 50 | 0 | 96.6 | | | 0 |
| sec-Butylbenzene | 45.59 | 0.655 | 50 | 0 | 91.2 | | | 0 |
| Styrene | 49.02 | 1.02 | 50 | 0 | 98 | | | 0 |
| tert-Butylbenzene | 45.95 | 0.758 | 50 | 0 | 91.9 | | | 0 |
| Tetrachloroethene | 42.84 | 2.41 | 50 | 0 | 85.7 | | | 0 |
| Tetrahydrofuran | 49.38 | 2.5 | 50 | 0 | 98.8 | | | 0 |
| Toluene | 48.13 | 1.15 | 50 | 0 | 96.3 | 80 | 120 | 0 |
| trans-1,2-Dichloroethene | 49.47 | 1.63 | 50 | 0 | 98.9 | | | 0 |
| trans-1,3-Dichloropropene | 42.03 | 1.05 | 50 | 0 | 84.1 | | | 0 |
| Trichloroethene | 44.59 | 1.55 | 50 | 0 | 89.2 | | | 0 |
| Trichlorofluoromethane | 43.38 | 1.01 | 50 | 0 | 86.8 | | | 0 |
| Vinyl acetate | 37.71 | 3 | 50 | 0 | 75.4 | | | 0 |
| Vinyl chloride | 47.48 | 1.27 | 50 | 0 | 95 | 80 | 120 | 0 |
| Surr: 4-Bromofluorobenzene | 51.84 | 0 | 50 | 0 | 104 | | | 0 |
| Surr: Dibromofluoromethane | 51.18 | 0 | 50 | 0 | 102 | | | 0 |
| Surr: Toluene-d8 | 49.37 | 0 | 50 | 0 | 98.7 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Continuing Calibration Verification Standard

Sample ID: **8260 50 PPB** Batch ID: **R22156** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/27/02 4:10:00 PM** Prep Date:

Client ID: Run ID: **GCMS4_021227A** SeqNo: **342136**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 48.1 | 0.893 | 50 | 0 | 96.2 | | | 0 | | | |
| 1,1,1-Trichloroethane | 44.79 | 0.666 | 50 | 0 | 89.6 | | | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 49.79 | 0.992 | 50 | 0 | 99.6 | | | 0 | | | |
| 1,1,2-Trichloroethane | 46.28 | 2.08 | 50 | 0 | 92.6 | | | 0 | | | |
| 1,1-Dichloroethane | 48.94 | 0.719 | 50 | 0 | 97.9 | | | 0 | | | |
| 1,1-Dichloroethene | 48.85 | 1.54 | 50 | 0 | 97.7 | 80 | 120 | 0 | | | |
| 1,1-Dichloropropene | 42.17 | 1.68 | 50 | 0 | 84.3 | | | 0 | | | |
| 1,2,3-Trichlorobenzene | 50 | 2.35 | 50 | 0 | 100 | | | 0 | | | |
| 1,2,3-Trichloropropane | 51.96 | 0.725 | 50 | 0 | 104 | | | 0 | | | |
| 1,2,4-Trichlorobenzene | 52.16 | 2.92 | 50 | 0 | 104 | | | 0 | | | |
| 1,2,4-Trimethylbenzene | 53.63 | 1.33 | 50 | 0 | 107 | | | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 47.13 | 3.01 | 50 | 0 | 94.3 | | | 0 | | | |
| 1,2-Dibromoethane | 44.95 | 0.99 | 50 | 0 | 89.9 | | | 0 | | | |
| 1,2-Dichlorobenzene | 51.71 | 0.903 | 50 | 0 | 103 | | | 0 | | | |
| 1,2-Dichloroethane | 52.42 | 0.876 | 50 | 0 | 105 | | | 0 | | | |
| 1,2-Dichloropropane | 47.93 | 1.35 | 50 | 0 | 95.9 | 80 | 120 | 0 | | | |
| 1,3,5-Trimethylbenzene | 55.23 | 0.76 | 50 | 0 | 110 | | | 0 | | | |
| 1,3-Dichlorobenzene | 52.54 | 0.912 | 50 | 0 | 105 | | | 0 | | | |
| 1,3-Dichloropropane | 50.64 | 0.916 | 50 | 0 | 101 | | | 0 | | | |
| 1,4-Dichlorobenzene | 51.42 | 1.06 | 50 | 0 | 103 | | | 0 | | | |
| 2,2-Dichloropropane | 45.14 | 1.05 | 50 | 0 | 90.3 | | | 0 | | | |
| 2-Butanone | 49.51 | 4.53 | 50 | 0 | 99 | | | 0 | | | |
| 2-Chloroethyl vinyl ether | 47.09 | 1.34 | 50 | 0 | 94.2 | | | 0 | | | |
| 2-Chlorotoluene | 54.56 | 0.711 | 50 | 0 | 109 | | | 0 | | | |
| 2-Hexanone | 51.44 | 2.24 | 50 | 0 | 103 | | | 0 | | | |
| 4-Chlorotoluene | 53.89 | 1.04 | 50 | 0 | 108 | | | 0 | | | |
| 4-Isopropyltoluene | 56.9 | 1.43 | 50 | 0 | 114 | | | 0 | | | |
| 4-Methyl-2-pentanone | 50.52 | 1.83 | 50 | 0 | 101 | | | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 56.27 | 8.88 | 50 | 0 | 113 | | | 0 | |
| Acrolein | 73.34 | 5.13 | 50 | 0 | 147 | | | 0 | |
| Acrylonitrile | 48.75 | 3.09 | 50 | 0 | 97.5 | | | 0 | |
| Allyl Chloride | 49.13 | 2.1 | 50 | 0 | 98.3 | | | 0 | |
| Benzene | 55.2 | 0.95 | 50 | 0 | 110 | | | 0 | |
| Bromobenzene | 51.08 | 1.31 | 50 | 0 | 102 | | | 0 | |
| Bromochloromethane | 47.24 | 0.996 | 50 | 0 | 94.5 | | | 0 | |
| Bromodichloromethane | 42.72 | 0.607 | 50 | 0 | 85.4 | | | 0 | |
| Bromoform | 43.1 | 1.5 | 50 | 0 | 86.2 | | | 0 | |
| Bromomethane | 53.12 | 7.34 | 50 | 0 | 106 | | | 0 | |
| Carbon disulfide | 48.73 | 1.2 | 50 | 0 | 97.5 | | | 0 | |
| Carbon tetrachloride | 20.38 | 1.15 | 50 | 0 | 40.8 | | | 0 | |
| Chlorobenzene | 49.97 | 1.08 | 50 | 0 | 99.9 | | | 0 | |
| Chloroethane | 54.35 | 12.1 | 50 | 0 | 109 | | | 0 | |
| Chloroform | 49.82 | 0.67 | 50 | 0 | 99.6 | 80 | 120 | 0 | |
| Chloromethane | 62.87 | 3.29 | 50 | 0 | 126 | | | 0 | |
| cis-1,2-Dichloroethene | 48.25 | 0.86 | 50 | 0 | 96.5 | | | 0 | |
| cis-1,3-Dichloropropene | 47.84 | 0.874 | 50 | 0 | 95.7 | | | 0 | |
| Dibromochloromethane | 46.54 | 1.03 | 50 | 0 | 93.1 | | | 0 | |
| Dibromomethane | 46.75 | 1.26 | 50 | 0 | 93.5 | | | 0 | |
| Dichlorodifluoromethane | 65.31 | 2.02 | 50 | 0 | 131 | | | 0 | |
| Ethyl methacrylate | 48.25 | 1.23 | 50 | 0 | 96.5 | | | 0 | |
| Ethylbenzene | 55.51 | 1.13 | 50 | 0 | 111 | 80 | 120 | 0 | |
| Hexachlorobutadiene | 52.91 | 1.92 | 50 | 0 | 106 | | | 0 | B |
| Hexachloroethane | 44.19 | 0.819 | 50 | 0 | 88.4 | | | 0 | |
| Iodomethane | 54.11 | 3.09 | 50 | 0 | 108 | | | 0 | |
| Isopropylbenzene | 55.72 | 0.61 | 50 | 0 | 111 | | | 0 | |
| m,p-Xylene | 109.8 | 2.56 | 50 | 0 | 220 | | | 0 | B |
| Methyl acrylate | 46.12 | 1.2 | 50 | 0 | 92.2 | | | 0 | |
| Methyl acrylonitrile | 50.1 | 1.85 | 50 | 0 | 100 | | | 0 | |
| Methyl methacrylate | 45.63 | 2.58 | 50 | 0 | 91.3 | | | 0 | |
| Methyl tert-butyl ether | 46.87 | 0.786 | 50 | 0 | 93.7 | | | 0 | |
| Methylene chloride | 48.98 | 1.18 | 50 | 0 | 98 | | | 0 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 59.63 | 1.17 | 50 | 0 | 119 | | | 0 |
| n-Propylbenzene | 58.38 | 0.999 | 50 | 0 | 117 | | | 0 |
| Naphthalene | 50.96 | 1.14 | 50 | 0 | 102 | | | 0 |
| o-Xylene | 53.96 | 1.64 | 50 | 0 | 108 | | | 0 |
| Pentachloroethane | 49.24 | 2.06 | 50 | 0 | 98.5 | | | 0 |
| sec-Butylbenzene | 58.91 | 0.655 | 50 | 0 | 118 | | | 0 |
| Styrene | 53.36 | 1.02 | 50 | 0 | 107 | | | 0 |
| tert-Butylbenzene | 54.67 | 0.758 | 50 | 0 | 109 | | | 0 |
| Tetrachloroethene | 55.68 | 2.41 | 50 | 0 | 111 | | | 0 |
| Tetrahydrofuran | 46.16 | 2.5 | 50 | 0 | 92.3 | | | 0 |
| Toluene | 48.99 | 1.15 | 50 | 0 | 98 | 80 | 120 | 0 |
| trans-1,2-Dichloroethene | 49.35 | 1.63 | 50 | 0 | 98.7 | | | 0 |
| trans-1,3-Dichloropropene | 46.38 | 1.05 | 50 | 0 | 92.8 | | | 0 |
| Trichloroethene | 47.98 | 1.55 | 50 | 0 | 96 | | | 0 |
| Trichlorofluoromethane | 50.71 | 1.01 | 50 | 0 | 101 | | | 0 |
| Vinyl acetate | 44.95 | 3 | 50 | 0 | 89.9 | | | 0 |
| Vinyl chloride | 54 | 1.27 | 50 | 0 | 108 | 80 | 120 | 0 |
| Surr: 4-Bromofluorobenzene | 51.64 | 0 | 50 | 0 | 103 | | | 0 |
| Surr: Dibromofluoromethane | 49.06 | 0 | 50 | 0 | 98.1 | | | 0 |
| Surr: Toluene-d8 | 49.13 | 0 | 50 | 0 | 98.3 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

