



Roy F. Weston, Inc.  
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Vernon Hills, Illinois 60061-1450  
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16 December 1996



Mr. Eric Van Riper  
Environmental Response Division  
Michigan Department of Environmental Quality  
Shiawassee District Office  
10650 S. Bennett Drive  
Morrice, Michigan 48857-9782

Work Order No.: 01138-079-001

Re: December 1996 Addendum to January 1996 Remedial Action Plan  
Linden Road Site  
Genesee County, Michigan

Dear Mr. Van Riper:

Roy F. Weston, Inc. (WESTON®), on behalf of General Motors (GM), has prepared this addendum to the January 1996 Remedial Action Plan (RAP) for the above-referenced site, which presents the findings of the recent groundwater and storm sewer sampling investigations conducted at the request of the Michigan Department of Environmental Quality (MDEQ). This addendum also includes information on two additional monitoring wells installed at the site.

GM received the MDEQ's review comments on the January 1996 RAP for the Linden Road site by letter, dated 19 July 1996. Subsequently, a meeting was held between the MDEQ, GM, and WESTON on 8 August 1996 in Flint, Michigan to discuss the MDEQ's comments in detail. Following this meeting, GM submitted responses to the MDEQ's comments to the MDEQ in a letter dated 16 August 1996. The MDEQ's response to the 16 August 1996 letter was received by GM in a letter dated 13 September 1996.

Based on the MDEQ's 13 September 1996 letter to GM and on GM's subsequent 30 September 1996 letter to the MDEQ, the following activities have been completed:

- Groundwater sampling at five locations representative of the interior of the site.
- Sampling of the storm sewer system crossing the southeast corner of the site.
- Installation of two additional groundwater monitoring wells along the downgradient boundary of the site.





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### **Groundwater Sampling**

Groundwater samples were collected from the shallow water-bearing zone on 29 and 30 October 1996 from five locations representative of the interior of the site, in accordance with WESTON's August 1996 Sampling and Analysis Plan, which was approved by the MDEQ. Samples were collected using a truck-mounted drill rig, which consisted of a Geoprobe unit. Drilling activities were performed by Mateco Drilling Co. of Grand Rapids, Michigan. The sampling locations are shown on the attached Figure 1.

Minor deviations to the originally proposed sampling locations were made, based on accessibility and availability of groundwater. Groundwater samples were collected as grab samples using the procedures outlined in WESTON's August 1996 Sampling and Analysis Plan. All site health and safety, sampling, and sample handling procedures were in accordance with those described in the Site Investigation Work Plan for the Linden Road Site (WESTON, 1990).

A single groundwater sample was collected from each of the five Geoprobe sampling locations (GP-1, GP-2, GP-3, GP-4, and GP-5) shown in Figure 1. In addition to the investigative samples, a field duplicate sample was collected from sample location GP-2 and retained for analysis.

The samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), "Michigan Ten Metals," and polychlorinated biphenyls (PCBs), as requested by the MDEQ. The samples were analyzed by Fire & Environmental Consulting Laboratories, Inc. (FECL) of East Lansing, Michigan. The analytical data were validated by a WESTON chemist in accordance with applicable United States Environmental Protection Agency (U.S. EPA) procedures.

The attached Table 1 presents a summary of the detected compounds and the analytical results for groundwater samples. A copy of the laboratory analytical reports, including the chain-of-custody documentation, is presented in Attachment A. Table 1 also compares the concentrations of detected constituents in groundwater samples to the MDEQ generic drinking water criteria for residential and industrial/commercial categories. As shown in Table 1, none of the VOCs or SVOCs detected exceeded their respective reference concentrations. Barium was detected in samples GP-03 and GP-04 at concentrations of 2.98 and 5.76 mg/L, which are above the MDEQ Generic Drinking Water Criteria. PCBs were not detected in any of the samples. It should be noted that groundwater samples from geoprobe points cannot be properly "developed" to remove fine particulates that are not mobile in an aquifer system. Therefore, they often indicate higher constituent



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concentrations than actually present in a mobile phase. However, based on groundwater samples collected at the site using the geoprobe system, no concentrations of hazardous substances appear to be present in the shallow groundwater within the site.

### **Storm Sewer Systems Sampling**

In accordance with the sampling plan presented in WESTON's 26 September 1996 letter, water samples were collected from the storm sewers that cross the southeast corner of the Linden Road site. The purpose of this sampling effort was to determine if any potential contamination at the site was being released into the storm drain system.

A review of the storm sewer drawings obtained from the Genesee County Building Department and an on-site inspection indicated two storm sewers cross the southeast corner of the Linden Road site. The two storm sewers run parallel to each other, as shown in Figure 1. A visual inspection of the manhole associated with these sewers indicated the older 14-inch storm sewer was connected directly to the main storm sewer system along Linden Road. The level of water in the manhole at this connection was above the level of the discharge pipe for the sewer in question. Because there was no suitable effluent sampling location, no water samples were collected from the 14-inch sewer. However, water samples were collected from the 24-inch storm sewer at the locations marked SS-A and SS-B in Figure 1.

Water samples collected from locations SS-A and SS-B were analyzed for VOCs, SVOCs, Michigan Ten Metals, and PCBs. Sample collection and handling protocols were in accordance with the procedures used previously for surface water sampling. The samples were analyzed by FECL and were validated by WESTON. A summary of detected compounds for the storm sewer sample analyses is also presented in Table 1. A complete laboratory data package related to these analyses is included in Attachment A. A single VOC—xylene—was detected in sample SS-A. No other organic compounds were detected in either of the samples.

Three metals (arsenic, barium, and zinc) were detected at trace concentrations in both samples SS-A and SS-B; however, their concentrations were well below the Groundwater Surface Water Interface (GSI) criteria (Table 1). While the GSI criteria are not particularly relevant in this instance, they serve as a conservative screening criteria.

Based on the analytical results of the storm sewer sampling, no evidence exists of any significant hazardous substance concentrations in the storm sewers.

Mr. Eric Van Riper  
Michigan Department of Environmental Quality

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### **Monitoring Well Installation**

As approved by the MDEQ, two additional shallow groundwater monitoring wells (MW-8S and MW-9S) were installed at the Linden Road site on 10 October 1996. These wells will be included in the long-term monitoring action at the site. The approximate locations of these monitoring wells are shown in Figure 1. Drilling and well installation activities were conducted by Mateco Drilling Co. of Grand Rapids, Michigan. Drilling was performed using 4.25-inch-inner diameter hollow-stem augers. The well material consisted of a 2-inch diameter stainless steel flush-pointed riser pipe and stainless steel (Grade 304) screens. The well screens were 5 feet in length with 0.010-inch slotted openings. All drilling and well installation well development methods were in accordance with those used for the previously drilled shallow wells at the site. The boring logs and well construction diagrams for the above-referenced wells are included as Attachment B.

The well location and elevation surveys for the newly constructed wells were performed in early December. A round of water level measurements will be recorded from all the shallow monitoring wells on-site, and a groundwater potentiometric surface map indicating the groundwater flow direction will be prepared and submitted to the MDEQ in early January 1997. Groundwater samples will be collected and analyzed from the newly installed monitoring wells MW-8S and MW-9S, and results from this sampling event will be forwarded to MDEQ with the groundwater potentiometric surface map in early January 1997.

### **Sanitary Sewer Location**

On 29 October 1996, during a site visit to the Linden Road site, Mr. Van Riper requested GM to review local sanitary sewer maps and identify and confirm the route of the sanitary sewer that lies parallel to the southern boundary of the Linden Road site. A review of sanitary sewer maps for the area confirmed that a sanitary sewer was present that runs along the southern boundary of the site, and is connected to a main sanitary sewer system along Linden Road. No laterals from the sewer extended into the site property.

### **Land Use**

GM intends to develop and reuse the Linden Road site for limited recreational use consistent with Section 20120a(1)(h) of Michigan Public Act 451. GM will also evaluate cleanup of an approximately 300-foot-wide frontage zone within the site along Linden Road to meet the commercial Subcategory III criteria. If commercial use of the above-referenced frontage appears feasible, GM will obtain MDEQ's approval for changing relevant portions



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of the RAP. Any such land use change from the recreational use category would require a modification of the local zoning classification. GM will seek modification of the zoning prior to requesting MDEQ's approval for modifying the RAP.

If you have any questions or require additional information, please call me at (847)918-4018.

Very truly yours,

ROY F. WESTON, INC.

A handwritten signature in blue ink, appearing to read "S. Babusukumar".

S. Babusukumar, P.G.  
Project Manager

SB/pw

cc: Mr. Alan Howard, MDEQ  
Mr. Rodney Mosier, MDEQ  
Mr. Robert Metcalf, GM  
Mr. Edward Peterson, GM

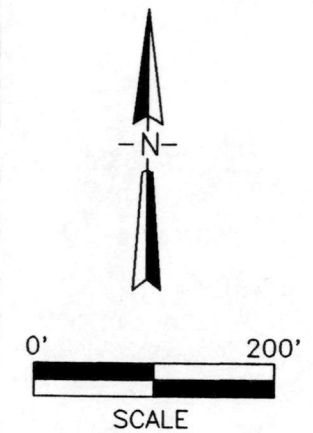
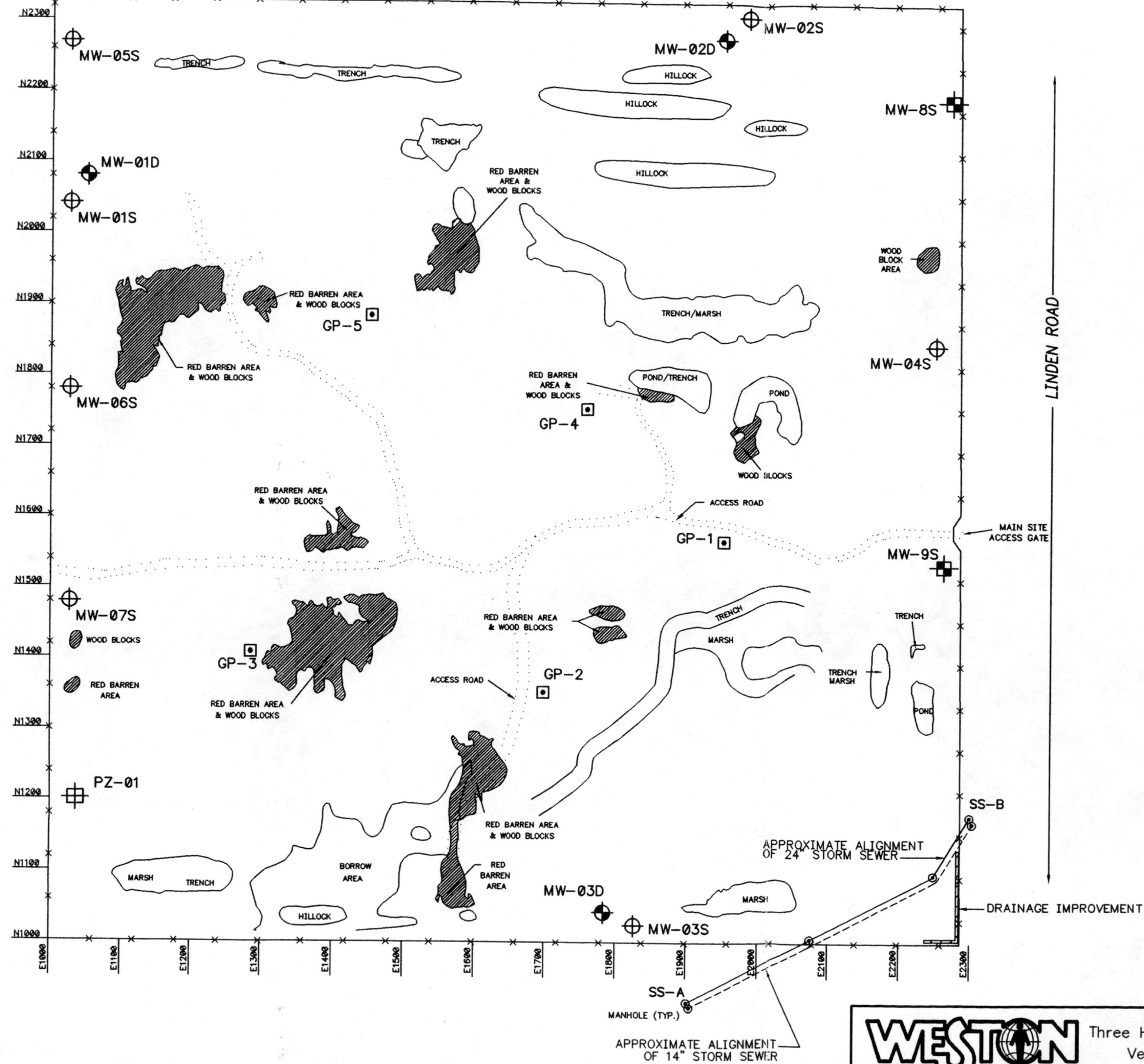
**Table 1**

**Comparison of Detected Constituents to MDEQ Generic Criteria  
Groundwater and Storm Sewer Analytical Results  
Interior Groundwater Sampling and Storm Sewer Sampling  
Linden Road Site  
October 1996  
(All concentrations in mg/L)**

| Constituent*               | GP-01 | GP-02 | GP-02D | GP-03 | GP-04 | GP-05 | SS-A  | SS-B  | MDEQ Generic Drinking Water Criteria |                       | GSI Criteria ** |
|----------------------------|-------|-------|--------|-------|-------|-------|-------|-------|--------------------------------------|-----------------------|-----------------|
|                            |       |       |        |       |       |       |       |       | Residential                          | Industrial/Commercial |                 |
| <b>VOCs</b>                |       |       |        |       |       |       |       |       |                                      |                       |                 |
| 1,1,1-Trichloroethane      | 0.001 | ND    | ND     | ND    | ND    | ND    | ND    | ND    | 0.20                                 | 0.20                  | 0.120           |
| Benzene                    | ND    | 0.003 | 0.003  | 0.004 | 0.002 | 0.001 | ND    | ND    | 0.005                                | 0.005                 | 0.053           |
| Ethylbenzene               | ND    | 0.007 | 0.007  | ND    | 0.047 | ND    | ND    | ND    | 0.70                                 | 0.70                  | 0.031           |
| Toluene                    | ND    | 0.002 | 0.002  | ND    | ND    | ND    | ND    | ND    | 1.0                                  | 1.0                   | 0.110           |
| Xylenes, total             | ND    | 0.021 | 0.019  | 0.002 | 0.048 | 0.004 | 0.002 | ND    | 10                                   | 10                    | 0.059           |
| cis-1,2-Dichloroethene     | 0.034 | ND    | ND     | ND    | ND    | ND    | ND    | ND    | 0.070                                | 0.070                 | --              |
| <b>SVOCs</b>               |       |       |        |       |       |       |       |       |                                      |                       |                 |
| Acenaphthene               | ND    | 0.02  | 0.02   | ND    | 0.01  | ND    | ND    | ND    | 1.3                                  | 3.8                   | 0.0038          |
| Bis(2-chlorisopropyl)ether | ND    | 0.05  | 0.04   | 0.05  | ND    | 0.02  | ND    | ND    | --                                   | --                    | --              |
| Fluoranthene               | ND    | ND    | ND     | ND    | 0.01  | ND    | ND    | ND    | 0.88                                 | 2.5                   | 0.370           |
| Fluorene                   | ND    | 0.02  | 0.02   | ND    | 0.01  | ND    | ND    | ND    | 0.88                                 | 2.5                   | 14              |
| Naphthalene                | ND    | 0.05  | 0.05   | ND    | 0.02  | ND    | ND    | ND    | 0.26                                 | 0.75                  | 0.034           |
| Phenanthrene               | ND    | 0.02  | 0.02   | ND    | 0.02  | ND    | ND    | ND    | 0.026                                | 0.075                 | --              |
| Pyrene                     | ND    | ND    | ND     | ND    | 0.01  | ND    | ND    | ND    | 0.55                                 | 1.6                   | 11              |
| <b>Total Metals</b>        |       |       |        |       |       |       |       |       |                                      |                       |                 |
| Arsenic                    | ND    | 0.003 | 0.004  | 0.018 | ND    | 0.003 | 0.002 | 0.003 | 0.05                                 | 0.05                  | 0.011           |
| Barium                     | 0.070 | 0.50  | 0.52   | 2.98  | 5.76  | 0.56  | 0.04  | 0.06  | 2.0                                  | 2.0                   | 0.63            |
| Zinc                       | 0.070 | 0.02  | 0.01   | 0.02  | 0.02  | 0.02  | 0.03  | 0.03  | 2.4                                  | 6.9                   | 0.81            |

\* = All other constituents were not detected.  
 \*\* = Groundwater Surface Water Interface Criteria (GSI).  
 ND = Compound not detected above the laboratory method detection limit.  
 -- = No criteria available.