Sample ID: **CCC** Batch ID: **R22157** Test Code: **SW8260B** Units: **µg/Kg** Analysis Date **12/20/02 7:55:00 PM** Prep Date:

Client ID: Run ID: **GCMS5_021220B** SeqNo: **342138**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 42.24 | 0.893 | 50 | 0 | 84.5 | | | 0 | | | |
| 1,1,1-Trichloroethane | 42.05 | 0.666 | 50 | 0 | 84.1 | | | 0 | | | |
| 1,1,2,2-Tetrachloroethane | 37.19 | 0.992 | 50 | 0 | 74.4 | | | 0 | | | |
| 1,1,2-Trichloroethane | 42.55 | 2.08 | 50 | 0 | 85.1 | | | 0 | | | |
| 1,1-Dichloroethane | 43.13 | 0.719 | 50 | 0 | 86.3 | | | 0 | | | |
| 1,1-Dichloroethene | 45.26 | 1.54 | 50 | 0 | 90.5 | 80 | 120 | 0 | | | |
| 1,1-Dichloropropene | 39.89 | 1.68 | 50 | 0 | 79.8 | | | 0 | | | |
| 1,2,3-Trichlorobenzene | 28.61 | 2.35 | 50 | 0 | 57.2 | | | 0 | | | |
| 1,2,3-Trichloropropane | 35.15 | 0.725 | 50 | 0 | 70.3 | | | 0 | | | |
| 1,2,4-Trichlorobenzene | 38.64 | 2.92 | 50 | 0 | 77.3 | | | 0 | | | |
| 1,2,4-Trimethylbenzene | 42.86 | 1.33 | 50 | 0 | 85.7 | | | 0 | | | |
| 1,2-Dibromo-3-chloropropane | 31.41 | 3.01 | 50 | 0 | 62.8 | | | 0 | | | |
| 1,2-Dibromoethane | 46.52 | 0.99 | 50 | 0 | 93 | | | 0 | | | |
| 1,2-Dichlorobenzene | 38.37 | 0.903 | 50 | 0 | 76.7 | | | 0 | | | |
| 1,2-Dichloroethane | 41.04 | 0.876 | 50 | 0 | 82.1 | | | 0 | | | |
| 1,2-Dichloropropane | 40.78 | 1.35 | 50 | 0 | 81.6 | 80 | 120 | 0 | | | |
| 1,3,5-Trimethylbenzene | 39.65 | 0.76 | 50 | 0 | 79.3 | | | 0 | | | |
| 1,3-Dichlorobenzene | 43.28 | 0.912 | 50 | 0 | 86.6 | | | 0 | | | |
| 1,3-Dichloropropane | 39.13 | 0.916 | 50 | 0 | 78.3 | | | 0 | | | |
| 1,4-Dichlorobenzene | 42.72 | 1.06 | 50 | 0 | 85.4 | | | 0 | | | |
| 2,2-Dichloropropane | 35.06 | 1.05 | 50 | 0 | 70.1 | | | 0 | | | |
| 2-Butanone | 38.37 | 4.53 | 50 | 0 | 76.7 | | | 0 | | | |
| 2-Chloroethyl vinyl ether | 18 | 1.34 | 50 | 0 | 36 | | | 0 | | | |
| 2-Chlorotoluene | 38.3 | 0.711 | 50 | 0 | 76.6 | | | 0 | | | |
| 2-Hexanone | 34.29 | 2.24 | 50 | 0 | 68.6 | | | 0 | | | |
| 4-Chlorotoluene | 39.11 | 1.04 | 50 | 0 | 78.2 | | | 0 | | | |
| 4-Isopropyltoluene | 39.43 | 1.43 | 50 | 0 | 78.9 | | | 0 | | | |
| 4-Methyl-2-pentanone | 37.25 | 1.83 | 50 | 0 | 74.5 | | | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 48.64 | 8.88 | 50 | 0 | 97.3 | | | 0 | |
| Acrolein | 42.31 | 5.13 | 50 | 0 | 84.6 | | | 0 | |
| Acrylonitrile | 41.22 | 3.09 | 50 | 0 | 82.4 | | | 0 | |
| Allyl Chloride | 50.78 | 2.1 | 50 | 0 | 102 | | | 0 | |
| Benzene | 39.94 | 0.95 | 50 | 0 | 79.9 | | | 0 | |
| Bromobenzene | 39.59 | 1.31 | 50 | 0 | 79.2 | | | 0 | |
| Bromochloromethane | 41.69 | 0.996 | 50 | 0 | 83.4 | | | 0 | |
| Bromodichloromethane | 42.44 | 0.607 | 50 | 0 | 84.9 | | | 0 | |
| Bromoform | 33.15 | 1.5 | 50 | 0 | 66.3 | | | 0 | |
| Bromomethane | 55.84 | 7.34 | 50 | 0 | 112 | | | 0 | |
| Carbon disulfide | 54.89 | 1.2 | 50 | 0 | 110 | | | 0 | |
| Carbon tetrachloride | 38.57 | 1.15 | 50 | 0 | 77.1 | | | 0 | |
| Chlorobenzene | 39.82 | 1.08 | 50 | 0 | 79.6 | | | 0 | |
| Chloroethane | 63.42 | 12.1 | 50 | 0 | 127 | | | 0 | |
| Chloroform | 44.04 | 0.67 | 50 | 0 | 88.1 | 80 | 120 | 0 | |
| Chloromethane | 51.29 | 3.29 | 50 | 0 | 103 | | | 0 | |
| cis-1,2-Dichloroethene | 43.9 | 0.86 | 50 | 0 | 87.8 | | | 0 | |
| cis-1,3-Dichloropropene | 41.45 | 0.874 | 50 | 0 | 82.9 | | | 0 | |
| Dibromochloromethane | 37.82 | 1.03 | 50 | 0 | 75.6 | | | 0 | |
| Dibromomethane | 41.74 | 1.26 | 50 | 0 | 83.5 | | | 0 | |
| Dichlorodifluoromethane | 45.49 | 2.02 | 50 | 0 | 91 | | | 0 | |
| Ethyl methacrylate | 40.58 | 1.23 | 50 | 0 | 81.2 | | | 0 | |
| Ethylbenzene | 38.44 | 1.13 | 50 | 0 | 76.9 | 80 | 120 | 0 | S |
| Hexachlorobutadiene | 38.19 | 1.92 | 50 | 0 | 76.4 | | | 0 | |
| Hexachloroethane | 38.91 | 0.819 | 50 | 0 | 77.8 | | | 0 | |
| Iodomethane | 69.9 | 3.09 | 50 | 0 | 140 | | | 0 | |
| Isopropylbenzene | 39.51 | 0.61 | 50 | 0 | 79 | | | 0 | |
| m,p-Xylene | 77.59 | 2.56 | 50 | 0 | 155 | | | 0 | |
| Methyl acrylate | 38.08 | 1.2 | 50 | 0 | 76.2 | | | 0 | |
| Methyl acrylonitrile | 40.24 | 1.85 | 50 | 0 | 80.5 | | | 0 | |
| Methyl methacrylate | 37.39 | 2.58 | 50 | 0 | 74.8 | | | 0 | |
| Methyl tert-butyl ether | 33.03 | 0.786 | 50 | 0 | 66.1 | | | 0 | |
| Methylene chloride | 36.96 | 1.18 | 50 | 0 | 73.9 | | | 0 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | 39.34 | 1.17 | 50 | 0 | 78.7 | | | 0 |
| n-Propylbenzene | 39.5 | 0.999 | 50 | 0 | 79 | | | 0 |
| Naphthalene | 34.31 | 1.14 | 50 | 0 | 68.6 | | | 0 |
| o-Xylene | 41.06 | 1.64 | 50 | 0 | 82.1 | | | 0 |
| Pentachloroethane | 40.1 | 2.06 | 50 | 0 | 80.2 | | | 0 |
| sec-Butylbenzene | 39.55 | 0.655 | 50 | 0 | 79.1 | | | 0 |
| Styrene | 41.68 | 1.02 | 50 | 0 | 83.4 | | | 0 |
| tert-Butylbenzene | 40.24 | 0.758 | 50 | 0 | 80.5 | | | 0 |
| Tetrachloroethene | 36.74 | 2.41 | 50 | 0 | 73.5 | | | 0 |
| Tetrahydrofuran | 42.72 | 2.5 | 50 | 0 | 85.4 | | | 0 |
| Toluene | 43.55 | 1.15 | 50 | 0 | 87.1 | 80 | 120 | 0 |
| trans-1,2-Dichloroethene | 43.57 | 1.63 | 50 | 0 | 87.1 | | | 0 |
| trans-1,3-Dichloropropene | 36.95 | 1.05 | 50 | 0 | 73.9 | | | 0 |
| Trichloroethene | 38.92 | 1.55 | 50 | 0 | 77.8 | | | 0 |
| Trichlorofluoromethane | 56.08 | 1.01 | 50 | 0 | 112 | | | 0 |
| Vinyl acetate | 37.54 | 3 | 50 | 0 | 75.1 | | | 0 |
| Vinyl chloride | 57.25 | 1.27 | 50 | 0 | 114 | 80 | 120 | 0 |
| Surr: 4-Bromofluorobenzene | 57.02 | 0 | 50 | 0 | 114 | | | 0 |
| Surr: Dibromofluoromethane | 55.94 | 0 | 50 | 0 | 112 | | | 0 |
| Surr: Toluene-d8 | 55.57 | 0 | 50 | 0 | 111 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

Sample ID: **SVOA CCV 80p** Batch ID: **R22096** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/27/02 12:35:00 PM** Prep Date:

Client ID: Run ID: **SV_1_021227A** SeqNo: **341293**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | 88.49 | 256 | 80 | 0 | 111 | | | 0 | | | |
| 1,2-Dichlorobenzene | 82.09 | 471 | 80 | 0 | 103 | | | 0 | | | |
| 1,3-Dichlorobenzene | 77.83 | 243 | 80 | 0 | 97.3 | | | 0 | | | |
| 1,4-Dichlorobenzene | 85.27 | 221 | 80 | 0 | 107 | 80 | 120 | 0 | | | |
| 2,4,5-Trichlorophenol | 92.79 | 181 | 80 | 0 | 116 | | | 0 | | | |
| 2,4,6-Trichlorophenol | 90.87 | 190 | 80 | 0 | 114 | 80 | 120 | 0 | | | |
| 2,4-Dichlorophenol | 86.01 | 193 | 80 | 0 | 108 | 80 | 120 | 0 | | | |
| 2,4-Dimethylphenol | 70.96 | 222 | 80 | 0 | 88.7 | | | 0 | | | |
| 2,4-Dinitrophenol | 82.33 | 152 | 80 | 0 | 103 | | | 0 | | | |
| 2,4-Dinitrotoluene | 82.7 | 108 | 80 | 0 | 103 | | | 0 | | | |
| 2,6-Dinitrotoluene | 78.63 | 211 | 80 | 0 | 98.3 | | | 0 | | | |
| 2-Chloronaphthalene | 82.83 | 142 | 80 | 0 | 104 | | | 0 | | | |
| 2-Chlorophenol | 84.82 | 495 | 80 | 0 | 106 | | | 0 | | | |
| 2-Methylnaphthalene | 86.51 | 189 | 80 | 0 | 108 | | | 0 | | | |
| 2-Nitroaniline | 81.72 | 95.1 | 80 | 0 | 102 | | | 0 | | | |
| 2-Nitrophenol | 80.53 | 128 | 80 | 0 | 101 | 80 | 120 | 0 | | | |
| 3,3-Dichlorobenzidine | 80.08 | 176 | 80 | 0 | 100 | | | 0 | | | |
| 3-Nitroaniline | 85.1 | 118 | 80 | 0 | 106 | | | 0 | | | |
| 4,6-Dinitro-2-methylphenol | 79.18 | 107 | 80 | 0 | 99 | | | 0 | | | |
| 4-Bromophenyl phenyl ether | 92.79 | 74.4 | 80 | 0 | 116 | | | 0 | | | |
| 4-Chloro-3-methylphenol | 93.05 | 277 | 80 | 0 | 116 | 80 | 120 | 0 | | | |
| 4-Chloroaniline | 78.74 | 106 | 80 | 0 | 98.4 | | | 0 | | | |
| 4-Chlorophenyl phenyl ether | 89.67 | 82.8 | 80 | 0 | 112 | | | 0 | | | |
| 4-Nitroaniline | 70.08 | 149 | 80 | 0 | 87.6 | | | 0 | | | |
| 4-Nitrophenol | 104.3 | 108 | 80 | 0 | 130 | | | 0 | | | |
| Acenaphthene | 85.73 | 121 | 80 | 0 | 107 | 80 | 120 | 0 | | | |
| Acenaphthylene | 84.5 | 162 | 80 | 0 | 106 | | | 0 | | | |
| Anthracene | 77.14 | 142 | 80 | 0 | 96.4 | | | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Azobenzene | 89.66 | 101 | 80 | 0 | 112 | | | 0 |
| Benzidine | 70.81 | 138 | 80 | 0 | 88.5 | | | 0 |
| Benzo(a)anthracene | 79.63 | 157 | 80 | 0 | 99.5 | | | 0 |
| Benzo(a)pyrene | 80.12 | 153 | 80 | 0 | 100 | 80 | 120 | 0 |
| Benzo(b)fluoranthene | 78.01 | 137 | 80 | 0 | 97.5 | | | 0 |
| Benzo(g,h,i)perylene | 97.65 | 207 | 80 | 0 | 122 | | | 0 |
| Benzo(k)fluoranthene | 76.78 | 136 | 80 | 0 | 96 | | | 0 |
| Benzoic acid | 88.75 | 136 | 80 | 0 | 111 | | | 0 |
| Benzyl alcohol | 78.38 | 147 | 80 | 0 | 98 | | | 0 |
| Bis(2-chloroethoxy)methane | 81.6 | 239 | 80 | 0 | 102 | | | 0 |
| Bis(2-chloroethyl)ether | 82.05 | 429 | 80 | 0 | 103 | | | 0 |
| Bis(2-chloroisopropyl)ether | 82.66 | 429 | 80 | 0 | 103 | | | 0 |
| Bis(2-ethylhexyl)phthalate | 77.84 | 753 | 80 | 0 | 97.3 | | | 0 |
| Butyl benzyl phthalate | 74.71 | 215 | 80 | 0 | 93.4 | | | 0 |
| Carbazole | 67.91 | 1980 | 0 | 0 | 0 | | | 0 |
| Chrysene | 76.96 | 199 | 80 | 0 | 96.2 | | | 0 |
| Di-n-butyl phthalate | 84.07 | 241 | 80 | 0 | 105 | | | 0 |
| Di-n-octyl phthalate | 71.76 | 136 | 80 | 0 | 89.7 | 80 | 120 | 0 |
| Dibenzo(a,h)anthracene | 85.99 | 247 | 80 | 0 | 107 | | | 0 |
| Dibenzofuran | 85.19 | 93 | 80 | 0 | 106 | | | 0 |
| Diethyl phthalate | 89.91 | 113 | 80 | 0 | 112 | | | 0 |
| Dimethyl phthalate | 82.68 | 151 | 80 | 0 | 103 | | | 0 |
| Fluoranthene | 84.55 | 173 | 80 | 0 | 106 | 80 | 120 | 0 |
| Fluorene | 89.49 | 148 | 80 | 0 | 112 | | | 0 |
| Hexachlorobenzene | 91.36 | 107 | 80 | 0 | 114 | | | 0 |
| Hexachlorobutadiene | 95.85 | 273 | 80 | 0 | 120 | 80 | 120 | 0 |
| Hexachlorocyclopentadiene | 102.8 | 248 | 80 | 0 | 128 | | | 0 |
| Hexachloroethane | 96.41 | 291 | 80 | 0 | 121 | | | 0 |
| Indeno(1,2,3-cd)pyrene | 91.77 | 200 | 80 | 0 | 115 | | | 0 |
| Isophorone | 81.23 | 128 | 80 | 0 | 102 | | | 0 |
| m,p-Cresol | 87.25 | 555 | 80 | 0 | 109 | | | 0 |
| N-Nitrosodi-n-propylamine | 78.47 | 245 | 80 | 0 | 98.1 | | | 0 |
| N-Nitrosodimethylamine | 68.36 | 130 | 80 | 0 | 85.4 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| N-Nitrosodiphenylamine | 81 | 118 | 80 | 0 | 101 | 80 | 120 | 0 |
| Naphthalene | 88.15 | 411 | 80 | 0 | 110 | | | 0 |
| Nitrobenzene | 87.73 | 321 | 80 | 0 | 110 | | | 0 |
| o-Cresol | 80.43 | 165 | 80 | 0 | 101 | | | 0 |
| Pentachlorophenol | 93.28 | 109 | 80 | 0 | 117 | 80 | 120 | 0 |
| Phenanthrene | 81.06 | 134 | 80 | 0 | 101 | | | 0 |
| Phenol | 79.83 | 115 | 80 | 0 | 99.8 | 80 | 120 | 0 |
| Pyrene | 72.7 | 124 | 80 | 0 | 90.9 | | | 0 |
| Pyridine | 68.58 | 246 | 80 | 0 | 85.7 | | | 0 |
| Surr: 2,4,6-Tribromophenol | 102.2 | 0 | 80 | 0 | 128 | | | 0 |
| Surr: 2-Fluorobiphenyl | 85.45 | 0 | 80 | 0 | 107 | | | 0 |
| Surr: 2-Fluorophenol | 78.25 | 0 | 80 | 0 | 97.8 | | | 0 |
| Surr: 4-Terphenyl-d14 | 76.99 | 0 | 80 | 0 | 96.2 | | | 0 |
| Surr: Nitrobenzene-d5 | 84.56 | 0 | 80 | 0 | 106 | | | 0 |
| Surr: Phenol-d5 | 89.66 | 0 | 80 | 0 | 112 | | | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT
## Continuing Calibration Verification Standard