BEN-12/02/96-10-14-J:\CAD93\600\61091



**LEGEND**

|        |  |                                      |
|--------|--|--------------------------------------|
| MW-04S |  | SHALLOW MONITORING WELL LOCATION     |
| MW-02D |  | DEEP MONITORING WELL LOCATION        |
| PZ-02  |  | PIEZOMETER LOCATION                  |
| MW-9S  |  | NEW SHALLOW MONITORING WELL LOCATION |
| GP-1   |  | GEOPROBE GROUNDWATER SAMPLE LOCATION |
| SS-A   |  | STORM SEWER SAMPLING LOCATIONS       |
| SS-B   |  |                                      |

FIGURE 1

**WESTON** Three Hawthorn Parkway  
 MANAGERS DESIGNERS/CONSULTANTS Vernon Hills, Illinois 60061

GEOPROBE GROUNDWATER AND STORM SEWER SAMPLING LOCATIONS  
 LINDEN ROAD LANDFILL SITE  
 Flint, Michigan

**ATTACHMENT A**  
**LABORATORY ANALYTICAL RESULTS**



# Fire & Environmental Consulting Laboratories, Inc.

One East Complex 1451 East Lansing Drive, Suite 222 East Lansing, MI 48823  
Phone (517) 332-0167 Fax (517) 332-6333

November 12, 1996

Attention: Mr. S. Babusukumar

Roy F. Weston, Inc.  
3 Hawthorn Parkway, Suite 400  
Vernon Hills, IL 60061

## Analytical Laboratory Report

**FECL #(s): AA40661-AA40668**

**Project: 01138-079-001 GM**  
Samples collected by: M. REESE  
Date/Time Submitted: 10/31/96 13:00  
PO #: Verbal

**FECL #: AA40661**  
Tag: GP-01  
Date/Time Collected: 10/29/96 14:17  
Matrix: Liquid  
Container(s): 2-40 mL Vials, 2-Amber Liter, 125 mL Plastic  
Preservation: HCl/None/Refrigeration, HNO<sub>3</sub>

**FECL #: AA40662**  
Tag: GP-02  
Date/Time Collected: 10/29/96 15:42  
Matrix: Liquid  
Container(s): 2-40 mL Vials, 2-Amber Liter, 125 mL Plastic  
Preservation: HCl/None/Refrigeration, HNO<sub>3</sub>

**FECL #: AA40663**  
Tag: GP-02D  
Date/Time Collected: 10/29/96 15:42  
Matrix: Liquid  
Container(s): 2-40 mL Vials, 2-Amber Liter, 125 mL Plastic  
Preservation: HCl/None/Refrigeration, HNO<sub>3</sub>



Analytical Laboratory Report  
Roy F. Weston, Inc.  
November 12, 1996

**FECL #: AA40664**

Tag: GP-03

Date/Time Collected: 10/30/96 09:30

Matrix: Liquid

Container(s): 2-40 mL Vials, 2-Amber Liter, 125 mL Plastic

Preservation: HCl/None/Refrigeration, HNO<sub>3</sub>

**FECL #: AA40665**

Tag: GP-04

Date/Time Collected: 10/30/96 10:10

Matrix: Liquid

Container(s): 2-40 mL Vials, 2-Amber Liter, 125 mL Plastic

Preservation: HCl/None/Refrigeration, HNO<sub>3</sub>

**FECL #: AA40666**

Tag: GP-05

Date/Time Collected: 10/30/96 08:50

Matrix: Liquid

Container(s): 2-40 mL Vials, 2-Amber Liter, 125 mL Plastic

Preservation: HCl/None/Refrigeration, HNO<sub>3</sub>

**FECL #: AA40667**

Tag: SS-A

Date/Time Collected: 10/30/96 12:10

Matrix: Liquid

Container(s): 2-40 mL Vials, 2-Amber Liter, 125 mL Plastic

Preservation: HCl/None/Refrigeration, HNO<sub>3</sub>

**FECL #: AA40668**

Tag: SS-B

Date/Time Collected: 10/30/96 15:30

Matrix: Liquid

Container(s): 2-40 mL Vials, 2-Amber Liter, 125 mL Plastic

Preservation: HCl/None/Refrigeration, HNO<sub>3</sub>



Analytical Laboratory Report  
Roy F. Weston, Inc.  
November 12, 1996

FECL #: AA40661

Tag: GP-01

Date/Time Collected: 10/29/96 14:17

Matrix: Liquid

| Analysis                 | Results      | Units | MDL    | Method   | Analyst | Date Run |
|--------------------------|--------------|-------|--------|----------|---------|----------|
| <b>Metals</b>            |              |       |        |          |         |          |
| Arsenic                  | Not detected | mg/L  | 0.001  | 200.8    | P R     | 11/08/96 |
| Barium                   | 0.07         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Cadmium                  | Not detected | mg/L  | 0.0002 | 200.8    | P R     | 11/08/96 |
| Chromium                 | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Copper                   | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Lead                     | Not detected | mg/L  | 0.003  | 200.8    | P R     | 11/08/96 |
| Mercury                  | Not detected | mg/L  | 0.0002 | 245.1    | E B     | 11/03/96 |
| Selenium                 | Not detected | mg/L  | 0.005  | 200.8    | P R     | 11/08/96 |
| Silver                   | Not detected | mg/L  | 0.0005 | 200.8    | P R     | 11/08/96 |
| Zinc                     | 0.07         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| <b>Organics</b>          |              |       |        |          |         |          |
| BNA Extraction           | Completed    |       |        | 625/8270 | S G     | 11/06/96 |
| Extraction, PCB          | Completed    |       |        |          | JKB     | 11/06/96 |
| PCB                      | Not detected | mg/L  | 0.001  | 608      | JB      | 11/07/96 |
| <b>Volatile Organics</b> |              |       |        |          |         |          |
| Benzene                  | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Bromodichloromethane     | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Bromoform                | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Bromomethane             | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Carbon tetrachloride     | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chlorobenzene            | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chloroethane             | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 2-Chloroethylvinyl ether | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chloroform               | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chloromethane            | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Dibromochloromethane     | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,2-Dichlorobenzene      | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,3-Dichlorobenzene      | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,4-Dichlorobenzene      | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,1-Dichloroethane       | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,2-Dichloroethane       | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,1-Dichloroethene       | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| cis-1,2-Dichloroethene   | 0.034        | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| trans-1,2-Dichloroethene | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |



Analytical Laboratory Report  
Roy F. Weston, Inc.  
November 12, 1996

FECL #: AA40661 (Continued)

Tag: GP-01

Date/Time Collected: 10/29/96 14:17

Matrix: Liquid

| Analysis                             | Results      | Units | MDL   | Method | Analyst | Date Run |
|--------------------------------------|--------------|-------|-------|--------|---------|----------|
| <b>Organics (Continued)</b>          |              |       |       |        |         |          |
| <b>Volatile Organics (Continued)</b> |              |       |       |        |         |          |
| 1,2-Dichloropropane                  | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| cis-1,3-Dichloropropene              | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| trans-1,3-Dichloropropene            | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Ethylbenzene                         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Methylene Chloride                   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Styrene                              | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2,2-Tetrachloroethane            | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Tetrachloroethene                    | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Toluene                              | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,1-Trichloroethane                | 0.001        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2-Trichloroethane                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichloroethene                      | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichlorofluoromethane               | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Vinyl Chloride                       | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| p,m-Xylene                           | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| o-Xylene                             | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Acetone                              | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Butanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| Carbon disulfide                     | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Hexanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 4-Methyl-2-pentanone                 | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| <b>GC/MS Semi-Volatile Organics</b>  |              |       |       |        |         |          |
| Acenaphthene                         | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Acenaphthylene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Anthracene                           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzidine                            | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)anthracene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(b)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(k)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(ghi)perylene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)pyrene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethoxy)methane           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethyl)ether              | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chlorisopropyl)ether           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |



Analytical Laboratory Report  
Roy F. Weston, Inc.  
November 12, 1996

FECL #: AA40661 (Continued)

Tag: GP-01

Date/Time Collected: 10/29/96 14:17

Matrix: Liquid

| Analysis  | Results      | Units | MDL  | Method | Analyst | Date Run |
|---|--------------|-------|------|--------|---------|----------|
| <b>Organics (Continued)</b>                     |              |       |      |        |         |          |
| <b>GC/MS Semi-Volatile Organics (Continued)</b> |              |       |      |        |         |          |
| Bis(2-ethylhexyl)phthalate                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Bromophenyl phenyl ether                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Butyl benzyl phthalate                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Chloronaphthalene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Chloro-3-methylphenol                         | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Chlorophenol                                  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Chlorophenyl phenyl ether                     | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Chrysene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Dibenzo(ah)anthracene                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Di-n-butyl phthalate                            | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,2-Dichlorobenzene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,3-Dichlorobenzene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,4-Dichlorobenzene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 3,3'-Dichlorobenzidine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dichlorophenol                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Diethyl phthalate                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Dimethyl phthalate                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4,6-Dinitro-2-methylphenol                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,6-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Di-n-octyl phthalate                            | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluoranthene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluorene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobenzene                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobutadiene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorocyclopentadiene                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachloroethane                                | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Ideno(1,2,3-cd)pyrene                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Isophorone                                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Naphthalene                                     | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Nitrobenzene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitroso-di-n-butylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |



Analytical Laboratory Report  
 Roy F. Weston, Inc.  
 November 12, 1996

**FECL #: AA40661 (Continued)**

**Tag: GP-01**

**Date/Time Collected: 10/29/96 14:17**

**Matrix: Liquid**

| Analysis  | Results      | Units | MDL  | Method | Analyst | Date Run |
|---|--------------|-------|------|--------|---------|----------|
| <b>Organics (Continued)</b>                     |              |       |      |        |         |          |
| <b>GC/MS Semi-Volatile Organics (Continued)</b> |              |       |      |        |         |          |
| N-Nitrosodimethylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodiphenylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodi-n-propylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pentachlorophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenanthrene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenol  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pyrene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,2,4-Trichlorobenzene                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4,6-Trichlorophenol                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dimethylphenol                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |

**FECL #: AA40662**

**Tag: GP-02**

**Date/Time Collected: 10/29/96 15:42**

**Matrix: Liquid**

| Analysis        | Results      | Units | MDL    | Method   | Analyst | Date Run |
|-----------------|--------------|-------|--------|----------|---------|----------|
| <b>Metals</b>   |              |       |        |          |         |          |
| Arsenic         | 0.003        | mg/L  | 0.001  | 200.8    | P R     | 11/08/96 |
| Barium          | 0.50         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Cadmium         | Not detected | mg/L  | 0.0002 | 200.8    | P R     | 11/08/96 |
| Chromium        | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Copper          | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Lead            | Not detected | mg/L  | 0.003  | 200.8    | P R     | 11/08/96 |
| Mercury         | Not detected | mg/L  | 0.0002 | 245.1    | E B     | 11/03/96 |
| Selenium        | Not detected | mg/L  | 0.005  | 200.8    | P R     | 11/08/96 |
| Silver          | Not detected | mg/L  | 0.0005 | 200.8    | P R     | 11/08/96 |
| Zinc            | 0.02         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| <b>Organics</b> |              |       |        |          |         |          |
| BNA Extraction  | Completed    |       |        | 625/8270 | S G     | 11/06/96 |
| Extraction, PCB | Completed    |       |        |          | JKB     | 11/06/96 |
| PCB             | Not detected | mg/L  | 0.001  | 608      | JB      | 11/07/96 |



Analytical Laboratory Report  
Roy F. Weston, Inc.  
November 12, 1996

FECL #: AA40662 (Continued)

Tag: GP-02

Date/Time Collected: 10/29/96 15:42

Matrix: Liquid

| Analysis                    | Results      | Units | MDL   | Method | Analyst | Date Run |
|-----------------------------|--------------|-------|-------|--------|---------|----------|
| <i>Organics (Continued)</i> |              |       |       |        |         |          |
| <b>Volatile Organics</b>    |              |       |       |        |         |          |
| Benzene                     | 0.003        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Bromodichloromethane        | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Bromoform                   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Bromomethane                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Carbon tetrachloride        | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chlorobenzene               | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chloroethane                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 2-Chloroethylvinyl ether    | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chloroform                  | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chloromethane               | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Dibromochloromethane        | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,2-Dichlorobenzene         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,3-Dichlorobenzene         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,4-Dichlorobenzene         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1-Dichloroethane          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,2-Dichloroethane          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1-Dichloroethene          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| cis-1,2-Dichloroethene      | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| trans-1,2-Dichloroethene    | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,2-Dichloropropane         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| cis-1,3-Dichloropropene     | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| trans-1,3-Dichloropropene   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Ethylbenzene                | 0.007        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Methylene Chloride          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Styrene                     | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2,2-Tetrachloroethane   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Tetrachloroethene           | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Toluene                     | 0.002        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,1-Trichloroethane       | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2-Trichloroethane       | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichloroethene             | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichlorofluoromethane      | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Vinyl Chloride              | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| p,m-Xylene                  | 0.013        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |



Analytical Laboratory Report  
Roy F. Weston, Inc.  
November 12, 1996

FECL #: AA40662 (Continued)  
Tag: GP-02  
Date/Time Collected: 10/29/96 15:42  
Matrix: Liquid

| Analysis                             | Results      | Units | MDL   | Method | Analyst | Date Run |
|--------------------------------------|--------------|-------|-------|--------|---------|----------|
| <b>Organics (Continued)</b>          |              |       |       |        |         |          |
| <b>Volatile Organics (Continued)</b> |              |       |       |        |         |          |
| o-Xylene                             | 0.008        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Acetone                              | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Butanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| Carbon disulfide                     | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Hexanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 4-Methyl-2-pentanone                 | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| <b>GC/MS Semi-Volatile Organics</b>  |              |       |       |        |         |          |
| Acenaphthene                         | 0.02         | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Acenaphthylene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Anthracene                           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzidine                            | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)anthracene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(b)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(k)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(ghi)perylene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)pyrene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethoxy)methane           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethyl)ether              | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chlorisopropyl)ether           | 0.05         | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-ethylhexyl)phthalate           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 4-Bromophenyl phenyl ether           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Butyl benzyl phthalate               | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 2-Chloronaphthalene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 4-Chloro-3-methylphenol              | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 2-Chlorophenol                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 4-Chlorophenyl phenyl ether          | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Chrysene                             | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Dibenzo(ah)anthracene                | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Di-n-butyl phthalate                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 1,2-Dichlorobenzene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 1,3-Dichlorobenzene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 1,4-Dichlorobenzene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 3,3'-Dichlorobenzidine               | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 2,4-Dichlorophenol                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |



Analytical Laboratory Report  
Roy F. Weston, Inc.  
November 12, 1996

FECL #: AA40662 (Continued)

Tag: GP-02

Date/Time Collected: 10/29/96 15:42

Matrix: Liquid

| Analysis  | Results      | Units | MDL  | Method | Analyst | Date Run |
|---|--------------|-------|------|--------|---------|----------|
| <b>Organics (Continued)</b>                     |              |       |      |        |         |          |
| <b>GC/MS Semi-Volatile Organics (Continued)</b> |              |       |      |        |         |          |
| Diethyl phthalate                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Dimethyl phthalate                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4,6-Dinitro-2-methylphenol                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,6-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Di-n-octyl phthalate                            | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluoranthene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluorene  | 0.02         | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobenzene                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobutadiene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorocyclopentadiene                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachloroethane                                | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Ideno(1,2,3-cd)pyrene                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Isophorone                                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Naphthalene                                     | 0.05         | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Nitrobenzene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitroso-di-n-butylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodimethylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodiphenylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodi-n-propylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pentachlorophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenanthrene                                    | 0.02         | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenol  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pyrene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,2,4-Trichlorobenzene                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4,6-Trichlorophenol                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dimethylphenol                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |



Analytical Laboratory Report  
Roy F. Weston, Inc.  
November 12, 1996

FECL #: AA40663

Tag: GP-02D

Date/Time Collected: 10/29/96 15:42

Matrix: Liquid

| Analysis                 | Results      | Units | MDL    | Method   | Analyst | Date Run |
|--------------------------|--------------|-------|--------|----------|---------|----------|
| <b>Metals</b>            |              |       |        |          |         |          |
| Arsenic                  | 0.004        | mg/L  | 0.001  | 200.8    | P R     | 11/08/96 |
| Barium                   | 0.52         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Cadmium                  | Not detected | mg/L  | 0.0002 | 200.8    | P R     | 11/08/96 |
| Chromium                 | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Copper                   | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Lead                     | Not detected | mg/L  | 0.003  | 200.8    | P R     | 11/08/96 |
| Mercury                  | Not detected | mg/L  | 0.0002 | 245.1    | E B     | 11/03/96 |
| Selenium                 | Not detected | mg/L  | 0.005  | 200.8    | P R     | 11/08/96 |
| Silver                   | Not detected | mg/L  | 0.0005 | 200.8    | P R     | 11/08/96 |
| Zinc                     | 0.01         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| <b>Organics</b>          |              |       |        |          |         |          |
| BNA Extraction           | Completed    |       |        | 625/8270 | S G     | 11/06/96 |
| Extraction, PCB          | Completed    |       |        |          | JKB     | 11/06/96 |
| PCB                      | Not detected | mg/L  | 0.001  | 608      | JB      | 11/07/96 |
| <b>Volatile Organics</b> |              |       |        |          |         |          |
| Benzene                  | 0.003        | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Bromodichloromethane     | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Bromoform                | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Bromomethane             | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Carbon tetrachloride     | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chlorobenzene            | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chloroethane             | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 2-Chloroethylvinyl ether | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chloroform               | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chloromethane            | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Dibromochloromethane     | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,2-Dichlorobenzene      | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,3-Dichlorobenzene      | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,4-Dichlorobenzene      | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,1-Dichloroethane       | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,2-Dichloroethane       | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,1-Dichloroethene       | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| cis-1,2-Dichloroethene   | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| trans-1,2-Dichloroethene | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |



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Roy F. Weston, Inc.  
November 12, 1996

FECL #: AA40663 (Continued)

Tag: GP-02D

Date/Time Collected: 10/29/96 15:42

Matrix: Liquid

| Analysis                             | Results      | Units | MDL   | Method | Analyst | Date Run |
|--------------------------------------|--------------|-------|-------|--------|---------|----------|
| <b>Organics (Continued)</b>          |              |       |       |        |         |          |
| <b>Volatile Organics (Continued)</b> |              |       |       |        |         |          |
| 1,2-Dichloropropane                  | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| cis-1,3-Dichloropropene              | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| trans-1,3-Dichloropropene            | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Ethylbenzene                         | 0.007        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Methylene Chloride                   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Styrene                              | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2,2-Tetrachloroethane            | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Tetrachloroethene                    | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Toluene                              | 0.002        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,1-Trichloroethane                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2-Trichloroethane                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichloroethene                      | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichlorofluoromethane               | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Vinyl Chloride                       | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| p,m-Xylene                           | 0.011        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| o-Xylene                             | 0.008        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Acetone                              | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Butanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| Carbon disulfide                     | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Hexanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 4-Methyl-2-pentanone                 | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| <b>GC/MS Semi-Volatile Organics</b>  |              |       |       |        |         |          |
| Acenaphthene                         | 0.02         | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Acenaphthylene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Anthracene                           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzidine                            | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)anthracene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(b)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(k)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(ghi)perylene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)pyrene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethoxy)methane           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethyl)ether              | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chlorisopropyl)ether           | 0.04         | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |



Analytical Laboratory Report  
Roy F. Weston, Inc.  
November 12, 1996

FECL #: AA40663 (Continued)

Tag: GP-02D

Date/Time Collected: 10/29/96 15:42

Matrix: Liquid

| Analysis  | Results      | Units | MDL  | Method | Analyst | Date Run |
|---|--------------|-------|------|--------|---------|----------|
| <b>Organics (Continued)</b>                     |              |       |      |        |         |          |
| <b>GC/MS Semi-Volatile Organics (Continued)</b> |              |       |      |        |         |          |
| Bis(2-ethylhexyl)phthalate                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Bromophenyl phenyl ether                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Butyl benzyl phthalate                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Chloronaphthalene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Chloro-3-methylphenol                         | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Chlorophenol                                  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Chlorophenyl phenyl ether                     | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Chrysene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Dibenzo(ah)anthracene                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Di-n-butyl phthalate                            | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,2-Dichlorobenzene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,3-Dichlorobenzene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,4-Dichlorobenzene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 3,3'-Dichlorobenzidine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dichlorophenol                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Diethyl phthalate                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Dimethyl phthalate                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4,6-Dinitro-2-methylphenol                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,6-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Di-n-octyl phthalate                            | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluoranthene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluorene  | 0.02         | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobenzene                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobutadiene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorocyclopentadiene                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachloroethane                                | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Ideno(1,2,3-cd)pyrene                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Isophorone                                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Naphthalene                                     | 0.05         | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Nitrobenzene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitroso-di-n-butylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |



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 Roy F. Weston, Inc.  
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**FECL #: AA40663 (Continued)**  
**Tag: GP-02D**  
**Date/Time Collected: 10/29/96 15:42**  
**Matrix: Liquid**

| Analysis  | Results      | Units | MDL  | Method | Analyst | Date Run |
|---|--------------|-------|------|--------|---------|----------|
| <b>Organics (Continued)</b>                     |              |       |      |        |         |          |
| <b>GC/MS Semi-Volatile Organics (Continued)</b> |              |       |      |        |         |          |
| N-Nitrosodimethylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodiphenylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodi-n-propylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pentachlorophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenanthrene                                    | 0.02         | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenol  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pyrene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,2,4-Trichlorobenzene                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4,6-Trichlorophenol                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dimethylphenol                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |

**FECL #: AA40664**  
**Tag: GP-03**  
**Date/Time Collected: 10/30/96 09:30**  
**Matrix: Liquid**

| Analysis        | Results      | Units | MDL    | Method   | Analyst | Date Run |
|-----------------|--------------|-------|--------|----------|---------|----------|
| <b>Metals</b>   |              |       |        |          |         |          |
| Arsenic         | 0.018        | mg/L  | 0.001  | 200.8    | P R     | 11/08/96 |
| Barium          | 2.98         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Cadmium         | Not detected | mg/L  | 0.0002 | 200.8    | P R     | 11/08/96 |
| Chromium        | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Copper          | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Lead            | Not detected | mg/L  | 0.003  | 200.8    | P R     | 11/08/96 |
| Mercury         | Not detected | mg/L  | 0.0002 | 245.1    | E B     | 11/03/96 |
| Selenium        | Not detected | mg/L  | 0.005  | 200.8    | P R     | 11/08/96 |
| Silver          | Not detected | mg/L  | 0.0005 | 200.8    | P R     | 11/08/96 |
| Zinc            | 0.02         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| <b>Organics</b> |              |       |        |          |         |          |
| BNA Extraction  | Completed    |       |        | 625/8270 | S G     | 11/06/96 |
| Extraction, PCB | Completed    |       |        |          | JKB     | 11/06/96 |
| PCB             | Not detected | mg/L  | 0.001  | 608      | JB      | 11/07/96 |



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Roy F. Weston, Inc.  
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FECL #: AA40664 (Continued)

Tag: GP-03

Date/Time Collected: 10/30/96 09:30

Matrix: Liquid

| Analysis                    | Results      | Units | MDL   | Method | Analyst | Date Run |
|-----------------------------|--------------|-------|-------|--------|---------|----------|
| <b>Organics (Continued)</b> |              |       |       |        |         |          |
| <b>Volatile Organics</b>    |              |       |       |        |         |          |
| Benzene                     | 0.004        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Bromodichloromethane        | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Bromoform                   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Bromomethane                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Carbon tetrachloride        | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chlorobenzene               | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chloroethane                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 2-Chloroethylvinyl ether    | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chloroform                  | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chloromethane               | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Dibromochloromethane        | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,2-Dichlorobenzene         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,3-Dichlorobenzene         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,4-Dichlorobenzene         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1-Dichloroethane          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,2-Dichloroethane          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1-Dichloroethene          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| cis-1,2-Dichloroethene      | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| trans-1,2-Dichloroethene    | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,2-Dichloropropane         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| cis-1,3-Dichloropropene     | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| trans-1,3-Dichloropropene   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Ethylbenzene                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Methylene Chloride          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Styrene                     | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2,2-Tetrachloroethane   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Tetrachloroethene           | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Toluene                     | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,1-Trichloroethane       | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2-Trichloroethane       | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichloroethene             | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichlorofluoromethane      | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Vinyl Chloride              | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| p,m-Xylene                  | 0.002        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |



Analytical Laboratory Report  
Roy F. Weston, Inc.  
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FECL #: AA40664 (Continued)

Tag: GP-03

Date/Time Collected: 10/30/96 09:30

Matrix: Liquid

| Analysis                             | Results      | Units | MDL   | Method | Analyst | Date Run |
|--------------------------------------|--------------|-------|-------|--------|---------|----------|
| <b>Organics (Continued)</b>          |              |       |       |        |         |          |
| <b>Volatile Organics (Continued)</b> |              |       |       |        |         |          |
| o-Xylene                             | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Acetone                              | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Butanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| Carbon disulfide                     | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Hexanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 4-Methyl-2-pentanone                 | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| <b>GC/MS Semi-Volatile Organics</b>  |              |       |       |        |         |          |
| Acenaphthene                         | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Acenaphthylene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Anthracene                           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzidine                            | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)anthracene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(b)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(k)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(ghi)perylene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)pyrene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethoxy)methane           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethyl)ether              | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chlorisopropyl)ether           | 0.05         | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-ethylhexyl)phthalate           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 4-Bromophenyl phenyl ether           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Butyl benzyl phthalate               | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 2-Chloronaphthalene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 4-Chloro-3-methylphenol              | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 2-Chlorophenol                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 4-Chlorophenyl phenyl ether          | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Chrysene                             | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Dibenzo(ah)anthracene                | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Di-n-butyl phthalate                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 1,2-Dichlorobenzene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 1,3-Dichlorobenzene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 1,4-Dichlorobenzene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 3,3'-Dichlorobenzidine               | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 2,4-Dichlorophenol                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |



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November 12, 1996

FECL #: AA40664 (Continued)  
Tag: GP-03  
Date/Time Collected: 10/30/96 09:30  
Matrix: Liquid

| Analysis  | Results      | Units | MDL  | Method | Analyst | Date Run |
|---|--------------|-------|------|--------|---------|----------|
| <b>Organics (Continued)</b>                     |              |       |      |        |         |          |
| <b>GC/MS Semi-Volatile Organics (Continued)</b> |              |       |      |        |         |          |
| Diethyl phthalate                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Dimethyl phthalate                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4,6-Dinitro-2-methylphenol                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,6-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Di-n-octyl phthalate                            | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluoranthene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluorene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobenzene                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobutadiene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorocyclopentadiene                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachloroethane                                | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Ideno(1,2,3-cd)pyrene                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Isophorone                                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Naphthalene                                     | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Nitrobenzene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitroso-di-n-butylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodimethylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodiphenylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodi-n-propylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pentachlorophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenanthrene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenol  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pyrene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,2,4-Trichlorobenzene                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4,6-Trichlorophenol                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dimethylphenol                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |



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Roy F. Weston, Inc.  
November 12, 1996

FECL #: AA40665

Tag: GP-04

Date/Time Collected: 10/30/96 10:10

Matrix: Liquid

| Analysis                 | Results      | Units | MDL    | Method   | Analyst | Date Run |
|--------------------------|--------------|-------|--------|----------|---------|----------|
| <b>Metals</b>            |              |       |        |          |         |          |
| Arsenic                  | Not detected | mg/L  | 0.001  | 200.8    | P R     | 11/08/96 |
| Barium                   | 5.76         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Cadmium                  | Not detected | mg/L  | 0.0002 | 200.8    | P R     | 11/08/96 |
| Chromium                 | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Copper                   | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Lead                     | Not detected | mg/L  | 0.003  | 200.8    | P R     | 11/08/96 |
| Mercury                  | Not detected | mg/L  | 0.0002 | 245.1    | E B     | 11/03/96 |
| Selenium                 | Not detected | mg/L  | 0.005  | 200.8    | P R     | 11/08/96 |
| Silver                   | Not detected | mg/L  | 0.0005 | 200.8    | P R     | 11/08/96 |
| Zinc                     | 0.02         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| <b>Organics</b>          |              |       |        |          |         |          |
| BNA Extraction           | Completed    |       |        | 625/8270 | S G     | 11/06/96 |
| Extraction, PCB          | Completed    |       |        |          | JKB     | 11/06/96 |
| PCB                      | Not detected | mg/L  | 0.001  | 608      | JB      | 11/07/96 |
| <b>Volatile Organics</b> |              |       |        |          |         |          |
| Benzene                  | 0.002        | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Bromodichloromethane     | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Bromoform                | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Bromomethane             | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Carbon tetrachloride     | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chlorobenzene            | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chloroethane             | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 2-Chloroethylvinyl ether | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chloroform               | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chloromethane            | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Dibromochloromethane     | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,2-Dichlorobenzene      | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,3-Dichlorobenzene      | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,4-Dichlorobenzene      | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,1-Dichloroethane       | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,2-Dichloroethane       | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,1-Dichloroethene       | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| cis-1,2-Dichloroethene   | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| trans-1,2-Dichloroethene | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |



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FECL #: AA40665 (Continued)

Tag: GP-04

Date/Time Collected: 10/30/96 10:10

Matrix: Liquid

| Analysis                             | Results      | Units | MDL   | Method | Analyst | Date Run |
|--------------------------------------|--------------|-------|-------|--------|---------|----------|
| <b>Organics (Continued)</b>          |              |       |       |        |         |          |
| <b>Volatile Organics (Continued)</b> |              |       |       |        |         |          |
| 1,2-Dichloropropane                  | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| cis-1,3-Dichloropropene              | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| trans-1,3-Dichloropropene            | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Ethylbenzene                         | 0.047        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Methylene Chloride                   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Styrene                              | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2,2-Tetrachloroethane            | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Tetrachloroethene                    | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Toluene                              | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,1-Trichloroethane                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2-Trichloroethane                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichloroethene                      | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichlorofluoromethane               | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Vinyl Chloride                       | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| p,m-Xylene                           | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| o-Xylene                             | 0.048        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Acetone                              | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Butanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| Carbon disulfide                     | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Hexanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 4-Methyl-2-pentanone                 | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| <b>GC/MS Semi-Volatile Organics</b>  |              |       |       |        |         |          |
| Acenaphthene                         | 0.01         | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Acenaphthylene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Anthracene                           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzidine                            | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)anthracene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(b)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(k)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(ghi)perylene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)pyrene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethoxy)methane           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethyl)ether              | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chlorisopropyl)ether           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |



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FECL #: AA40665 (Continued)

Tag: GP-04

Date/Time Collected: 10/30/96 10:10

Matrix: Liquid

| Analysis  | Results      | Units | MDL  | Method | Analyst | Date Run |
|---|--------------|-------|------|--------|---------|----------|
| <b>Organics (Continued)</b>                     |              |       |      |        |         |          |
| <b>GC/MS Semi-Volatile Organics (Continued)</b> |              |       |      |        |         |          |
| Bis(2-ethylhexyl)phthalate                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Bromophenyl phenyl ether                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Butyl benzyl phthalate                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Chloronaphthalene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Chloro-3-methylphenol                         | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Chlorophenol                                  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Chlorophenyl phenyl ether                     | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Chrysene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Dibenzo(ah)anthracene                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Di-n-butyl phthalate                            | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,2-Dichlorobenzene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,3-Dichlorobenzene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,4-Dichlorobenzene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 3,3'-Dichlorobenzidine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dichlorophenol                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Diethyl phthalate                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Dimethyl phthalate                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4,6-Dinitro-2-methylphenol                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,6-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Di-n-octyl phthalate                            | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluoranthene                                    | 0.01         | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluorene  | 0.01         | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobenzene                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobutadiene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorocyclopentadiene                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachloroethane                                | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Ideno(1,2,3-cd)pyrene                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Isophorone                                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Naphthalene                                     | 0.02         | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Nitrobenzene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitroso-di-n-butylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |



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**FECL #: AA40665 (Continued)**

**Tag: GP-04**

**Date/Time Collected: 10/30/96 10:10**

**Matrix: Liquid**

| Analysis  | Results      | Units | MDL  | Method | Analyst | Date Run |
|---|--------------|-------|------|--------|---------|----------|
| <b>Organics (Continued)</b>                     |              |       |      |        |         |          |
| <b>GC/MS Semi-Volatile Organics (Continued)</b> |              |       |      |        |         |          |
| N-Nitrosodimethylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodiphenylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodi-n-propylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pentachlorophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenanthrene                                    | 0.02         | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenol  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pyrene  | 0.01         | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,2,4-Trichlorobenzene                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4,6-Trichlorophenol                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dimethylphenol                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |

**FECL #: AA40666**

**Tag: GP-05**

**Date/Time Collected: 10/30/96 08:50**

**Matrix: Liquid**

| Analysis        | Results      | Units | MDL    | Method   | Analyst | Date Run |
|-----------------|--------------|-------|--------|----------|---------|----------|
| <b>Metals</b>   |              |       |        |          |         |          |
| Arsenic         | 0.003        | mg/L  | 0.001  | 200.8    | P R     | 11/08/96 |
| Barium          | 0.56         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Cadmium         | Not detected | mg/L  | 0.0002 | 200.8    | P R     | 11/08/96 |
| Chromium        | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Copper          | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Lead            | Not detected | mg/L  | 0.003  | 200.8    | P R     | 11/08/96 |
| Mercury         | Not detected | mg/L  | 0.0002 | 245.1    | E B     | 11/03/96 |
| Selenium        | Not detected | mg/L  | 0.005  | 200.8    | P R     | 11/08/96 |
| Silver          | Not detected | mg/L  | 0.0005 | 200.8    | P R     | 11/08/96 |
| Zinc            | 0.02         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| <b>Organics</b> |              |       |        |          |         |          |
| BNA Extraction  | Completed    |       |        | 625/8270 | S G     | 11/06/96 |
| Extraction, PCB | Completed    |       |        |          | JKB     | 11/06/96 |
| PCB             | Not detected | mg/L  | 0.01   | 608      | JB      | 11/07/96 |



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FECL #: AA40666 (Continued)

Tag: GP-05

Date/Time Collected: 10/30/96 08:50

Matrix: Liquid

| Analysis                    | Results      | Units | MDL   | Method | Analyst | Date Run |
|-----------------------------|--------------|-------|-------|--------|---------|----------|
| <i>Organics (Continued)</i> |              |       |       |        |         |          |
| <b>Volatile Organics</b>    |              |       |       |        |         |          |
| Benzene                     | 0.001        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Bromodichloromethane        | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Bromoform                   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Bromomethane                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Carbon tetrachloride        | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chlorobenzene               | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chloroethane                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 2-Chloroethylvinyl ether    | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chloroform                  | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chloromethane               | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Dibromochloromethane        | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,2-Dichlorobenzene         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,3-Dichlorobenzene         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,4-Dichlorobenzene         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1-Dichloroethane          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,2-Dichloroethane          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1-Dichloroethene          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| cis-1,2-Dichloroethene      | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| trans-1,2-Dichloroethene    | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,2-Dichloropropane         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| cis-1,3-Dichloropropene     | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| trans-1,3-Dichloropropene   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Ethylbenzene                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Methylene Chloride          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Styrene                     | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2,2-Tetrachloroethane   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Tetrachloroethene           | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Toluene                     | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,1-Trichloroethane       | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2-Trichloroethane       | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichloroethene             | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichlorofluoromethane      | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Vinyl Chloride              | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| p,m-Xylene                  | 0.004        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |



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Roy F. Weston, Inc.  
November 12, 1996

FECL #: AA40666 (Continued)

Tag: GP-05

Date/Time Collected: 10/30/96 08:50

Matrix: Liquid

| Analysis                             | Results      | Units | MDL   | Method | Analyst | Date Run |
|--------------------------------------|--------------|-------|-------|--------|---------|----------|
| <b>Organics (Continued)</b>          |              |       |       |        |         |          |
| <b>Volatile Organics (Continued)</b> |              |       |       |        |         |          |
| o-Xylene                             | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Acetone                              | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Butanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| Carbon disulfide                     | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Hexanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 4-Methyl-2-pentanone                 | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| <b>GC/MS Semi-Volatile Organics</b>  |              |       |       |        |         |          |
| Acenaphthene                         | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Acenaphthylene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Anthracene                           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzidine                            | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)anthracene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(b)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(k)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(ghi)perylene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)pyrene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethoxy)methane           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethyl)ether              | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chlorisopropyl)ether           | 0.02         | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-ethylhexyl)phthalate           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 4-Bromophenyl phenyl ether           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Butyl benzyl phthalate               | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 2-Chloronaphthalene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 4-Chloro-3-methylphenol              | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 2-Chlorophenol                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 4-Chlorophenyl phenyl ether          | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Chrysene                             | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Dibenzo(ah)anthracene                | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Di-n-butyl phthalate                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 1,2-Dichlorobenzene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 1,3-Dichlorobenzene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 1,4-Dichlorobenzene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 3,3'-Dichlorobenzidine               | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 2,4-Dichlorophenol                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |



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**FECL #: AA40666 (Continued)**  
**Tag: GP-05**  
**Date/Time Collected: 10/30/96 08:50**  
**Matrix: Liquid**

| Analysis  | Results      | Units | MDL  | Method | Analyst | Date Run |
|---|--------------|-------|------|--------|---------|----------|
| <b>Organics (Continued)</b>                     |              |       |      |        |         |          |
| <b>GC/MS Semi-Volatile Organics (Continued)</b> |              |       |      |        |         |          |
| Diethyl phthalate                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Dimethyl phthalate                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4,6-Dinitro-2-methylphenol                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,6-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Di-n-octyl phthalate                            | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluoranthene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluorene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobenzene                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobutadiene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorocyclopentadiene                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachloroethane                                | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Ideno(1,2,3-cd)pyrene                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Isophorone                                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Naphthalene                                     | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Nitrobenzene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitroso-di-n-butylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodimethylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodiphenylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodi-n-propylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pentachlorophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenanthrene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenol  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pyrene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,2,4-Trichlorobenzene                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4,6-Trichlorophenol                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dimethylphenol                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |



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FECL #: AA40667

Tag: SS-A

Date/Time Collected: 10/30/96 12:10

Matrix: Liquid

| Analysis                 | Results      | Units | MDL    | Method   | Analyst | Date Run |
|--------------------------|--------------|-------|--------|----------|---------|----------|
| <b>Metals</b>            |              |       |        |          |         |          |
| Arsenic                  | 0.002        | mg/L  | 0.001  | 200.8    | P R     | 11/08/96 |
| Barium                   | 0.04         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Cadmium                  | Not detected | mg/L  | 0.0002 | 200.8    | P R     | 11/08/96 |
| Chromium                 | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Copper                   | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Lead                     | Not detected | mg/L  | 0.003  | 200.8    | P R     | 11/08/96 |
| Mercury                  | Not detected | mg/L  | 0.0002 | 245.1    | E B     | 11/03/96 |
| Selenium                 | Not detected | mg/L  | 0.005  | 200.8    | P R     | 11/08/96 |
| Silver                   | Not detected | mg/L  | 0.0005 | 200.8    | P R     | 11/08/96 |
| Zinc                     | 0.03         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| <b>Organics</b>          |              |       |        |          |         |          |
| BNA Extraction           | Completed    |       |        | 625/8270 | S G     | 11/06/96 |
| Extraction, PCB          | Completed    |       |        |          | JKB     | 11/06/96 |
| PCB                      | Not detected | mg/L  | 0.0001 | 608      | JB      | 11/07/96 |
| <b>Volatile Organics</b> |              |       |        |          |         |          |
| Benzene                  | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Bromodichloromethane     | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Bromoform                | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Bromomethane             | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Carbon tetrachloride     | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chlorobenzene            | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chloroethane             | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 2-Chloroethylvinyl ether | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chloroform               | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Chloromethane            | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| Dibromochloromethane     | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,2-Dichlorobenzene      | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,3-Dichlorobenzene      | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,4-Dichlorobenzene      | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,1-Dichloroethane       | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,2-Dichloroethane       | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| 1,1-Dichloroethene       | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| cis-1,2-Dichloroethene   | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |
| trans-1,2-Dichloroethene | Not detected | mg/L  | 0.001  | 8260     | VFM     | 11/03/96 |



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**FECL #: AA40667 (Continued)**

**Tag: SS-A**

**Date/Time Collected: 10/30/96 12:10**

**Matrix: Liquid**

| Analysis                             | Results      | Units | MDL   | Method | Analyst | Date Run |
|--------------------------------------|--------------|-------|-------|--------|---------|----------|
| <b>Organics (Continued)</b>          |              |       |       |        |         |          |
| <b>Volatile Organics (Continued)</b> |              |       |       |        |         |          |
| 1,2-Dichloropropane                  | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| cis-1,3-Dichloropropene              | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| trans-1,3-Dichloropropene            | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Ethylbenzene                         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Methylene Chloride                   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Styrene                              | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2,2-Tetrachloroethane            | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Tetrachloroethene                    | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Toluene                              | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,1-Trichloroethane                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2-Trichloroethane                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichloroethene                      | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichlorofluoromethane               | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Vinyl Chloride                       | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| p,m-Xylene                           | 0.002        | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| o-Xylene                             | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Acetone                              | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Butanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| Carbon disulfide                     | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Hexanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 4-Methyl-2-pentanone                 | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| <b>GC/MS Semi-Volatile Organics</b>  |              |       |       |        |         |          |
| Acenaphthene                         | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Acenaphthylene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Anthracene                           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzidine                            | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)anthracene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(b)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(k)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(ghi)perylene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)pyrene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethoxy)methane           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethyl)ether              | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chlorisopropyl)ether           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |



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**FECL #: AA40667 (Continued)**  
**Tag: SS-A**  
**Date/Time Collected: 10/30/96 12:10**  
**Matrix: Liquid**

| Analysis  | Results      | Units | MDL  | Method | Analyst | Date Run |
|---|--------------|-------|------|--------|---------|----------|
| <b>Organics (Continued)</b>                     |              |       |      |        |         |          |
| <b>GC/MS Semi-Volatile Organics (Continued)</b> |              |       |      |        |         |          |
| Bis(2-ethylhexyl)phthalate                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Bromophenyl phenyl ether                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Butyl benzyl phthalate                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Chloronaphthalene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Chloro-3-methylphenol                         | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Chlorophenol                                  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Chlorophenyl phenyl ether                     | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Chrysene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Dibenzo(ah)anthracene                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Di-n-butyl phthalate                            | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,2-Dichlorobenzene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,3-Dichlorobenzene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,4-Dichlorobenzene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 3,3'-Dichlorobenzidine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dichlorophenol                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Diethyl phthalate                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Dimethyl phthalate                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4,6-Dinitro-2-methylphenol                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,6-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Di-n-octyl phthalate                            | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluoranthene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluorene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobenzene                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobutadiene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorocyclopentadiene                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachloroethane                                | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Ideno(1,2,3-cd)pyrene                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Isophorone                                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Naphthalene                                     | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Nitrobenzene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitroso-di-n-butylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |



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**FECL #: AA40667 (Continued)**

**Tag: SS-A**

**Date/Time Collected: 10/30/96 12:10**

**Matrix: Liquid**

| Analysis  | Results      | Units | MDL  | Method | Analyst | Date Run |
|---|--------------|-------|------|--------|---------|----------|
| <b>Organics (Continued)</b>                     |              |       |      |        |         |          |
| <b>GC/MS Semi-Volatile Organics (Continued)</b> |              |       |      |        |         |          |
| N-Nitrosodimethylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodiphenylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodi-n-propylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pentachlorophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenanthrene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenol  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pyrene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,2,4-Trichlorobenzene                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4,6-Trichlorophenol                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dimethylphenol                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |

**FECL #: AA40668**

**Tag: SS-B**

**Date/Time Collected: 10/30/96 15:30**

**Matrix: Liquid**

| Analysis        | Results      | Units | MDL    | Method   | Analyst | Date Run |
|-----------------|--------------|-------|--------|----------|---------|----------|
| <b>Metals</b>   |              |       |        |          |         |          |
| Arsenic         | 0.003        | mg/L  | 0.001  | 200.8    | P R     | 11/08/96 |
| Barium          | 0.06         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Cadmium         | Not detected | mg/L  | 0.0002 | 200.8    | P R     | 11/08/96 |
| Chromium        | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Copper          | Not detected | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| Lead            | Not detected | mg/L  | 0.003  | 200.8    | P R     | 11/08/96 |
| Mercury         | Not detected | mg/L  | 0.0002 | 245.1    | E B     | 11/03/96 |
| Selenium        | Not detected | mg/L  | 0.005  | 200.8    | P R     | 11/08/96 |
| Silver          | Not detected | mg/L  | 0.0005 | 200.8    | P R     | 11/08/96 |
| Zinc            | 0.03         | mg/L  | 0.01   | 200.8    | P R     | 11/08/96 |
| <b>Organics</b> |              |       |        |          |         |          |
| BNA Extraction  | Completed    |       |        | 625/8270 | S G     | 11/06/96 |
| Extraction, PCB | Completed    |       |        |          | JKB     | 11/06/96 |
| PCB             | Not detected | mg/L  | 0.0001 | 608      | JB      | 11/07/96 |



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FECL #: AA40668 (Continued)

Tag: SS-B

Date/Time Collected: 10/30/96 15:30

Matrix: Liquid

| Analysis                    | Results      | Units | MDL   | Method | Analyst | Date Run |
|-----------------------------|--------------|-------|-------|--------|---------|----------|
| <b>Organics (Continued)</b> |              |       |       |        |         |          |
| <b>Volatile Organics</b>    |              |       |       |        |         |          |
| Benzene                     | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Bromodichloromethane        | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Bromoform                   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Bromomethane                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Carbon tetrachloride        | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chlorobenzene               | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chloroethane                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 2-Chloroethylvinyl ether    | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chloroform                  | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Chloromethane               | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Dibromochloromethane        | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,2-Dichlorobenzene         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,3-Dichlorobenzene         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,4-Dichlorobenzene         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1-Dichloroethane          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,2-Dichloroethane          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1-Dichloroethene          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| cis-1,2-Dichloroethene      | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| trans-1,2-Dichloroethene    | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,2-Dichloropropane         | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| cis-1,3-Dichloropropene     | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| trans-1,3-Dichloropropene   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Ethylbenzene                | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Methylene Chloride          | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Styrene                     | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2,2-Tetrachloroethane   | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Tetrachloroethene           | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Toluene                     | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,1-Trichloroethane       | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| 1,1,2-Trichloroethane       | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichloroethene             | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Trichlorofluoromethane      | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Vinyl Chloride              | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| p,m-Xylene                  | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |



Analytical Laboratory Report  
Roy F. Weston, Inc.  
November 12, 1996

FECL #: AA40668 (Continued)

Tag: SS-B

Date/Time Collected: 10/30/96 15:30

Matrix: Liquid

| Analysis                             | Results      | Units | MDL   | Method | Analyst | Date Run |
|--------------------------------------|--------------|-------|-------|--------|---------|----------|
| <b>Organics (Continued)</b>          |              |       |       |        |         |          |
| <b>Volatile Organics (Continued)</b> |              |       |       |        |         |          |
| o-Xylene                             | Not detected | mg/L  | 0.001 | 8260   | VFM     | 11/03/96 |
| Acetone                              | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Butanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| Carbon disulfide                     | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 2-Hexanone                           | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| 4-Methyl-2-pentanone                 | Not detected | mg/L  | 0.05  | 8260   | VFM     | 11/03/96 |
| <b>GC/MS Semi-Volatile Organics</b>  |              |       |       |        |         |          |
| Acenaphthene                         | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Acenaphthylene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Anthracene                           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzidine                            | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)anthracene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(b)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(k)fluoranthene                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(ghi)perylene                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Benzo(a)pyrene                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethoxy)methane           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chloroethyl)ether              | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-chlorisopropyl)ether           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Bis(2-ethylhexyl)phthalate           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 4-Bromophenyl phenyl ether           | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Butyl benzyl phthalate               | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 2-Chloronaphthalene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 4-Chloro-3-methylphenol              | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 2-Chlorophenol                       | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 4-Chlorophenyl phenyl ether          | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Chrysene                             | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Dibenzo(ah)anthracene                | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| Di-n-butyl phthalate                 | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 1,2-Dichlorobenzene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 1,3-Dichlorobenzene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 1,4-Dichlorobenzene                  | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 3,3'-Dichlorobenzidine               | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |
| 2,4-Dichlorophenol                   | Not detected | mg/L  | 0.01  | 8270   | JB      | 11/11/96 |



Analytical Laboratory Report  
Roy F. Weston, Inc.  
November 12, 1996

**FECL #: AA40668 (Continued)**  
**Tag: SS-B**  
**Date/Time Collected: 10/30/96 15:30**  
**Matrix: Liquid**

| Analysis  | Results      | Units | MDL  | Method | Analyst | Date Run |
|---|--------------|-------|------|--------|---------|----------|
| <b>Organics (Continued)</b>                     |              |       |      |        |         |          |
| <b>GC/MS Semi-Volatile Organics (Continued)</b> |              |       |      |        |         |          |
| Diethyl phthalate                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Dimethyl phthalate                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4,6-Dinitro-2-methylphenol                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,6-Dinitrotoluene                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Di-n-octyl phthalate                            | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluoranthene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Fluorene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobenzene                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorobutadiene                             | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachlorocyclopentadiene                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Hexachloroethane                                | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Ideno(1,2,3-cd)pyrene                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Isophorone                                      | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Naphthalene                                     | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Nitrobenzene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 4-Nitrophenol                                   | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitroso-di-n-butylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodimethylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodiphenylamine                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| N-Nitrosodi-n-propylamine                       | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pentachlorophenol                               | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenanthrene                                    | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Phenol  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| Pyrene  | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 1,2,4-Trichlorobenzene                          | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4,6-Trichlorophenol                           | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |
| 2,4-Dimethylphenol                              | Not detected | mg/L  | 0.01 | 8270   | JB      | 11/11/96 |



Analytical Laboratory Report  
Roy F. Weston, Inc.  
November 12, 1996

Note: Methods may be modified for improved performance.  
Results reported on a dry weight basis, where applicable.  
Results relate only to items tested.  
Report shall not be reproduced except in full, without the written approval of FECL.