Sample ID: **CCV 250 1-5** Batch ID: **R22085** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/24/02 10:53:00 AM** Prep Date:

Client ID: Run ID: **SV_3_021224A** SeqNo: **340821**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 259.2 | 120 | 250 | 0 | 104 | 80 | 120 | 0 | | | |
| Acenaphthylene | 267.1 | 120 | 250 | 0 | 107 | 80 | 120 | 0 | | | |
| Anthracene | 242.6 | 120 | 250 | 0 | 97 | 80 | 120 | 0 | | | |
| Benzo(a)anthracene | 269.9 | 120 | 250 | 0 | 108 | 80 | 120 | 0 | | | |
| Benzo(a)pyrene | 228.2 | 120 | 250 | 0 | 91.3 | 80 | 120 | 0 | | | |
| Benzo(b)fluoranthene | 269.6 | 120 | 250 | 0 | 108 | 80 | 120 | 0 | | | |
| Benzo(g,h,i)perylene | 215.8 | 120 | 250 | 0 | 86.3 | 80 | 120 | 0 | | | |
| Benzo(k)fluoranthene | 202.6 | 120 | 250 | 0 | 81.1 | 80 | 120 | 0 | | | |
| Chrysene | 236.5 | 120 | 250 | 0 | 94.6 | 80 | 120 | 0 | | | |
| Dibenzo(a,h)anthracene | 212.3 | 120 | 250 | 0 | 84.9 | 80 | 120 | 0 | | | |
| Fluoranthene | 262.7 | 120 | 250 | 0 | 105 | 80 | 120 | 0 | | | |
| Fluorene | 252 | 120 | 250 | 0 | 101 | 80 | 120 | 0 | | | |
| Hexachlorobenzene | 270.1 | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 200.4 | 120 | 250 | 0 | 80.2 | 80 | 120 | 0 | | | |
| Naphthalene | 240.4 | 120 | 250 | 0 | 96.2 | 80 | 120 | 0 | | | |
| Phenanthrene | 281.1 | 120 | 250 | 0 | 112 | 80 | 120 | 0 | | | |
| Pyrene | 250.8 | 120 | 250 | 0 | 100 | 80 | 120 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 273.4 | 0 | 250 | 0 | 109 | 80 | 120 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 259.9 | 0 | 250 | 0 | 104 | 80 | 120 | 0 | | | |
| Surr: Nitrobenzene-d5 | 272.7 | 0 | 250 | 0 | 109 | 80 | 120 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

Sample ID: **CCV 250 1-5** Batch ID: **R22100** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/26/02 5:21:00 PM** Prep Date:

Client ID: Run ID: **SV_3_021226A** SeqNo: **341342**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 249.9 | 120 | 250 | 0 | 100 | 80 | 120 | 0 | | | |
| Acenaphthylene | 266.3 | 120 | 250 | 0 | 107 | 80 | 120 | 0 | | | |
| Anthracene | 243.5 | 120 | 250 | 0 | 97.4 | 80 | 120 | 0 | | | |
| Benzo(a)anthracene | 281.5 | 120 | 250 | 0 | 113 | 80 | 120 | 0 | | | |
| Benzo(a)pyrene | 244.6 | 120 | 250 | 0 | 97.8 | 80 | 120 | 0 | | | |
| Benzo(b)fluoranthene | 258.3 | 120 | 250 | 0 | 103 | 80 | 120 | 0 | | | |
| Benzo(g,h,i)perylene | 249.4 | 120 | 250 | 0 | 99.8 | 80 | 120 | 0 | | | |
| Benzo(k)fluoranthene | 221.3 | 120 | 250 | 0 | 88.5 | 80 | 120 | 0 | | | |
| Chrysene | 215.4 | 120 | 250 | 0 | 86.2 | 80 | 120 | 0 | | | |
| Dibenzo(a,h)anthracene | 249.7 | 120 | 250 | 0 | 99.9 | 80 | 120 | 0 | | | |
| Fluoranthene | 284.4 | 120 | 250 | 0 | 114 | 80 | 120 | 0 | | | |
| Fluorene | 260.9 | 120 | 250 | 0 | 104 | 80 | 120 | 0 | | | |
| Hexachlorobenzene | 271 | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 232.1 | 120 | 250 | 0 | 92.9 | 80 | 120 | 0 | | | |
| Naphthalene | 233.1 | 120 | 250 | 0 | 93.2 | 80 | 120 | 0 | | | |
| Phenanthrene | 277.2 | 120 | 250 | 0 | 111 | 80 | 120 | 0 | | | |
| Pyrene | 222.1 | 120 | 250 | 0 | 88.8 | 80 | 120 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 260.4 | 0 | 250 | 0 | 104 | 80 | 120 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 253.4 | 0 | 250 | 0 | 101 | 80 | 120 | 0 | | | |
| Surr: Nitrobenzene-d5 | 276.1 | 0 | 250 | 0 | 110 | 80 | 120 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120794
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Continuing Calibration Verification Standard

Sample ID: **CCV 250 1-5** Batch ID: **R22105** Test Code: **SW8270C** Units: **µg/Kg** Analysis Date **12/27/02 3:48:00 PM** Prep Date:

Client ID: Run ID: **SV_3_021227A** SeqNo: **341385**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 252 | 120 | 250 | 0 | 101 | 80 | 120 | 0 | | | |
| Acenaphthylene | 281.9 | 120 | 250 | 0 | 113 | 80 | 120 | 0 | | | |
| Anthracene | 253.7 | 120 | 250 | 0 | 101 | 80 | 120 | 0 | | | |
| Benzo(a)anthracene | 286.9 | 120 | 250 | 0 | 115 | 80 | 120 | 0 | | | |
| Benzo(a)pyrene | 247.4 | 120 | 250 | 0 | 98.9 | 80 | 120 | 0 | | | |
| Benzo(b)fluoranthene | 266.4 | 120 | 250 | 0 | 107 | 80 | 120 | 0 | | | |
| Benzo(g,h,i)perylene | 220.1 | 120 | 250 | 0 | 88.1 | 80 | 120 | 0 | | | |
| Benzo(k)fluoranthene | 222.7 | 120 | 250 | 0 | 89.1 | 80 | 120 | 0 | | | |
| Chrysene | 222 | 120 | 250 | 0 | 88.8 | 80 | 120 | 0 | | | |
| Dibenzo(a,h)anthracene | 228 | 120 | 250 | 0 | 91.2 | 80 | 120 | 0 | | | |
| Fluoranthene | 280.8 | 120 | 250 | 0 | 112 | 80 | 120 | 0 | | | |
| Fluorene | 260.7 | 120 | 250 | 0 | 104 | 80 | 120 | 0 | | | |
| Hexachlorobenzene | 269 | 120 | 0 | 0 | 0 | 80 | 120 | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 210.4 | 120 | 250 | 0 | 84.2 | 80 | 120 | 0 | | | |
| Naphthalene | 228.6 | 120 | 250 | 0 | 91.5 | 80 | 120 | 0 | | | |
| Phenanthrene | 275.7 | 120 | 250 | 0 | 110 | 80 | 120 | 0 | | | |
| Pyrene | 251.3 | 120 | 250 | 0 | 101 | 80 | 120 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 257.2 | 0 | 250 | 0 | 103 | 80 | 120 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 267.7 | 0 | 250 | 0 | 107 | 80 | 120 | 0 | | | |
| Surr: Nitrobenzene-d5 | 300.5 | 0 | 250 | 0 | 120 | 80 | 120 | 0 | | | S |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:**
**Work Order:**
**Project:**

# QC SUMMARY REPORT

#Error

# START Project
# Project Name: 76th and Parnell
# Lab Order# 02120843
# Data Validation

Wednesday, January 29, 2003

**Suburban Laboratories, Inc.**

**Metals (by ICP) Lead Method SW6010B:**

1. **Samples:**

| Client Sample ID | Lab ID | Matrix | Date Collected | Date Digested | Date Analyzed |
|---|---|---|---|---|---|
| SS-101 | 02120843-01 | Soil | 12/19/02 | 12/23/02 | 12/26/02 |
| SS-102 | 02120843-02 | Soil | 12/19/02 | 12/23/02 | 12/26/02 |
| SS-103 | 02120843-03 | Soil | 12/19/02 | 12/23/02 | 12/26/02 |
| SS-104 | 02120843-04 | Soil | 12/19/02 | 12/23/02 | 12/26/02 |
| SS-105 | 02120843-05 | Soil | 12/19/02 | 12/23/02 | 12/26/02 |
| SS-106 | 02120843-06 | Soil | 12/19/02 | 12/23/02 | 12/26/02 |
| SS-114 | 02120843-07 | Soil | 12/19/02 | 12/23/02 | 12/26/02 |
| SS-115 | 02120843-08 | Soil | 12/19/02 | 12/23/02 | 12/26/02 |
| SS-116 | 02120843-09 | Soil | 12/19/02 | 12/23/02 | 12/26/02 |
| SS-117 | 02120843-10 | Soil | 12/19/02 | 12/23/02 | 12/26/02 |
| SS-118 | 02120843-11 | Soil | 12/19/02 | 12/23/02 | 12/26/02 |
| SS-119 | 02120843-12 | Soil | 12/19/02 | 12/23/02 | 12/26/02 |
| SS-107 | 02120843-13 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |
| SS-108 | 02120843-14 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |
| SS-108 DUP | 02120843-15 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |
| SS-109 | 02120843-16 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |
| SS-110 | 02120843-17 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |
| SS-111 | 02120843-18 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |
| SS-112 | 02120843-19 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |
| SS-112 DUP | 02120843-20 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |
| SS-113 | 02120843-21 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |
| SS-120 | 02120843-22 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |
| SS-121 | 02120843-23 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |
| SS-122 | 02120843-24 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |
| SS-123 | 02120843-25 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |
| SS-124 | 02120843-26 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |
| SS-125 | 02120843-27 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |
| SS-130 | 02120843-28 | Soil | 12/20/02 | 12/23/02 | 12/26/02 |

**TCLP Lead by SW1311/6010B:**

2. **Samples:**

| Client Sample ID | Lab ID | Matrix | Date Collected | Date/Prep Leached | Date Analyzed |
|---|---|---|---|---|---|
| SB-118 | 02120843-11 | Soil | 12/19/02 | 12/31,01/03/03 | 01/07/03 |
| SB-107 | 02120843-13 | Soil | 12/19/02 | 12/31,01/03/03 | 01/07/03 |
| SB-111 | 02120843-18 | Soil | 12/20/02 | 01/07,01/08/03 | 01/09/03 |
| SB-122 | 02120843-24 | Soil | 12/20/02 | 01/07,01/08/03 | 01/09/03 |

# START Project
# Project Name: 76th and Parnell
# Lab Order# 02120843
# Data Validation

Wednesday, January 29, 2003

The laboratory did not submit the batch number that associated with the samples. Therefore, the validation report depended on the sample analysis date.

3. **Holding Time:**
   The samples were digested and analyzed within the required holding time.

4. **Method Blank:**
   The two associated method blanks MB-7662, and 7663 were prepared on 12/23/02 and analyzed on 12/26/02 for Total (Pb). MB-7662, and 7663 results were free of contamination.

   The objective of blank analysis is to determine the existence and magnitude of contamination resulting from laboratory activities. However, the laboratory did not associate any QC (LMB, and LSC) with these TCLP lead samples analysis. Therefore, qualify the results in (02120843-11, -13, -18, and –24) as (J/UJ).

5. **Matrix Spike:**
   The matrix spike/matrix spike duplicate was performed on 02120843-24. The MS/MSD recoveries were within the quality control limit. Also, the RPD% values were acceptable.

6. **Laboratory Control Sample:**
   The two associated laboratories control sample with total (Pb) LCS-7662, and LCS- 7663 recoveries were within the quality control limit.

   No (TCLP LCS) was associated with TCLP lead samples. Therefore, qualify the results in (02120843-11, -13, -18, and –24) as (J/UJ).

Data Reviewed By: Tania Balikji-Shammo Data: 02/03/03

# SUBURBAN LABORATORIES, Inc.

4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587


ACCREDITED IN ACCORDANCE WITH nelac

January 09, 2003

RECEIVED
JAN 13 2003

Rick Mehl
Weston Solutions, Inc.
750 East Bunker Court
Suite 500
Vernon Hills, Illinois 60061
Tel: (847) 918-4000
Fax: (847) 918-4055

Project Name: 76th & Parnell

Lab Order # **02120843**

Dear Rick Mehl,

Suburban Laboratories, Inc. received 28 samples on 12/20/02 3:00:00 PM for the analyses presented in the following report.