*Violetta F. Murshak* 9.6

**Violetta F. Murshak**  
**Laboratory Director**



# Fire & Environmental Consulting Laboratories, Inc.

One East Complex 1451 East Lansing Drive, Suite 222 East Lansing, MI 48823  
Phone (517) 332-0167 Fax (517) 332-6333

## QC Report

Report Date: November 12, 1996

FECL #(s): AA40661-AA40668

Client: Roy F. Weston, Inc.

Project #: 01138-079-001 GM

P.O. #: Verbal

Date: 11.12.96

Here is the QC report that corresponds to the above referenced analytical report. If you have any further questions concerning this data, please do not hesitate to call me at 517-332-0167.

Sincerely,

A handwritten signature in cursive script, appearing to read "Maya Murshak", is written over the "Sincerely," text.

Maya Murshak  
QA Officer

**FECL Organics Quality Control - Cover Page**  
**GC/MS Batch Quality Control: Volatile Organics, SW-846 #8260**

Data File.....: c:\hpchem\1\data\961103A1.qcd  
 Configuration File.....: c:\hpchem\1\data\full\_h\_w.qcc  
 Number of Samples.....: 19  
 Date of First Sample....: 11/03/96  
 Date of Last Sample.....: 11/04/96

**GC/MS Samples Included in QC Batch**

| File ID   | Time  | Date  |                       |     |       |
|-----------|-------|-------|-----------------------|-----|-------|
| bfb.d     | 10:58 | 11/03 | BFB                   |     |       |
| spcc.d    | 11:25 | 11/03 | SPCC/CCC              | CCC | SPCC  |
| Bfb-bl.d  | 11:52 | 11/03 | BFB/BLANK             |     |       |
| 40659.d   | 12:19 | 11/03 | ENE01 \$BTX826W;6820W |     | MSDup |
| 40659d.d  | 12:47 | 11/03 | ENE01 \$BTX826W;6820W |     | Dup   |
| 40659m.d  | 13:14 | 11/03 | ENE01 \$BTX826W;6820W |     | MS    |
| b11.d     | 13:42 | 11/03 | Blank                 |     | M-Blk |
| 40658.d   | 14:09 | 11/03 | ENE01 \$BTX826W;6820W |     |       |
| b12.d     | 14:36 | 11/03 | Blank                 |     |       |
| 40661.d   | 15:04 | 11/03 | WES04 \$8260W         |     |       |
| 40662.d   | 15:31 | 11/03 | WES04 \$8260W         |     |       |
| b13.d     | 15:59 | 11/03 | Blank                 |     |       |
| 40663.d   | 16:26 | 11/03 | WES04 \$8260W         |     |       |
| b14.d     | 16:53 | 11/03 | Blank                 |     |       |
| 40664.d   | 17:21 | 11/03 | WES04 \$8260W         |     |       |
| b15.d     | 17:48 | 11/03 | Blank                 |     |       |
| 40665.d   | 18:15 | 11/03 | WES04 \$8260W         |     |       |
| b16.d     | 18:43 | 11/03 | Blank                 |     |       |
| 40666.d   | 19:10 | 11/03 | WES04 \$8260W         |     |       |
| b17.d     | 19:37 | 11/03 | Blank                 |     |       |
| 40667.d   | 20:04 | 11/03 | WES04 \$8260W         |     |       |
| 40668.d   | 20:32 | 11/03 | WES04 \$8260W         |     |       |
| 40750.d   | 20:59 | 11/03 | SME-BAY \$BTX826W     |     |       |
| BFB2.d    | 21:26 | 11/03 | BFB 25ug/l            |     |       |
| spcc2.d   | 21:54 | 11/03 | SPCC/CCC              |     |       |
| Bfb-bl2.d | 22:21 | 11/03 | BFB/BLANK             |     |       |
| 40681.d   | 22:48 | 11/03 | SME-KAL \$BTX826W     |     |       |
| 40682.d   | 23:15 | 11/03 | SME-KAL \$BTX826W     |     |       |
| 40683.d   | 23:43 | 11/03 | SME-KAL \$BTX826W     |     |       |
| 40686.d   | 01:17 | 11/04 | SME-KAL \$BTX826W     |     |       |
| 40687.d   | 01:44 | 11/04 | SME-KAL \$BTX826W     |     |       |
| 40688.d   | 02:11 | 11/04 | SME-KAL \$BTX826W     |     |       |
| 40684.d   | 12:10 | 11/04 | SME-KAL \$BTX826W     |     |       |
| 40685.d   | 12:50 | 11/04 | SME-KAL \$BTX826W     |     |       |

KEY - CCC: Calibration Check Compounds      M-Blk: Method Blank  
 SPCC: System Performance Check Compounds    R-Blk: Reagent Blank (optional)  
 MS: Matrix Spike                                Dup: Duplicate  
 MSS: Matrix Spike Sample                      S-Dup: Duplicate Sample  
 MSD: Matrix Spike Duplicate (optional)

Analyst.....: VFM/Sr

**FECL Organics Quality Control - QC Page 1 of 2**  
**GC/MS Batch Quality Control: Volatile Organics, SW-846 #8260**

Data File.....: c:\hpchem\1\data\961103A1.qcd  
 Configuration File.....: c:\hpchem\1\data\full\_h\_w.qcc  
 Number of Samples.....: 19  
 Date of First Sample....: 11/03/96  
 Date of Last Sample.....: 11/04/96

| Calibration Check Compounds (CCC) |           |            | File ID: spcc.d | 11:25 11/03 |            |
|-----------------------------------|-----------|------------|-----------------|-------------|------------|
| Compound                          | True(ppb) | Found(ppb) | Recovery(%)     | EPA LCL(%)  | EPA UCL(%) |
| Vinyl Chloride (CCC)              | 25.0      | 21.8       | 87.3            | 80.0        | 120.0      |
| 1,1-Dichloroethene (              | 25.0      | 21.7       | 86.7            | 80.0        | 120.0      |
| Chloroform (CCC)                  | 25.0      | 28.2       | 112.8           | 80.0        | 120.0      |
| 1,2-Dichloropropane               | 25.0      | 28.0       | 112.1           | 80.0        | 120.0      |
| Toluene (CCC/MS)                  | 25.0      | 24.5       | 97.8            | 80.0        | 120.0      |
| Ethylbenzene (CCC)                | 25.0      | 24.6       | 98.4            | 80.0        | 120.0      |

| System Performance Check Compounds (SPCC) |           |            | File ID: spcc.d | 11:25 11/03 |            |
|---|-----------|------------|-----------------|-------------|------------|
| Compound                                  | True(ppb) | Found(ppb) | Area(-)         | RF(-)       | EPA LCL(-) |
| Chloromethane (SPCC)                      | 25.0      | 11.3       | 947809          | 0.299       | 0.100      |
| 1,1-Dichloroethane (                      | 25.0      | 27.7       | 8368728         | 1.074       | 0.100      |
| Chlorobenzene (SPCC/                      | 25.0      | 23.0       | 8977828         | 1.113       | 0.300      |
| Bromoform (SPCC)                          | 25.0      | 26.8       | 4128156         | 0.440       | 0.100      |
| 1,1,2,2-Tetrachloroe                      | 25.0      | 23.8       | 6101206         | 0.731       | 0.300      |

| Matrix Spike Compounds (MS) |            |            | MS ID: 40659m.d  | 13:14 11/03 |            |            |
|-----------------------------|------------|------------|------------------|-------------|------------|------------|
|                             |            |            | Samp.ID: 40659.d | 12:19 11/03 |            |            |
| Compound                    | Spike(ppb) | Samp.(ppb) | MS(ppb)          | Recovery(%) | EPA LCL(%) | EPA UCL(%) |
| 1,1-Dichloroethene (        | 50.0       | 0.0        | 44.6             | 89.2        | 71.0       | 129.0      |
| Benzene (MS)                | 50.0       | 0.0        | 46.6             | 93.2        | 71.0       | 129.0      |
| Trichloroethene (MS)        | 50.0       | 0.0        | 48.0             | 96.0        | 71.0       | 129.0      |
| Toluene (CCC/MS)            | 50.0       | 0.0        | 47.1             | 94.2        | 71.0       | 129.0      |
| Chlorobenzene (SPCC/        | 50.0       | 0.0        | 50.0             | 100.1       | 71.0       | 129.0      |

**FECL Organics Quality Control - QC Page 1 of 2**  
**GC/MS Batch Quality Control: Volatile Organics, SW-846 #8260**

Data File.....: c:\hpchem\1\data\961103A2.qcd  
 Configuration File.....: c:\hpchem\1\data\full\_h\_w.qcc  
 Number of Samples.....: 19  
 Date of First Sample....: 11/03/96  
 Date of Last Sample.....: 11/04/96

**Calibration Check Compounds (CCC) File ID: spcc2.d 21:54 11/03**

| Compound             | True(ppb) | Found(ppb) | Recovery(%) | EPA LCL(%) | EPA UCL(%) |
|----------------------|-----------|------------|-------------|------------|------------|
| Vinyl Chloride (CCC) | 25.0      | 24.7       | 98.8        | 80.0       | 120.0      |
| 1,1-Dichloroethene ( | 25.0      | 23.1       | 92.3        | 80.0       | 120.0      |
| Chloroform (CCC)     | 25.0      | 26.2       | 104.9       | 80.0       | 120.0      |
| 1,2-Dichloropropane  | 25.0      | 28.7       | 114.7       | 80.0       | 120.0      |
| Toluene (CCC/MS)     | 25.0      | 25.4       | 101.4       | 80.0       | 120.0      |
| Ethylbenzene (CCC)   | 25.0      | 25.2       | 100.7       | 80.0       | 120.0      |

**System Performance Check Compounds (SPCC) File ID: spcc2.d 21:54 11/03**

| Compound             | True(ppb) | Found(ppb) | Area(-) | RF(-) | EPA LCL(-) |
|----------------------|-----------|------------|---------|-------|------------|
| Chloromethane (SPCC) | 25.0      | 12.4       | 790952  | 0.299 | 0.100      |
| 1,1-Dichloroethane ( | 25.0      | 23.3       | 5368147 | 1.074 | 0.100      |
| Chlorobenzene (SPCC/ | 25.0      | 24.3       | 8319867 | 1.114 | 0.300      |
| Bromoform (SPCC)     | 25.0      | 27.8       | 3756273 | 0.440 | 0.100      |
| 1,1,2,2-Tetrachloroe | 25.0      | 26.3       | 5910808 | 0.731 | 0.300      |

**Matrix Spike Compounds (MS) MS ID: 40659m.d 13:14 11/03**  
**Samp.ID: 40659.d 12:19 11/03**

| Compound             | Spike(ppb) | Samp.(ppb) | MS(ppb) | Recovery(%) | EPA LCL(%) | EPA UCL(%) |
|----------------------|------------|------------|---------|-------------|------------|------------|
| 1,1-Dichloroethene ( | 50.0       | 0.0        | 44.6    | 89.2        | 71.0       | 129.0      |
| Benzene (MS)         | 50.0       | 0.0        | 46.6    | 93.2        | 71.0       | 129.0      |
| Trichloroethene (MS) | 50.0       | 0.0        | 48.0    | 96.0        | 71.0       | 129.0      |
| Toluene (CCC/MS)     | 50.0       | 0.0        | 47.1    | 94.2        | 71.0       | 129.0      |
| Chlorobenzene (SPCC/ | 50.0       | 0.0        | 50.0    | 100.1       | 71.0       | 129.0      |

**FECL Organics Quality Control - QC Page 2 of 2**  
**GC/MS Batch Quality Control: Volatile Organics, SW-846 #8260**

Data File.....: c:\hpchem\1\data\961103A1.qcd  
 Configuration File.....: c:\hpchem\1\data\full\_h\_w.qcc  
 Number of Samples.....: 19  
 Date of First Sample....: 11/03/96  
 Date of Last Sample.....: 11/04/96

**Blank Samples**

**MetB ID: b11.d 13:42 11/03**

**Duplicate Samples**

**ReaB ID: n/a**

**Dup ID: 40659d.d 12:47 11/03**

**Samp.ID: 40659.d 12:19 11/03**

| Compound             | MetB(ppb) | ReaB(ppb) | Dup(ppb) | Sample(ppb) | RPD(%) | UCL(%) | MDL(ppb) |
|----------------------|-----------|-----------|----------|-------------|--------|--------|----------|
| Dichlorodifluorometh | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Chloromethane (SPCC) | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Vinyl Chloride (CCC) | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Bromomethane         | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Chloroethane         | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Trichlorofluorometha | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Ethanol              | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| Diethyl Ether (Ether | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| Acetone              | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| 1,1-Dichloroethene ( | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Allyl Chloride       | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| Acetonitrile         | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| Methyl iodide        | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| Methylene Chloride   | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Carbon disulfide     | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| t-Methyl Butyl Ether | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| Acrolein (Propenal)  | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| Acrylonitrile        | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| trans-1,2-Dichloroet | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,1-Dichloroethane ( | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 2-Butanone (MEK)     | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| Propionitrile        | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| Methacrylonitrile    | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| 2,2-Dichloropropane  | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| cis-1,2-Dichloroethe | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Methylacrylate       | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| Chloroform (CCC)     | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Bromochloromethane   | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Tetrahydrofuran      | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| 1,1,1-Trichloroethan | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,1-Dichloropropene  | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Carbon Tetrachloride | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Benzene (MS)         | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,2-Dichloroethane   | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Trichloroethene (MS) | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,2-Dichloropropane  | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Methyl methacrylate  | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| 1,1-Dichloropropanon | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| 2-Nitropropane       | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| Bromodichloromethane | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Dibromomethane       | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,4-Dioxane          | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| 4-Methyl-2-pentanone | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| 2-Chloroethyl Vinyl  | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| cis-1,3-Dichloroprop | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Toluene (CCC/MS)     | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| trans-1,3-Dichloropr | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,1,2-Trichloroethan | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Ethyl methacrylate   | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| 2-Hexanone           | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| Tetrachloroethane    | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| n-Butyl Acetate      | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| 1,3-Dichloropropane  | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Dibromochloromethane | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,2-Dibromomethane   | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Chlorobenzene (SPCC/ | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,1,1,2-Tetrachloroe | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Ethylbenzene (CCC)   | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| p,m-Xylene           | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| o-Xylene             | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Styrene              | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Isopropylbenzene     | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Bromoform (SPCC)     | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,1,2,2-Tetrachloroe | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,2,3-Trichloropropa | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| n-Propylbenzene      | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Bromobenzene         | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Nitrobenzene         | nd        |           | nd       | nd          |        | 25.0   | 50.0     |
| 1,3,5-Trimethylbenze | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 2-Chlorotoluene      | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 4-Chlorotoluene      | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Pentachloroethane    | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| tert-Butylbenzene    | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,2,4-Trimethylbenze | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| sec-Butylbenzene     | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| p-Isopropyltoluene   | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,3-Dichlorobenzene  | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,4-Dichlorobenzene  | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,2-Dichlorobenzene  | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Benzyl Chloride      | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| n-Butylbenzene       | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Hexachloroethane     | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,2-Dibromo-3-Chloro | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,2,4-Trichlorobenze | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Hexachlorobutadiene  | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| Naphthalene          | nd        |           | nd       | nd          |        | 25.0   | 1.0      |
| 1,2,3-Trichlorobenze | nd        |           | nd       | nd          |        | 25.0   | 1.0      |