There were no problems with the analyses and all the data for the associated QC met EPA or laboratory specifications except where noted in the case narrative.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call your customer service representative at (708) 544-3260.

Sincerely,

Mike Chung
Data Review Manager

CC:

# SUBURBAN LABORATORIES, Inc.

4140 Litt Drive · Hillside, Illinois 60162-1183
Tel. (708) 544-3260 · Toll Free (800) 783-LABS · Fax (708) 544-8587


ACCREDITED IN ACCORDANCE WITH nelac

**CLIENT:** Weston Solutions, Inc.
**Project:** 76th & Parnell
**Lab Order #** *02120843*

## CASE NARRATIVE

**Date:** *Thursday, January 09, 2003*

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of Part 186 unless otherwise indicated.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated. For more information about the laboratories' scope of accreditation, please contact Suburban or the Agency.
- MDL: Method Detection Limit. The minimum concentration of an analyte that can be measured and reported with a 99% confidence that analyte is greater than zero.
- PQL: Practical Quantitation Limit. The lowest concentration that can be reliably achieved within specified requirements of precision and accuracy during routine laboratory operating conditions. The PQL is generally 3 times the MDL.
- DF: Dilution Factor

Data Qualifiers:
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ: The analyte was not detected above the reported detection limit. However, the reported limits approximate and may or may not represent the actual limits of detection and quantitation necessary to accurately and precisely measure the analyte in the sample.
I: Result is Invalid; CS: Compound Screened; TNTC: Too Numerous to Count

Method References:
E: USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40CFR136 App A; Methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water
SW: USEPA, Test Methods for Evaluating Solid Waste, SW-846, 3rd Ed, includes Updates I-III
M: APHA, Standard Methods for the Examination of Water and Wastewater, 18th & 19th Ed.
D: ASTM, Annual Book of Standards F: NAS, Food Chemicals Codex (FCC), 4th Edition
B: US FDA Bacteriological Analytical Manual (BAM) 8th Edition, 1995
USP: US Pharmacopoeia, 24th Revision, 2000

Project Specific Comments:

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 09, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120843*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120843-01 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/19/02 1:23:00 PM
**Client Sample ID:** SS-101 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 88.1 | | 0.50 | 1.5 | mg/Kg | 1 | 12/26/02 8:57 am |

**Lab Sample ID:** 02120843-02 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/19/02 1:28:00 PM
**Client Sample ID:** SS-102 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 290 | | 0.45 | 1.4 | mg/Kg | 1 | 12/26/02 9:01 am |

**Lab Sample ID:** 02120843-03 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/19/02 1:37:00 PM
**Client Sample ID:** SS-103 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 138 | | 0.48 | 1.4 | mg/Kg | 1 | 12/26/02 9:05 am |

**Lab Sample ID:** 02120843-04 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/19/02 1:41:00 PM
**Client Sample ID:** SS-104 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 823 | | 0.50 | 1.5 | mg/Kg | 1 | 12/26/02 9:09 am |

**Lab Sample ID:** 02120843-05 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/19/02 1:56:00 PM
**Client Sample ID:** SS-105 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 715 | | 0.50 | 1.5 | mg/Kg | 1 | 12/26/02 9:13 am |

**Lab Sample ID:** 02120843-06 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/19/02 2:08:00 PM
**Client Sample ID:** SS-106 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 470 | | 0.48 | 1.4 | mg/Kg | 1 | 12/26/02 9:17 am |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 09, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120843*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120843-07 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/19/02 12:38:00 PM
**Client Sample ID:** SS-114 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 149 | | 0.45 | 1.4 | mg/Kg | 1 | 12/26/02 9:21 am |

**Lab Sample ID:** 02120843-08 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/19/02 12:30:00 PM
**Client Sample ID:** SS-115 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 548 | | 0.38 | 1.2 | mg/Kg | 1 | 12/26/02 9:25 am |

**Lab Sample ID:** 02120843-09 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/19/02 12:35:00 PM
**Client Sample ID:** SS-116 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 119 | | 0.43 | 1.3 | mg/Kg | 1 | 12/26/02 9:29 am |

**Lab Sample ID:** 02120843-10 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/19/02 12:16:00 PM
**Client Sample ID:** SS-117 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 478 | | 0.50 | 1.5 | mg/Kg | 1 | 12/26/02 9:34 am |

**Lab Sample ID:** 02120843-11 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/19/02 12:21:00 PM
**Client Sample ID:** SS-118 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP, TCLP LEACHED** | | | Method: SW1311/6010B | | | | Analyst: RA |
| Lead | 6.9 | | 0.009 | 0.03 | mg/L | 1 | 1/7/03 12:38 am |
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 9,380 | | 50 | 150 | mg/Kg | 100 | 12/26/02 12:06 pm |

**Lab Sample ID:** 02120843-12 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/19/02 2:01:00 PM
**Client Sample ID:** SS-119 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 492 | | 0.50 | 1.5 | mg/Kg | 1 | 12/26/02 9:55 am |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - *Value exceeds Maximum Contaminant Level*
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - *Analysis run past method holding time*

MDL-Continuous

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 09, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120843*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120843-13 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 8:30:00 AM
**Client Sample ID:** SS-107 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP, TCLP LEACHED** | | | Method: SW1311/6010B | | | | Analyst: RA |
| Lead | 32 | | 0.009 | 0.03 | mg/L | 1 | 1/7/03 12:49 am |
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 14,300 | | 50 | 150 | mg/Kg | 100 | 12/26/02 12:10 pm |

**Lab Sample ID:** 02120843-14 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 8:39:00 AM
**Client Sample ID:** SS-108 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 523 | | 0.38 | 1.2 | mg/Kg | 1 | 12/26/02 10:03 am |

**Lab Sample ID:** 02120843-15 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 8:39:00 AM
**Client Sample ID:** SS-108 Dup **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 736 | | 0.45 | 1.4 | mg/Kg | 1 | 12/26/02 10:07 am |

**Lab Sample ID:** 02120843-16 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 8:47:00 AM
**Client Sample ID:** SS-109 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 285 | | 0.48 | 1.4 | mg/Kg | 1 | 12/26/02 10:11 am |

**Lab Sample ID:** 02120843-17 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 8:59:00 AM
**Client Sample ID:** SS-110 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 162 | | 0.38 | 1.2 | mg/Kg | 1 | 12/26/02 10:15 am |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 09, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120843*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120843-18 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 9:55:00 AM
**Client Sample ID:** SS-111 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP, TCLP LEACHED** | | | Method: SW1311/6010B | | | | Analyst: RA |
| Lead | 1.0 | | 0.009 | 0.03 | mg/L | 1 | 1/9/03 12:09 pm |
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 1,560 | | 48 | 140 | mg/Kg | 100 | 12/26/02 12:14 pm |

**Lab Sample ID:** 02120843-19 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 10:02:00 AM
**Client Sample ID:** SS-112 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 330 | | 0.50 | 1.5 | mg/Kg | 1 | 12/26/02 11:04 am |

**Lab Sample ID:** 02120843-20 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 10:02:00 AM
**Client Sample ID:** SS-112 Dup **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 538 | | 0.42 | 1.2 | mg/Kg | 1 | 12/26/02 11:08 am |

**Lab Sample ID:** 02120843-21 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 10:07:00 AM
**Client Sample ID:** SS-113 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 176 | | 0.50 | 1.5 | mg/Kg | 1 | 12/26/02 11:12 am |

**Lab Sample ID:** 02120843-22 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 10:26:00 AM
**Client Sample ID:** SS-120 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 200 | | 0.48 | 1.4 | mg/Kg | 1 | 12/26/02 11:16 am |

**Lab Sample ID:** 02120843-23 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 10:33:00 AM
**Client Sample ID:** SS-121 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 192 | | 0.50 | 1.5 | mg/Kg | 1 | 12/26/02 11:20 am |

**Qualifiers:**
ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

MDL-Continuous

**Suburban Laboratories, Inc.**
4140 Litt Drive Hillside, IL 60162 (708) 544-3260

**Date:** *Thursday, January 09, 2003*

**CLIENT:** Weston Solutions, Inc. **Lab Order #:** *02120843*
**Project:** 76th & Parnell

**Lab Sample ID:** 02120843-24 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 10:39:00 AM
**Client Sample ID:** SS-122 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP, TCLP LEACHED** | | | Method: SW1311/6010B | | | | Analyst: RA |
| Lead | 0.21 | | 0.009 | 0.03 | mg/L | 1 | 1/9/03 12:17 pm |
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 443 | | 0.50 | 1.5 | mg/Kg | 1 | 12/26/02 11:24 am |

**Lab Sample ID:** 02120843-25 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 10:47:00 AM
**Client Sample ID:** SS-123 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 730 | | 0.50 | 1.5 | mg/Kg | 1 | 12/26/02 11:28 am |

**Lab Sample ID:** 02120843-26 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 10:54:00 AM
**Client Sample ID:** SS-124 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 286 | | 0.42 | 1.2 | mg/Kg | 1 | 12/26/02 11:32 am |

**Lab Sample ID:** 02120843-27 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 11:00:00 AM
**Client Sample ID:** SS-125 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 418 | | 0.43 | 1.3 | mg/Kg | 1 | 12/26/02 11:36 am |

**Lab Sample ID:** 02120843-28 **Date Received:** 12/20/02 3:00:00 PM **Collection Date:** 12/20/02 11:07:00 AM
**Client Sample ID:** SS-130 **Matrix:** SOIL

| Analyses | Result | Qual | MDL | PQL | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|---|
| **METALS BY ICP** | | | Method: SW6010B | | | | Analyst: RA |
| Lead | 645 | | 0.42 | 1.2 | mg/Kg | 1 | 12/26/02 11:40 am |

**Qualifiers:**
MDL-Continuous

ND - Not Detected at the Method Detection Limit
J - Estimated or analyte detected below quantitation limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Analysis run past method holding time

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, IL 60162 (708) 544-3260

# PREP DATES REPORT

**CLIENT:** Weston Solutions, Inc.

**Project:** 76th & Parnell

**Lab Order:** *02120843*

**Date:** *Thursday, January 09, 2003*

| Lab Sample ID | Collection Date | Prep Method | Prep Name | Prep Date |
|---|---|---|---|---|
| 02120843-01A | 12/19/02 1:23 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| 02120843-02A | 12/19/02 1:28 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| 02120843-03A | 12/19/02 1:37 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| 02120843-04A | 12/19/02 1:41 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| 02120843-05A | 12/19/02 1:56 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| 02120843-06A | 12/19/02 2:08 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| 02120843-07A | 12/19/02 12:38 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| 02120843-08A | 12/19/02 12:30 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| 02120843-09A | 12/19/02 12:35 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| 02120843-10A | 12/19/02 12:16 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| 02120843-11A | 12/19/02 12:21 pm | SW3010A | AQUEOUS PREP TOTAL METALS: ICP | 1/3/03 8:11 am |
| | 12/19/02 12:21 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| | 12/19/02 12:21 pm | SW1311 | TCLP SAMPLE PREP (Metals) | 12/31/02 12:05 pm |
| 02120843-12A | 12/19/02 2:01 pm | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| 02120843-13A | 12/20/02 8:30 am | SW3010A | AQUEOUS PREP TOTAL METALS: ICP | 1/3/03 8:11 am |
| | 12/20/02 8:30 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| | 12/20/02 8:30 am | SW1311 | TCLP SAMPLE PREP (Metals) | 12/31/02 12:05 pm |
| 02120843-14A | 12/20/02 8:39 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| 02120843-15A | 12/20/02 8:39 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| 02120843-16A | 12/20/02 8:47 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| 02120843-17A | 12/20/02 8:59 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| 02120843-18A | 12/20/02 9:55 am | SW3010A | AQUEOUS PREP TOTAL METALS: ICP | 1/8/03 10:56 am |
| | 12/20/02 9:55 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:07 am |
| | 12/20/02 9:55 am | SW1311 | TCLP SAMPLE PREP (Metals) | 1/7/03 2:09 pm |
| 02120843-19A | 12/20/02 10:02 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:58 am |
| 02120843-20A | 12/20/02 10:02 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:58 am |
| 02120843-21A | 12/20/02 10:07 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:58 am |
| 02120843-22A | 12/20/02 10:26 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:58 am |
| 02120843-23A | 12/20/02 10:33 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:58 am |
| 02120843-24A | 12/20/02 10:39 am | SW3010A | AQUEOUS PREP TOTAL METALS: ICP | 1/8/03 10:56 am |
| | 12/20/02 10:39 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:58 am |
| | 12/20/02 10:39 am | SW1311 | TCLP SAMPLE PREP (Metals) | 1/7/03 2:09 pm |
| 02120843-25A | 12/20/02 10:47 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:58 am |
| 02120843-26A | 12/20/02 10:54 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:58 am |
| 02120843-27A | 12/20/02 11:00 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:58 am |
| 02120843-28A | 12/20/02 11:07 am | SW3050A | SOLID PREP TOTAL METALS: ICP | 12/23/02 10:58 am |

Suburban Laboratories, Inc.

**Date:** *10-Jan-03*

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120843
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Method Blank

Sample ID: **MB-7732** Batch ID: **7732** Test Code: **SW1311/6010** Units: **mg/L** Analysis Date **1/6/03 11:00:26 PM** Prep Date: **1/3/03**

Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **344194**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 0.06 | | | | | | | | | |
| Barium | ND | 0.03 | | | | | | | | | |
| Chromium | ND | 0.03 | | | | | | | | | |
| Copper | ND | 0.015 | | | | | | | | | |
| Iron | ND | 0.057 | | | | | | | | | |
| Lead | ND | 0.06 | | | | | | | | | |
| Manganese | ND | 0.03 | | | | | | | | | |
| Molybdenum | ND | 0.009 | | | | | | | | | |
| Nickel | ND | 0.015 | | | | | | | | | |
| Potassium | ND | 0.38 | | | | | | | | | |
| Selenium | 0.02514 | 0.06 | | | | | | | | | J |
| Silver | ND | 0.009 | | | | | | | | | |
| Zinc | ND | 0.03 | | | | | | | | | |

Sample ID: **MB-7761** Batch ID: **7761** Test Code: **SW1311/6010** Units: **mg/L** Analysis Date **1/9/03 11:26:23 AM** Prep Date: **1/8/03**

Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **345813**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 0.06 | | | | | | | | | |
| Barium | ND | 0.03 | | | | | | | | | |
| Cadmium | ND | 0.009 | | | | | | | | | |
| Chromium | ND | 0.03 | | | | | | | | | |
| Lead | ND | 0.06 | | | | | | | | | |
| Selenium | ND | 0.06 | | | | | | | | | |
| Silver | ND | 0.009 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120843
**Project:** 76th & Parnell

# QC SUMMARY REPORT

Method Blank

Sample ID: **MB-7662** Batch ID: **7662** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/26/02 8:50:31 AM** Prep Date: **12/23/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340243**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | ND | 0.75 | | | | | | | | | |
| Lead | ND | 1.5 | | | | | | | | | |

Sample ID: **MB-7663** Batch ID: **7663** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/26/02 10:57:14 AM** Prep Date: **12/23/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340356**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | ND | 1.5 | | | | | | | | | |

Sample ID: **MB-7663** Batch ID: **7663** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/26/02 4:14:52 PM** Prep Date: **12/23/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340744**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | ND | 0.75 | | | | | | | | | |
| Cadmium | ND | 0.225 | | | | | | | | | |
| Chromium | ND | 0.75 | | | | | | | | | |
| Lead | ND | 1.5 | | | | | | | | | |
| Nickel | ND | 0.375 | | | | | | | | | |
| Selenium | ND | 1.5 | | | | | | | | | |
| Silver | ND | 0.225 | | | | | | | | | |

Sample ID: **MB-7663** Batch ID: **7663** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/27/02 8:34:05 AM** Prep Date: **12/23/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **341064**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 1.5 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120843
**Project:** 76th & Parnell

# QC SUMMARY REPORT

Method Blank

Sample ID: **MB-7663** Batch ID: **7663** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **1/3/03 2:58:46 PM** Prep Date: **12/23/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **343409**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.5 | | | | | | | | | |
| Beryllium | ND | 0.375 | | | | | | | | | |
| Copper | ND | 0.375 | | | | | | | | | |
| Iron | ND | 3.75 | | | | | | | | | |
| Manganese | ND | 0.75 | | | | | | | | | |
| Molybdenum | ND | 0.75 | | | | | | | | | |
| Potassium | ND | 15 | | | | | | | | | |
| Thallium | 0.8222 | 1.5 | | | | | | | | | J |
| Zinc | ND | 0.75 | | | | | | | | | |

Sample ID: **MB-7663** Batch ID: **7663** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **1/7/03 3:13:51 PM** Prep Date: **12/23/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **344485**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Potassium | ND | 15 | | | | | | | | | |
| Zinc | ND | 0.75 | | | | | | | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Suburban Laboratories, Inc.