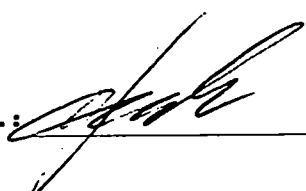
**FECL Organics Quality Control - Cover Page**  
**GC/MS Batch Quality Control: Base/Neutral/Acid (8270)**

Data File.....: c:\hpchem\1\data\961111W.qcd  
 Configuration File.....: c:\hpchem\1\data\bna\_w.qcc  
 Number of Samples.....: 20  
 Date of First Sample....: 11/11/96  
 Date of Last Sample.....: 11/12/96

**GC/MS Samples Included in QC Batch**

| File ID   | Time  | Date  |         |       |       |
|-----------|-------|-------|---------|-------|-------|
| b50.d     | 14:35 | 11/11 | BNA50   |       | CCC   |
| Blw.d     | 15:18 | 11/11 | BLANK   | WATER | M-Blk |
| 40661.d   | 16:01 | 11/11 | 1L/lml  |       |       |
| 40662.d   | 16:44 | 11/11 | 1L/lml  |       |       |
| 40663.d   | 17:26 | 11/11 | 1L/lml  |       |       |
| 40664.d   | 18:09 | 11/11 | 1L/lml  |       |       |
| 40665.d   | 18:51 | 11/11 | 1L/lml  |       | S-Dup |
| 40665d.d  | 19:33 | 11/11 | 1L/lml  | DUP   | Dup   |
| 40666.d   | 20:15 | 11/11 | 1L/lml  |       |       |
| mw40666.d | 20:58 | 11/11 | 1L/lml  | MS100 | MS    |
| 40667.d   | 21:40 | 11/11 | 1L/lml  |       |       |
| 40668.d   | 22:22 | 11/11 | 1L/lml  |       |       |
| 40552.d   | 23:04 | 11/11 | 870/lml | SPLP  |       |
| 40777.d   | 23:46 | 11/11 | 870/lml | SPLP  |       |
| 40627.d   | 00:28 | 11/12 | 900/lml |       |       |
| 40628.d   | 01:10 | 11/12 | 1L/lml  |       |       |
| 40629.d   | 01:52 | 11/12 | 1L/lml  |       |       |
| 40630.d   | 02:35 | 11/12 | 900/lml |       |       |
| 40631.d   | 03:17 | 11/12 | 1L/lml  |       |       |
| 40632.d   | 04:00 | 11/12 | 1L/lml  |       |       |
| 40633.d   | 04:43 | 11/12 | 1L/lml  |       |       |
| 40634.d   | 05:26 | 11/12 | 1L/lml  |       |       |
| w.d       | 06:09 | 11/12 | WASH    |       |       |
| d2.d      | 06:52 | 11/12 | DFTPP   |       |       |
| b502.d    | 07:35 | 11/12 | BNA50   |       |       |
| ms.d      | 08:17 | 11/12 | MS100   |       |       |
| BlS.d     | 08:59 | 11/12 | BLANK   | SOIL  |       |
| 40698.d   | 10:56 | 11/12 | 30g/lml |       |       |

KEY - CCC: Calibration Check Compounds                    M-Blk: Method Blank  
 SPCC: System Performance Check Compounds                R-Blk: Reagent Blank (optional)  
 MS: Matrix Spike    Dup: Duplicate  
 MSS: Matrix Spike Sample                                    S-Dup: Duplicate Sample  
 MSD: Matrix Spike Duplicate (optional)

Analyst.....: 

**FECL Organics Quality Control - QC Page 1 of 2**  
**GC/MS Batch Quality Control: Base/Neutral/Acid (8270)**

Data File.....: c:\hpchem\1\data\961111W.qcd  
 Configuration File.....: c:\hpchem\1\data\bna\_w.qcc  
 Number of Samples.....: 20  
 Date of First Sample....: 11/11/96  
 Date of Last Sample.....: 11/12/96

**Calibration Check Compounds (CCC)** **File ID: b50.d** **14:35 11/11**

| Compound             | True(ppb) | Found(ppb) | Recovery(%) | EPA LCL(%) | EPA UCL(%) |
|----------------------|-----------|------------|-------------|------------|------------|
| 2-Fluorophenyl       | 50.0      | 53.0       | 106.0       | 80.0       | 120.0      |
| Phenol-d5            | 50.0      | 55.3       | 110.6       | 80.0       | 120.0      |
| Phenol               | 50.0      | 55.3       | 110.6       | 80.0       | 120.0      |
| 2-Chlorophenol       | 50.0      | 55.6       | 111.2       | 80.0       | 120.0      |
| 1,4-Dichlorobenzene  | 50.0      | 54.4       | 108.7       | 80.0       | 120.0      |
| N-Nitrosodi-n-propyl | 50.0      | 53.1       | 106.2       | 80.0       | 120.0      |
| Nitrobenzene-d5      | 50.0      | 51.2       | 102.5       | 80.0       | 120.0      |
| 1,2,4-Trichlorobenze | 50.0      | 51.3       | 102.5       | 80.0       | 120.0      |
| 4-Chlor-3-methylphen | 50.0      | 56.5       | 113.1       | 80.0       | 120.0      |
| 2-Fluorobiphenyl     | 50.0      | 49.7       | 99.4        | 80.0       | 120.0      |
| Acenaphthene         | 50.0      | 53.5       | 107.0       | 80.0       | 120.0      |
| 4-Nitrophenol        | 50.0      | 43.7       | 87.4        | 80.0       | 120.0      |
| 2,4-Dinitrotoluene   | 50.0      | 50.5       | 101.0       | 80.0       | 120.0      |
| 2,4,6-Tribromophenol | 50.0      | 43.8       | 87.7        | 80.0       | 120.0      |
| Pentachlorophenol    | 50.0      | 43.1       | 86.3        | 80.0       | 120.0      |
| Pyrene               | 50.0      | 49.2       | 98.4        | 80.0       | 120.0      |
| Terphenyl-d14        | 50.0      | 46.2       | 92.3        | 80.0       | 120.0      |

**Matrix Spike Compounds (MS)** **MS ID: mw40666.d** **20:58 11/11**  
**Samp.ID: n/a**

| Compound             | Spike(ppb) | Samp.(ppb) | MS(ppb) | Recovery(%) | EPA LCL(%) | EPA UCL(%) |
|----------------------|------------|------------|---------|-------------|------------|------------|
| Phenol               | 100.0      | 0.0        | 67.7    | 67.7        | 5.0        | 112.0      |
| 2-Chlorophenol       | 100.0      | 0.0        | 75.2    | 75.2        | 23.0       | 134.0      |
| 1,4-Dichlorobenzene  | 100.0      | 0.0        | 65.5    | 65.5        | 20.0       | 124.0      |
| N-Nitrosodi-n-propyl | 100.0      | 0.0        | 65.2    | 65.2        | 1.0        | 230.0      |
| 1,2,4-Trichlorobenze | 100.0      | 0.0        | 70.8    | 70.8        | 44.0       | 142.0      |
| 4-Chlor-3-methylphen | 100.0      | 0.0        | 86.4    | 86.4        | 22.0       | 147.0      |
| Acenaphthene         | 100.0      | 0.0        | 72.1    | 72.1        | 47.0       | 145.0      |
| 4-Nitrophenol        | 100.0      | 0.0        | 81.6    | 81.6        | 1.0        | 132.0      |
| 2,4-Dinitrotoluene   | 100.0      | 0.0        | 78.9    | 78.9        | 39.0       | 139.0      |
| Pentachlorophenol    | 100.0      | 0.0        | 78.1    | 78.1        | 14.0       | 176.0      |
| Pyrene               | 100.0      | 0.0        | 106.2   | 106.2       | 52.0       | 115.0      |

**FECL Organics Quality Control - QC Page 2 of 2**  
**GC/MS Batch Quality Control: Base/Neutral/Acid (8270)**

Data File.....: c:\hpchem\1\data\961111W.qcd  
 Configuration File.....: c:\hpchem\1\data\bna\_w.qcc  
 Number of Samples.....: 20  
 Date of First Sample....: 11/11/96  
 Date of Last Sample....: 11/12/96

**Blank Samples**

**MetB ID: blw.d 15:18 11/11**

**Duplicate Samples**

**ReaB ID: n/a**

**Dup ID: 40665d.d 19:33 11/11**

**Samp.ID: 40665.d 18:51 11/11**

| Compound             | MetB(ppb) | ReaB(ppb) | Dup(ppb) | Sample(ppb) | RPD(%) | UCL(%) | MDL(ppb) |
|----------------------|-----------|-----------|----------|-------------|--------|--------|----------|
| N-Nitrosodimethylami | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Phenol               | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 2-Chlorophenol       | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Bis(2-chloroethyl)et | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 1,3-Dichlorobenzene  | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 1,4-Dichlorobenzene  | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 1,2-Dichlorobenzene  | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Bis(2-chloroisopropy | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Hexachloroethane     | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| N-Nitrosodi-n-propyl | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Nitrobenzene         | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Isophorone           | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 2-Nitrophenol        | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 2,4-Dimethylphenol   | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Bis(2-chloroethoxy)m | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 2,4-Dichlorophenol   | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 1,2,4-Trichlorobenze | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Naphthalene          | nd        |           | 24.6     | 21.9        | 12.0   | 25.0   | 10.0     |
| Hexachlorobutadiene  | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 4-Chlor-3-methylphen | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Hexachlorocyclopenta | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 2,4,6-Trichloropheno | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 2-Chloronaphthalene  | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Acenaphthylene       | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Dimethyl Phthalate   | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 2,6-Dinitrotoluene   | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Acenaphthene         | 10.0      |           | 10.1     | 10.1        | 1.2    | 25.0   | 10.0     |
| 2,4-Dinitrophenol    | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 4-Nitrophenol        | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 2,4-Dinitrotoluene   | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Fluorene             | 10.4      |           | 10.1     | 10.1        | 3.2    | 25.0   | 10.0     |
| Diethylphthalate     | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 4-Chlorophenyl pheny | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 2,4-Dinitro-2-methyl | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| N-Nitroso-diphenylam | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Azobenzene           | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 4-Bromophenyl phenyl | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Hexachlorobenzene    | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Pentachlorophenol    | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Phenanthrene         | 16.2      |           | 15.8     | 15.8        | 2.6    | 25.0   | 10.0     |
| Anthracene           | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| di-N-butyl phthalate | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Fluoranthene         | 10.9      |           | 10.5     | 10.5        | 3.6    | 25.0   | 10.0     |
| Benzidine            | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Pyrene               | 13.7      |           | 12.6     | 12.6        | 8.4    | 25.0   | 10.0     |
| Butyl benzyl phthala | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| TCDD                 | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Benzo(a)anthracene   | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| 3,3'-Dichlorobenzidi | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Chrysene             | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Bis(2-ethylhexyl)pht | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Di-n-octyl phthalate | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Benzo(b)fluoranthene | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Benzo(k)fluoranthene | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Benzo(a)pyrene       | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Indeno(1,2,3-cd)pyre | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Dibenzo(a,h)anthrace | nd        |           | nd       | nd          |        | 25.0   | 10.0     |
| Benzo(g,h,i)perylene | nd        |           | nd       | nd          |        | 25.0   | 10.0     |



FIRE & ENVIRONMENTAL CONSULTING LABORATORIES, INC. (FECL)

QUALITY CONTROL SUMMARY

Date: 11/7/96

EPA METHOD: 608/8080

Analyst: Janusz B.

FECL#: 40705-7, 40661-8, 40568-9, 40610, 40627-34  
 5705929

Page 1 of 2

| Analyte:<br>PCB / Particles | Calibration<br>Verification µg/L |       |               | Spike Sample Recovery<br>µg/L |                  |                 |          | Duplicate Spike Sample Recovery<br>µg |                 |          |     |               |
|-----------------------------|----------------------------------|-------|---------------|-------------------------------|------------------|-----------------|----------|---------------------------------------|-----------------|----------|-----|---------------|
| Date Run                    | 11/7                             |       |               | 11/7                          |                  |                 |          | N/A                                   |                 |          |     |               |
| Sample #:                   | 2 13                             |       |               | 15 14                         |                  |                 |          |                                       |                 |          |     |               |
| COMPOUNDS                   | True<br>Value                    | Found | % Rec<br>& RP | Spike<br>added                | Sample<br>Result | Spike<br>Sample | %<br>Rec | Sample<br>Result                      | Spike<br>Sample | %<br>Rec | RPD | EPA<br>Limits |
| Aroclor 1016                |                                  |       |               |                               |                  |                 |          |                                       |                 |          |     | 90-114        |
| Aroclor 1221                |                                  |       |               |                               |                  |                 |          |                                       |                 |          |     | 15-178        |
| Aroclor 1232                |                                  |       |               |                               |                  |                 |          |                                       |                 |          |     | 10-315        |
| Aroclor 1243                |                                  |       |               |                               |                  |                 |          |                                       |                 |          |     | 39-150        |
| Aroclor 1248                |                                  |       |               |                               |                  |                 |          |                                       |                 |          |     | 39-150        |
| Aroclor 1254                | 1000                             | 1038  | 104           | 1000                          | ND               | 1216            | 121      |                                       |                 |          |     | 39-131        |
| Aroclor 1260                |                                  |       |               |                               |                  |                 |          |                                       |                 |          |     | 8-127         |
| γ-BCH (Lindane)             | 100                              | 104   | 104           | 100                           | ND               | 69              |          |                                       |                 |          |     | 23-127        |
| Heptachlor                  |                                  | 106   | 106           |                               |                  | 62              |          |                                       |                 |          |     | 34-111        |
| Alrin                       |                                  | 105   | 105           |                               |                  | 61              |          |                                       |                 |          |     | 4-123         |
| Dieldrin                    |                                  | 105   | 105           |                               |                  | 72              |          |                                       |                 |          |     | 36-146        |
| Endrin                      |                                  | 107   | 107           |                               |                  | 81              |          |                                       |                 |          |     | 30-147        |
| 4,4'-DDT                    |                                  | 104   | 104           |                               |                  | 92              |          |                                       |                 |          |     | 25-160        |

| ANALYSIS         | BLANK  |         | DUPLICATE     |           |     |           |
|------------------|--------|---------|---------------|-----------|-----|-----------|
| PCB / Pesticides |        |         | # L           |           |     |           |
| Date Recd        | 11/7   |         | 11/7          |           |     |           |
| Sample #         | 10     |         | 25 26         |           |     |           |
| COMPOUNDS        | Method | Reagent | Sample Result | Duplicate | RPD | EPA Units |
| Aroclor 1016     | ND     | ND      | ND            | ND        | 0   | 0.20      |
| Aroclor 1221     |        |         |               |           |     | 0.20      |
| Aroclor 1232     |        |         |               |           |     | 0.20      |
| Aroclor 1243     |        |         |               |           |     | 0.20      |
| Aroclor 1248     |        |         |               |           |     | 0.20      |
| Aroclor 1254     |        |         |               |           |     | 0.20      |
| Aroclor 1260     |        |         |               |           |     | 0.20      |
| γ-BCH (Lindane)  |        |         |               |           |     | 0.20      |
| Heptachlor       |        |         |               |           |     | 0.20      |
| Aldrin           |        |         |               |           |     | 0.20      |
| Dieldrin         |        |         |               |           |     | 0.20      |
| Zedrin           |        |         |               |           |     | 0.20      |
| 4'-DDT           |        |         |               |           |     | 0.20      |
| Other            | ↓      | ↓       | ↓             | ↓         | ↓   | 0.20      |

RPD = Relative % Deviation μg = microgram RF = Response Factor

# Metals Quality Control

## Cover Page

Date of Analysis ...: Nov 7 1996

Run ID .....: 110796.-2

Analyst .....: Paul Roettger

### FECL SAMPLE NUMBERS(S)

### NOTES:

1) 40389-40401

2) 40493-40496

3) 40505-40507

4) 40542

5) 40579

6) 40595

7) 40609

8) 40618-40620

9) 40661-40668

10) 40689

11) 40749

12) 40839

13) 40909

14) 40911

15) \_\_\_\_\_

16) \_\_\_\_\_

17) \_\_\_\_\_

18) \_\_\_\_\_

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20) \_\_\_\_\_

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# Metals Quality Control

## Initial and Continuing Calibration Verification

Date: Nov 7 1996

Run ID: 110796.-2

Units: mg/L

| Metal    | Initial Calibration <sup>1</sup> |        |     | Continuing Calibration <sup>2</sup> |        |     | Blank Spike |        |     |
|----------|----------------------------------|--------|-----|-------------------------------------|--------|-----|-------------|--------|-----|
|          | True                             | Found  | %R  | True                                | Found  | %R  | True        | Found  | %R  |
| Arsenic  | 0.1000                           | 0.0979 | 98  | 0.0500                              | 0.0501 | 100 | 0.0100      | 0.0095 | 95  |
| Barium   | 0.1000                           | 0.1011 | 101 | 0.0500                              | 0.0532 | 106 | 0.0200      | 0.0197 | 99  |
| Cadmium  | 0.1000                           | 0.0990 | 99  | 0.0500                              | 0.0489 | 98  | 0.0100      | 0.0101 | 101 |
| Chromium | 0.1000                           | 0.0993 | 99  | 0.0500                              | 0.0539 | 108 | 0.0100      | 0.0102 | 102 |
| Copper   | 0.1000                           | 0.1004 | 100 | 0.0500                              | 0.0492 | 98  | 0.0100      | 0.0096 | 96  |
| Lead     | 0.1000                           | 0.1003 | 100 | 0.0500                              | 0.0499 | 100 | 0.0100      | 0.0101 | 101 |
| Nickel   | 0.1000                           | 0.0986 | 99  | 0.0500                              | 0.0503 | 101 | 0.0100      | 0.0104 | 104 |
| Selenium | 0.1000                           | 0.0927 | 93  | 0.0500                              | 0.0467 | 93  | 0.0200      | 0.0184 | 92  |
| Silver   | 0.0500                           | 0.0515 | 103 | 0.0250                              | 0.0251 | 100 | 0.0100      | 0.0099 | 99  |
| Zinc     | 0.1000                           | 0.0999 | 100 | 0.0500                              | 0.0489 | 98  | 0.0100      | 0.0093 | 93  |

<sup>1</sup> Initial Calibration Source: PLASMA CHEM

<sup>2</sup> Continuing Calibration Source: SPEX

**Metals Quality Control**  
**Multiple Continuing Calibration Verification**

Date: Nov 7 1996

Run ID: 110796.-2

Units: mg/L

| Metal    | Contin. Calibration 2* |        |     | Contin. Calibration 3* |        |     | Contin. Calibration 4* |        |     |
|----------|------------------------|--------|-----|------------------------|--------|-----|------------------------|--------|-----|
|          | True                   | Found  | %R  | True                   | Found  | %R  | True                   | Found  | %R  |
| Arsenic  | 0.0500                 | 0.0490 | 98  | 0.0500                 | 0.0509 | 102 | 0.0500                 | 0.0514 | 103 |
| Barium   | 0.0500                 | 0.0491 | 98  | 0.0500                 | 0.0525 | 105 | 0.0500                 | 0.0508 | 102 |
| Cadmium  | 0.0500                 | 0.0522 | 104 | 0.0500                 | 0.0511 | 102 | 0.0500                 | 0.0505 | 101 |
| Chromium | 0.0500                 | 0.0506 | 101 | 0.0500                 | 0.0494 | 99  | 0.0500                 | 0.0500 | 100 |
| Copper   | 0.0500                 | 0.0516 | 103 | 0.0500                 | 0.0515 | 103 | 0.0500                 | 0.0509 | 102 |
| Lead     | 0.0500                 | 0.0494 | 99  | 0.0500                 | 0.0510 | 102 | 0.0500                 | 0.0497 | 99  |
| Nickel   | 0.0500                 | 0.0509 | 102 | 0.0500                 | 0.0500 | 100 | 0.0500                 | 0.0510 | 102 |
| Selenium | 0.0500                 | 0.0535 | 107 | 0.0500                 | 0.0530 | 106 | 0.0500                 | 0.0511 | 102 |
| Silver   | 0.0250                 | 0.0253 | 101 | 0.0250                 | 0.0262 | 105 | 0.0250                 | 0.0241 | 96  |
| Zinc     | 0.0500                 | 0.0506 | 101 | 0.0500                 | 0.0502 | 100 | 0.0500                 | 0.0487 | 97  |

\* Continuing Calibration Source: SPEX

**Metals Quality Control**  
**Multiple Continuing Calibration Verification**

Date: Nov 7 1996

Run ID: 110796.-2

Units: mg/L

| Metal    | Contin. Calibration 5* |        |     | Contin. Calibration 6* |        |     | Contin. Calibration 7* |       |    |
|----------|------------------------|--------|-----|------------------------|--------|-----|------------------------|-------|----|
|          | True                   | Found  | %R  | True                   | Found  | %R  | True                   | Found | %R |
| Arsenic  | 0.0500                 | 0.0521 | 104 | 0.1000                 | 0.1019 | 102 |                        |       |    |
| Barium   | 0.0500                 | 0.0510 | 102 | 0.1000                 | 0.1082 | 108 |                        |       |    |
| Cadmium  | 0.0500                 | 0.0522 | 104 | 0.1000                 | 0.0987 | 99  |                        |       |    |
| Chromium | 0.0500                 | 0.0515 | 103 | 0.1000                 | 0.1091 | 109 |                        |       |    |
| Copper   | 0.0500                 | 0.0499 | 100 | 0.1000                 | 0.1051 | 105 |                        |       |    |
| Lead     | 0.0500                 | 0.0489 | 98  | 0.1000                 | 0.0978 | 98  |                        |       |    |
| Nickel   | 0.0500                 | 0.0508 | 102 | 0.1000                 | 0.1047 | 105 |                        |       |    |
| Selenium | 0.0500                 | 0.0504 | 101 | 0.1000                 | 0.1032 | 103 |                        |       |    |
| Silver   | 0.0250                 | 0.0245 | 98  | 0.0500                 | 0.0477 | 95  |                        |       |    |
| Zinc     | 0.0500                 | 0.0510 | 102 | 0.1000                 | 0.1021 | 102 |                        |       |    |

\* Continuing Calibration Source: SPEX

**Metals Quality Control  
Blanks**

**Date:** Nov 7 1996      **Run ID:** 110796.-2

**Units:** mg/L

| <b>Metal</b> | <b>Initial<br/>Calibration Blank</b> | <b>Continuing<br/>Calibration Blank</b> | <b>Matrix<br/>Blank</b> |
|--------------|--------------------------------------|---|-------------------------|
| Arsenic      | <0.001                               | <0.001                                  | <0.001                  |
| Barium       | <0.005                               | <0.005                                  | <0.005                  |
| Cadmium      | <0.0002                              | <0.0002                                 | <0.0002                 |
| Chromium     | <0.005                               | <0.005                                  | <0.005                  |
| Copper       | <0.005                               | <0.005                                  | <0.005                  |
| Lead         | <0.003                               | <0.003                                  | <0.003                  |
| Nickel       | <0.005                               | <0.005                                  | <0.005                  |
| Selenium     | <0.005                               | <0.005                                  | <0.005                  |
| Silver       | <0.0005                              | <0.0005                                 | <0.0005                 |
| Zinc         | <0.005                               | <0.005                                  | <0.005                  |

**Metals Quality Control**  
**Multiple Continuing Calibration Blanks**

Date: Nov 7 1996 Run ID: 110796.-2

Units: mg/L

| Metal    | Continuing Calib.<br>Blank 2 | Continuing Calib.<br>Blank 3 | Continuing Calib.<br>Blank 4 |
|----------|------------------------------|------------------------------|------------------------------|
| Arsenic  | <0.001                       | <0.001                       | <0.001                       |
| Barium   | <0.005                       | <0.005                       | <0.005                       |
| Cadmium  | <0.0002                      | <0.0002                      | <0.0002                      |
| Chromium | <0.005                       | <0.005                       | <0.005                       |
| Copper   | <0.005                       | <0.005                       | <0.005                       |
| Lead     | <0.003                       | <0.003                       | <0.003                       |
| Nickel   | <0.005                       | <0.005                       | <0.005                       |
| Selenium | <0.005                       | <0.005                       | <0.005                       |
| Silver   | <0.0005                      | <0.0005                      | <0.0005                      |
| Zinc     | <0.005                       | <0.005                       | <0.005                       |

**Metals Quality Control**  
**Multiple Continuing Calibration Blanks**

Date: Nov 7 1996 Run ID: 110796.-2

Units: mg/L

| <b>Metal</b> | <b>Continuing Calib.<br/>Blank 5</b> | <b>Continuing Calib.<br/>Blank 6</b> | <b>Continuing Calib.<br/>Blank 7</b> |
|--------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Arsenic      | <0.001                               | <0.001                               |                                      |
| Barium       | <0.005                               | <0.005                               |                                      |
| Cadmium      | <0.0002                              | <0.0002                              |                                      |
| Chromium     | <0.005                               | <0.005                               |                                      |
| Copper       | <0.005                               | <0.005                               |                                      |
| Lead         | <0.003                               | <0.003                               |                                      |
| Nickel       | <0.005                               | <0.005                               |                                      |
| Selenium     | <0.005                               | <0.005                               |                                      |
| Silver       | <0.0005                              | <0.0005                              |                                      |
| Zinc         | <0.005                               | <0.005                               |                                      |

# Metals Quality Control

## Spike Sample Recovery

Date: Nov 7 1996

Run ID: 110796.-2

FECL Number: 40494

Matrix: liquid

Units: mg/L

Dilution Factor: 5

| Metal    | Control Limit<br>% Recovery | Spiked Sample<br>Result (SSR) | Sample<br>Result (SR) | Amount Spike<br>Added (SA) | % Recovery |
|----------|-----------------------------|-------------------------------|-----------------------|----------------------------|------------|
| Arsenic  | 75-125                      | 0.2869                        | 0.0070                | 0.0500                     | 112        |
| Barium   | 75-125                      | 0.2925                        | 0.0660                | 0.0500                     | 91         |
| Cadmium  | 75-125                      | 0.2391                        | 0.0011                | 0.0500                     | 95         |
| Chromium | 75-125                      | 0.2283                        | <0.005                | 0.0500                     | 91         |
| Copper   | 75-125                      | 0.2118                        | <0.005                | 0.0500                     | 85         |
| Lead     | 75-125                      | 0.2297                        | 0.0032                | 0.0500                     | 91         |
| Nickel   | 75-125                      | 0.2699                        | 0.0490                | 0.0500                     | 88         |
| Selenium | 75-125                      | 0.2963                        | <0.005                | 0.0500                     | 119        |
| Silver   | 75-125                      | 0.1294                        | <0.0005               | 0.0250                     | 104        |
| Zinc     | 75-125                      | 0.3308                        | 0.0800                | 0.0500                     | 100        |

Notes ....: 1) \* = out of control

2) % Recovery = [(SSR-SR)/dilution factor/SA] x 100

# Metals Quality Control

## Spike Sample Recovery

Date: Nov 7 1996      Run ID: 110796.-2

FECL Number: 40663      Matrix: liquid      Units: mg/L      Dilution Factor: 5

| Metal    | Control Limit<br>& Recovery | Spiked Sample<br>Result (SSR) | Sample<br>Result (SR) | Amount Spike<br>Added (SA) | % Recovery |
|----------|-----------------------------|-------------------------------|-----------------------|----------------------------|------------|
| Arsenic  | 75-125                      | 0.2902                        | 0.0038                | 0.0500                     | 115        |
| Barium   | 75-125                      | 0.7902                        | 0.5201                | 0.0500                     | 108        |
| Cadmium  | 75-125                      | 0.2855                        | <0.0002               | 0.0500                     | 114        |
| Chromium | 75-125                      | 0.2644                        | <0.005                | 0.0500                     | 106        |
| Copper   | 75-125                      | 0.2600                        | <0.005                | 0.0500                     | 104        |
| Lead     | 75-125                      | 0.2297                        | <0.003                | 0.0500                     | 92         |
| Nickel   | 75-125                      | 0.2867                        | 0.0265                | 0.0500                     | 104        |
| Selenium | 75-125                      | 0.2926                        | <0.005                | 0.0500                     | 117        |
| Silver   | 75-125                      | 0.2374                        | <0.0005               | 0.0500                     | 95         |
| Zinc     | 75-125                      | 0.3257                        | 0.0141                | 0.0500                     | 125        |

Notes ....: 1) \* = out of control  
 2) % Recovery = [(SSR-SR)/dilution factor/SA] x 100

# Metals Quality Control

## Spike Sample Recovery

Date: Nov 7 1996      Run ID: 110796.-2

FECL Number: 40664      Matrix: liquid      Units: mg/L      Dilution Factor: 5

| Metal    | Control Limit<br>% Recovery | Spiked Sample<br>Result (SSR) | Sample<br>Result (SR) | Amount Spike<br>Added (SA) | % Recovery |
|----------|-----------------------------|-------------------------------|-----------------------|----------------------------|------------|
| Arsenic  | 75-125                      | 0.2878                        | 0.0185                | 0.0500                     | 108        |
| Barium   | 75-125                      | 3.2146                        | 2.9800                | 0.0500                     | 94         |
| Cadmium  | 75-125                      | 0.2891                        | <0.0002               | 0.0500                     | 116        |
| Chromium | 75-125                      | 0.2722                        | <0.005                | 0.0500                     | 109        |
| Copper   | 75-125                      | 0.2584                        | <0.005                | 0.0500                     | 103        |
| Lead     | 75-125                      | 0.2340                        | <0.003                | 0.0500                     | 94         |
| Nickel   | 75-125                      | 0.2915                        | 0.0210                | 0.0500                     | 108        |
| Selenium | 75-125                      | 0.2749                        | <0.005                | 0.0500                     | 110        |
| Silver   | 75-125                      | 0.2399                        | <0.0005               | 0.0500                     | 96         |
| Zinc     | 75-125                      | 0.2936                        | 0.0168                | 0.0500                     | 111        |

Notes ....: 1) \* = out of control

2) % Recovery = [(SSR-SR)/dilution factor/SA] x 100

# Metals Quality Control

## Spike Sample Recovery

Date: Nov 7 1996      Run ID: 110796.-2

FECL Number: 40392      Matrix: soil      Units: mg/kg      Dilution Factor: 512

| Metal    | Control Limit<br>& Recovery | Spiked Sample<br>Result (SSR) | Sample<br>Result (SR) | Amount Spike<br>Added (SA) | & Recovery |
|----------|-----------------------------|-------------------------------|-----------------------|----------------------------|------------|
| Arsenic  | 75-125                      | 71.3034                       | 9.4793                | 0.1000                     | 121        |
| Barium   | 75-125                      | 113.0919                      | 54.4440               | 0.1000                     | 115        |
| Cadmium  | 75-125                      | 55.0014                       | 0.2968                | 0.1000                     | 107        |
| Chromium | 75-125                      | 72.7436                       | 9.3204                | 0.1000                     | 124        |
| Copper   | 75-125                      | 84.3744                       | 36.0603               | 0.1000                     | 94         |
| Lead     | 75-125                      | 69.3152                       | 28.9317               | 0.1000                     | 79         |
| Nickel   | 75-125                      | 92.7971                       | 34.2866               | 0.1000                     | 114        |
| Selenium | 75-125                      | 61.5193                       | 0.6475                | 0.1000                     | 119        |
| Silver   | 75-125                      | 48.7352                       | <0.20                 | 0.1000                     | 95         |
| Zinc     | 75-125                      | 117.8731                      | 62.2565               | 0.1000                     | 109        |

Notes ....: 1) \* = out of control

2) % Recovery = [(SSR-SR)/dilution factor/SA] x 100

# Metals Quality Control

## Spike Sample Recovery

Date: Nov 7 1996      Run ID: 110796.-2

FECL Number: 40911      Matrix: liquid      Units: mg/L      Dilution Factor: 25

| Metal    | Control Limit<br>& Recovery | Spiked Sample<br>Result (SSR) | Sample<br>Result (SR) | Amount Spike<br>Added (SA) | % Recovery |
|----------|-----------------------------|-------------------------------|-----------------------|----------------------------|------------|
| Arsenic  | 75-125                      | 1.4723                        | <0.001                | 0.0500                     | 118        |
| Barium   | 75-125                      | 15.9504                       | 14.8038               | 0.0500                     | 92         |
| Cadmium  | 75-125                      | 1.3819                        | <0.0002               | 0.0500                     | 111        |
| Chromium | 75-125                      | 1.3080                        | 0.0228                | 0.0500                     | 103        |
| Copper   | 75-125                      | 1.3423                        | 0.0840                | 0.0500                     | 101        |
| Lead     | 75-125                      | 18.2200                       | 17.1090               | 0.0500                     | 89         |
| Nickel   | 75-125                      | 12.8257                       | 11.4341               | 0.0500                     | 111        |
| Selenium | 75-125                      | 1.4727                        | <0.005                | 0.0500                     | 118        |
| Silver   | 75-125                      | 1.1796                        | <0.0005               | 0.0500                     | 94         |
| Zinc     | 75-125                      | 38.0700                       | 36.6256               | 0.0500                     | 116        |

Notes ....: 1) \* = out of control  
 2) % Recovery = [(SSR-SR)/dilution factor/SA] x 100

# Metals Quality Control

## Duplicates

Date: Nov 7 1996 Run ID: 110796.-2

FECL Number: 40494 Matrix: liquid Units: mg/L

| Metal    | Control Limit % | Sample (S) | Duplicate (D) | RPD |
|----------|-----------------|------------|---------------|-----|
| Arsenic  | ±20             | 0.0070     | 0.0073        | 4   |
| Barium   | ±20             | 0.0660     | 0.0660        | 0   |
| Cadmium  | ±20             | 0.0011     | 0.0011        | 0   |
| Chromium | ±20             | <0.005     | <0.005        | NC  |
| Copper   | ±20             | <0.005     | <0.005        | NC  |
| Lead     | ±20             | 0.0032     | 0.0030        | 6   |
| Nickel   | ±20             | 0.0490     | 0.0491        | 0   |
| Selenium | ±20             | <0.005     | <0.005        | NC  |
| Silver   | ±20             | <0.0005    | <0.0005       | NC  |
| Zinc     | ±20             | 0.0800     | 0.0836        | 4   |

Notes ...: 1) \* = out of control  
2) NC = non calculable due to value(s) less than Control  
3) RPD =  $[|S-D|/((S+D)/2)] \times 100$

# Metals Quality Control

## Duplicates

Date: Nov 7 1996 Run ID: 110796.-2

FECL Number: 40663 Matrix: liquid Units: mg/L

| Metal    | Control Limit % | Sample (S) | Duplicate (D) | RPD |
|----------|-----------------|------------|---------------|-----|
| Arsenic  | ±20             | 0.0038     | 0.0038        | 0   |
| Barium   | ±20             | 0.5201     | 0.5225        | 0   |
| Cadmium  | ±20             | <0.0002    | <0.0002       | NC  |
| Chromium | ±20             | <0.005     | <0.005        | NC  |
| Copper   | ±20             | <0.005     | <0.005        | NC  |
| Lead     | ±20             | <0.003     | <0.003        | NC  |
| Nickel   | ±20             | 0.0265     | 0.0245        | 8   |
| Selenium | ±20             | <0.005     | <0.005        | NC  |
| Silver   | ±20             | <0.0005    | <0.0005       | NC  |
| Zinc     | ±20             | 0.0141     | 0.0143        | 1   |

- Notes ....: 1) \* = out of control  
2) NC = non calculable due to value(s) less than Control  
3) RPD =  $[|S-D|/((S+D)/2)] \times 100$

# Metals Quality Control

## Duplicates

Date: Nov 7 1996 Run ID: 110796.-2

FECL Number: 40664 Matrix: liquid Units: mg/L

| Metal    | Control Limit % | Sample (S) | Duplicate (D) | RPD |
|----------|-----------------|------------|---------------|-----|
| Arsenic  | ±20             | 0.0185     | 0.0182        | 2   |
| Barium   | ±20             | 2.9800     | 2.8749        | 4   |
| Cadmium  | ±20             | <0.0002    | <0.0002       | NC  |
| Chromium | ±20             | <0.005     | <0.005        | NC  |
| Copper   | ±20             | <0.005     | <0.005        | NC  |
| Lead     | ±20             | <0.003     | <0.003        | NC  |
| Nickel   | ±20             | 0.0210     | 0.0221        | 5   |
| Selenium | ±20             | <0.005     | <0.005        | NC  |
| Silver   | ±20             | <0.0005    | <0.0005       | NC  |
| Zinc     | ±20             | 0.0168     | 0.0164        | 2   |

- Notes ...:
- 1) \* = out of control
  - 2) NC = non calculable due to value(s) less than Control
  - 3) RPD =  $[|S-D|/((S+D)/2)] \times 100$

# Metals Quality Control

## Duplicates

Date: Nov 7 1996 Run ID: 110796.-2

FECL Number: 40665 Matrix: liquid Units: mg/L

| Metal    | Control Limit % | Sample (S) | Duplicate (D) | RPD |
|----------|-----------------|------------|---------------|-----|
| Arsenic  | ±20             | <0.001     | <0.001        | NC  |
| Barium   | ±20             | 5.7600     | 5.4475        | 6   |
| Cadmium  | ±20             | <0.0002    | <0.0002       | NC  |
| Chromium | ±20             | <0.005     | <0.005        | NC  |
| Copper   | ±20             | <0.005     | <0.005        | NC  |
| Lead     | ±20             | <0.003     | <0.003        | NC  |
| Nickel   | ±20             | 0.0132     | 0.0145        | 9   |
| Selenium | ±20             | <0.005     | <0.005        | NC  |
| Silver   | ±20             | <0.0005    | <0.0005       | NC  |
| Zinc     | ±20             | 0.0210     | 0.0200        | 5   |

- Notes ...:
- 1) \* = out of control
  - 2) NC = non calculable due to value(s) less than Control
  - 3) RPD =  $[|S-D|/((S+D)/2)] \times 100$

# Metals Quality Control

## Duplicates

Date: Nov 7 1996 Run ID: 110796.-2

FECL Number: 40911 Matrix: liquid Units: mg/L

| Metal    | Control Limit % | Sample (S) | Duplicate (D) | RPD |
|----------|-----------------|------------|---------------|-----|
| Arsenic  | ±20             | <0.001     | <0.001        | NC  |
| Barium   | ±20             | 14.8038    | 14.6114       | 1   |
| Cadmium  | ±20             | <0.0002    | <0.0002       | NC  |
| Chromium | ±20             | 0.0228     | 0.0206        | 10  |
| Copper   | ±20             | 0.0840     | 0.0804        | 4   |
| Lead     | ±20             | 17.1090    | 16.8127       | 2   |
| Nickel   | ±20             | 11.4341    | 11.8646       | 4   |
| Selenium | ±20             | <0.005     | <0.005        | NC  |
| Silver   | ±20             | <0.0005    | <0.0005       | NC  |
| Zinc     | ±20             | 36.6256    | 37.0365       | 1   |

Notes ...: 1) \* = out of control  
2) NC = non calculable due to value(s) less than Control  
3) RPD =  $[(S-D)/((S+D)/2)] \times 100$

# Metals Quality Control

## Certification WasteWatR Quality Control Standards

Date: Nov 7 1996 Run ID: 110796.-2

Units: mg/L

Lot No: 9967

| TRACE METALS WasteWatR<br>(Catalog No. 500) | Certified<br>Value | Performance<br>Acceptance Limits | Found  | % Rec |
|---|--------------------|----------------------------------|--------|-------|
| Arsenic                                     | 0.0415             | 0.0311-0.0490                    | 0.0416 | 100   |
| Barium                                      | 0.102              | 0.0836-0.120                     | 0.1000 | 98    |
| Cadmium                                     | 0.212              | 0.174-0.250                      | 0.2150 | 101   |
| Chromium                                    | 0.0976             | 0.0800-0.155                     | 0.0968 | 99    |
| Copper                                      | 0.180              | 0.148-0.212                      | 0.1807 | 100   |
| Lead  | 0.576              | 0.472-0.680                      | 0.5937 | 103   |
| Nickel                                      | 0.141              | 0.116-0.166                      | 0.1361 | 97    |
| Selenium                                    | 0.0732             | 0.0549-0.0864                    | 0.0728 | 99    |
| Silver                                      | 0.0707             | 0.0580-0.0834                    | 0.0709 | 100   |
| Zinc  | 0.312              | 0.256-0.368                      | 0.3016 | 97    |



# Fire & Environmental Consulting Laboratories, Inc.

One East Complex 1451 East Lansing Dr., Suite 222 East Lansing, MI 48823 (517) 332-0167 FAX (517) 332-6333  
 Indianapolis (317) 577-8087 FAX (317) 594-9406

## INVOICE TO

NAME ROY F. WESTON, INC. ATTN: S. Babusukuman  
 ADDRESS 3 Hawthorn Parkway, Suite 400  
 CITY VERNON HILLS STATE IL ZIP CODE 60061  
 P.O. NO. \_\_\_\_\_ PHONE NO. 847-918-4018 FAX NO. 847-918-4055

## CHAIN OF CUSTODY RECORD

## REPORT TO

NAME \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CITY SAME STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_ FAX NO. \_\_\_\_\_

PROJECT NO. 01138-079-001 CLIENT GM  
 SAMPLER (SIGNATURE) M.W. Ren SAMPLER - PLEASE PRINT NAME MIKE REESE  
 AFFILIATION GEOLOGIST - WESTON

PRESERVATIVE CODE E A B A  
 REFRIGERATE (Y/N) \_\_\_\_\_  
 BOTTLE TYPE 2 VOLS 2 IL AMBROS 1 IL AMBROS 2 IL AMBROS  
 SAMPLE TYPE: GW  WW  SW  SOIL   
 SLUDGE  OTHER \_\_\_\_\_  
 CODE: A = NONE, B = HNO<sub>3</sub>, C = H<sub>2</sub>SO<sub>4</sub>, D = NaOH, E = HCL, F = \_\_\_\_\_

| FEC LAB. NO. | SAMPLE COLLECTION YEAR: |      | SAMPLE TAG IDENTIFICATION-DESCRIPTION | TOTAL NO. CONTAINERS |
|--------------|-------------------------|------|---------------------------------------|----------------------|
|              | DATE                    | TIME |                                       |                      |
| 40661        | 10/29/96                | 1417 | GP-01                                 | 5                    |
| 62           | 10/29/96                | 1542 | GP-02                                 | 5                    |
| 63           | 10/29/96                | 1542 | GP-02D                                | 5                    |
| 64           | 10/30/96                | 0930 | GP-03                                 | 5                    |
| 65           | 10/30/96                | 1010 | GP-04                                 | 7                    |
| 66           | 10/30/96                | 0850 | GP-05                                 | 7                    |
| 67           | 10/30/96                | 1210 | SS-A                                  | 5                    |
| ✓ 68         | 10/30/96                | 1530 | SS-B                                  | 5                    |
|              | 10/30/96                | 1153 | SS-C                                  | 5                    |

|   |   |   |   |  | ANALYSES                                 |  |
|---|---|---|---|--|--|--|
| X | X | + |   |  | VOCS, SVOCS, PCBs, METALS                |  |
| X | X | + |   |  | VOCS, SVOCS, PCBs, METALS                |  |
| X | X | X |   |  | VOCS, SVOCS, PCBs, METALS                |  |
| X | X | X |   |  | VOCS, SVOCS, PCBs, METALS                |  |
| X | X | X | X |  | VOCS, SVOCS, PCBs, METALS, DUPLICATE     |  |
| X | X | X | X |  | VOCS, SVOCS, PCBs, METALS, SPIKE         |  |
| X | X | X |   |  | VOCS, SVOCS, PCBs, METALS                |  |
| X | X | X |   |  | VOCS, SVOCS, PCBs, METALS, HOLD SAMPLES. |  |

RELINQUISHED BY: SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_  
 RECEIVED BY: SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_  
 RELINQUISHED BY: SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_  
 RECEIVED BY: SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

RELINQUISHED BY: SIGNATURE M.W. Ren DATE 10/30/96 TIME \_\_\_\_\_  
 RECEIVED AT FECL BY: SIGNATURE Croneghy DATE 10.31.96 TIME 1:00 PM  
 SEAL NO. \_\_\_\_\_ SEAL INTACT YES  NO  INITIALS \_\_\_\_\_  
 SEAL NO. \_\_\_\_\_ SEAL INTACT YES  NO  INITIALS \_\_\_\_\_  
 NOTES: TEMP. ON ARRIVAL \_\_\_\_\_

**ATTACHMENT B**  
**BORING LOGS/WELL CONSTRUCTION DIAGRAMS**

# BORING LOG

**BORING NO.: MW-8S**

PAGE 1 OF 1

Client: General Motors Corporation  
 Project: Additional Groundwater Investigation  
 Site: Linden Road Site, Flint, MI  
 Logger: M. Reese  
 Date Drilled: 29 October 1996  
 Location: \_\_\_\_\_  
 Elevation: \_\_\_\_\_  
 Comments: \_\_\_\_\_

Drilling Company: Mateco  
 Drilling Method: 3.25 in I.D. HSA  
 Borehole Diameter: 8.0 in  
 Total Depth: 15.0 ft  
 Groundwater Data: \_\_\_\_\_  
 Depth during boring: 13.0 ft  
 Depth after boring: 12.7 ft  
 TOC Elevation: \_\_\_\_\_  
 Well Number: MW-8S

| SAMPLE NO. | SAMPLE TYPE | RECOVERY " | SAMPLE BLOWS | DEPTH (ft) | OVM READING | WELL CONSTRUCTION LOG | CLASSIFICATION | SAMPLE INTERVAL | DESCRIPTION   |
|------------|-------------|------------|--------------|------------|-------------|-----------------------|----------------|-----------------|---|
| 1          | CT          |            |              | 1          | 0           |                       |                |                 | Topsoil: brown; silty clay; little sand and gravel; firm; dry.  |
| 2          | CT          |            |              | 2          | 0           |                       |                |                 | FILL: rust colored soil and black, fine-grained, metal grindings.   |
| 3          | CT          |            |              | 3          | 0           |                       |                |                 | SAND & GRAVEL: moderate brown, homogenous; fine- to coarse-grained, sub-angular to sub-rounded quartz sand; cobble to pebble, angular to sub-angular pebble gravel; few fines; loose, moist to wet. |
| 4          | CT          |            |              | 4          | 0           |                       |                |                 |   |
| 5          | CT          |            |              | 5          | 0           |                       |                |                 |   |
| 6          | CT          |            |              | 6          | 0           |                       |                |                 |   |
| 7          | CT          |            |              | 7          | 0           |                       |                |                 | SILTY CLAY: medium gray, homogenous; little sub-angular, chert pebbles; firm, moist.  |
| 8          | CT          |            |              | 8          | 0           |                       |                |                 | SILTY CLAY: as before; wet-saturated.   |
|            |             |            |              | 9          |             |                       |                |                 |   |
|            |             |            |              | 10         |             |                       |                |                 |   |
|            |             |            |              | 11         |             |                       |                |                 |   |
|            |             |            |              | 12         |             |                       |                |                 |   |
|            |             |            |              | 13         |             |                       |                |                 |   |
|            |             |            |              | 14         |             |                       |                |                 |   |
|            |             |            |              | 15         |             |                       |                |                 | End of Boring   |

\*ASTM D1586 CS = CONTINUOUS SAMPLER  
 SS = SPLIT SPOON C = CORE ST = SHELBY TUBE  
 D = DENNISON CT = CUTTINGS BA = BUCKET AUGER

General Motors Corporation  
 Linden Road Site  
 Flint, Genessee County, Michigan

# BORING LOG

**BORING NO.: MW-9S**

PAGE 1 OF 1

Client: General Motors Corporation  
 Project: Additional Groundwater Investigation  
 Site: Linden Road Site, Flint, MI  
 Logger: M. Reese  
 Date Drilled: 29 October 1996  
 Location: \_\_\_\_\_  
 Elevation: \_\_\_\_\_  
 Comments: \_\_\_\_\_

Drilling Company: Mateco  
 Drilling Method: 3.25 in I.D. HSA  
 Borehole Diameter: 8.0 in  
 Total Depth: 10.0 ft  
 Groundwater Data: \_\_\_\_\_  
 Depth during boring: ~8.0 ft  
 Depth after boring: 8.9 ft  
 TOC Elevation: \_\_\_\_\_  
 Well Number: MW-9S

| SAMPLE NO. | SAMPLE TYPE | RECOVERY " | SAMPLE BLOWS | DEPTH (ft) | OVM READING | WELL CONSTRUCTION LOG | CLASSIFICATION | SAMPLE INTERVAL | DESCRIPTION   |
|------------|-------------|------------|--------------|------------|-------------|-----------------------|----------------|-----------------|---|
| 1          | CT          |            |              | 0          |             |                       |                |                 | Topsoil: brown; silty clay; little sand and gravel; firm; dry.  |
|            |             |            |              | 1          |             |                       |                |                 | FILL: rust colored soil and black, fine-grained, metal grindings.   |
| 2          | CT          |            |              | 2          |             |                       |                |                 |   |
|            |             |            |              | 3          |             |                       |                |                 | SAND & GRAVEL: moderate brown, homogenous; fine- to coarse-grained, sub-angular to sub-rounded quartz sand; cobble to pebble, angular to sub-angular pebble gravel; few fines; loose, moist to wet. |
| 3          | CT          |            |              | 4          |             |                