**Date:** *10-Jan-03*

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120843
**Project:** 76th & Parnell

# QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: **02120843-24Ams** Batch ID: **7761** Test Code: **SW1311/6010** Units: **mg/L** Analysis Date **1/9/03 12:33:49 PM** Prep Date: **1/8/03**

Client ID: **SS-122** Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **345818**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.225 | 0.06 | 1 | 0.2119 | 101 | 70 | 130 | 0 | | | |

Sample ID: **02120843-24Amsd** Batch ID: **7761** Test Code: **SW1311/6010** Units: **mg/L** Analysis Date **1/9/03 12:41:32 PM** Prep Date: **1/8/03**

Client ID: **SS-122** Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **345819**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 1.291 | 0.06 | 1 | 0.2119 | 108 | 70 | 130 | 1.225 | 5.23 | 20 | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Suburban Laboratories, Inc.

**Date:** *10-Jan-03*

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120843
**Project:** 76th & Parnell

# QC SUMMARY REPORT

Laboratory Control Spike - Generic

Sample ID: **LCS-7732** Batch ID: **7732** Test Code: **SW1311/6010** Units: **mg/L** Analysis Date **1/6/03 11:11:41 PM** Prep Date: **1/3/03**

Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **344195**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.9529 | 0.06 | 1 | 0 | 95.3 | 80 | 120 | 0 | | | |
| Barium | 0.957 | 0.03 | 1 | 0 | 95.7 | 80 | 120 | 0 | | | |
| Chromium | 0.9479 | 0.03 | 1 | 0 | 94.8 | 80 | 120 | 0 | | | |
| Copper | 0.9226 | 0.015 | 1 | 0 | 92.3 | 80 | 120 | 0 | | | |
| Iron | 0.969 | 0.057 | 1 | 0 | 96.9 | 80 | 120 | 0 | | | |
| Lead | 0.9458 | 0.06 | 1 | 0 | 94.6 | 80 | 120 | 0 | | | |
| Manganese | 0.9529 | 0.03 | 1 | 0 | 95.3 | 80 | 120 | 0 | | | |
| Molybdenum | 0.9494 | 0.009 | 1 | 0 | 94.9 | 80 | 120 | 0 | | | |
| Nickel | 0.928 | 0.015 | 1 | 0 | 92.8 | 80 | 120 | 0 | | | |
| Potassium | 9.281 | 0.38 | 10 | 0 | 92.8 | 80 | 120 | 0 | | | |
| Selenium | 0.864 | 0.06 | 1 | 0.02514 | 83.9 | 80 | 120 | 0 | | | |
| Silver | 0.7182 | 0.009 | 1 | 0 | 71.8 | 80 | 120 | 0 | | | S |
| Zinc | 0.9253 | 0.03 | 1 | 0 | 92.5 | 80 | 120 | 0 | | | |

Sample ID: **LCS-7761** Batch ID: **7761** Test Code: **SW1311/6010** Units: **mg/L** Analysis Date **1/9/03 11:33:48 AM** Prep Date: **1/8/03**

Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **345814**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 1.035 | 0.06 | 1 | 0 | 103 | 80 | 120 | 0 | | | |
| Barium | 1.001 | 0.03 | 1 | 0 | 100 | 80 | 120 | 0 | | | |
| Cadmium | 1.001 | 0.009 | 1 | 0 | 100 | 80 | 120 | 0 | | | |
| Chromium | 0.9845 | 0.03 | 1 | 0 | 98.4 | 80 | 120 | 0 | | | |
| Lead | 1.027 | 0.06 | 1 | 0 | 103 | 80 | 120 | 0 | | | |
| Selenium | 0.9299 | 0.06 | 1 | 0 | 93 | 80 | 120 | 0 | | | |
| Silver | 0.9445 | 0.009 | 1 | 0 | 94.5 | 80 | 120 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120843
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

Sample ID: **LCS-7662** Batch ID: **7662** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/26/02 8:53:19 AM** Prep Date: **12/23/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340244**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | 26.43 | 0.75 | 25 | 0 | 106 | 80 | 120 | 0 | | | |
| Lead | 26.91 | 1.5 | 25 | 0 | 108 | 80 | 120 | 0 | | | |

Sample ID: **LCS-7663** Batch ID: **7663** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/26/02 11:00:06 AM** Prep Date: **12/23/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340357**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 27.63 | 1.5 | 25 | 0 | 111 | 80 | 120 | 0 | | | |

Sample ID: **LCS-7663** Batch ID: **7663** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/26/02 4:22:49 PM** Prep Date: **12/23/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **340745**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium | 27.11 | 0.75 | 25 | 0 | 108 | 80 | 120 | 0 | | | |
| Cadmium | 27.28 | 0.225 | 25 | 0 | 109 | 80 | 120 | 0 | | | |
| Chromium | 27.43 | 0.75 | 25 | 0 | 110 | 80 | 120 | 0 | | | |
| Lead | 28.19 | 1.5 | 25 | 0 | 113 | 80 | 120 | 0 | | | |
| Nickel | 27.91 | 0.375 | 25 | 0 | 112 | 80 | 120 | 0 | | | |
| Selenium | 26.87 | 1.5 | 25 | 0 | 107 | 80 | 120 | 0 | | | |
| Silver | 22.26 | 0.225 | 25 | 0 | 89 | 80 | 120 | 0 | | | |

Sample ID: **LCS-7663** Batch ID: **7663** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **12/27/02 8:37:23 AM** Prep Date: **12/23/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **341065**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 23.56 | 1.5 | 25 | 0 | 94.3 | 80 | 120 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

**CLIENT:** Weston Solutions, Inc.
**Work Order:** 02120843
**Project:** 76th & Parnell

# QC SUMMARY REPORT

## Laboratory Control Spike - Generic

Sample ID: **LCS-7663** Batch ID: **7663** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **1/3/03 3:09:28 PM** Prep Date: **12/23/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **343410**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 26.85 | 1.5 | 25 | 0 | 107 | 80 | 120 | 0 | | | |
| Beryllium | 27.72 | 0.375 | 25 | 0 | 111 | 80 | 120 | 0 | | | |
| Copper | 26.07 | 0.375 | 25 | 0 | 104 | 80 | 120 | 0 | | | |
| Iron | 29.34 | 3.75 | 25 | 0 | 117 | 80 | 120 | 0 | | | |
| Manganese | 28.04 | 0.75 | 25 | 0 | 112 | 80 | 120 | 0 | | | |
| Molybdenum | 27.84 | 0.75 | 25 | 0 | 111 | 80 | 120 | 0 | | | |
| Potassium | 261 | 15 | 250 | 0 | 104 | 80 | 120 | 0 | | | |
| Thallium | 27.8 | 1.5 | 25 | 0.8222 | 108 | 80 | 120 | 0 | | | |
| Zinc | 29.72 | 0.75 | 25 | 0 | 119 | 80 | 120 | 0 | | | |

Sample ID: **LCS-7663** Batch ID: **7663** Test Code: **SW6010B** Units: **mg/Kg** Analysis Date **1/7/03 3:16:29 PM** Prep Date: **12/23/02**
Client ID: Run ID: **ICP OPTIMA 2000 DV_0** SeqNo: **344486**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Potassium | 290 | 15 | 250 | 0 | 116 | 80 | 120 | 0 | | | |
| Zinc | 28.12 | 0.75 | 25 | 0 | 112 | 80 | 120 | 0 | | | |

**Qualifiers:** ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank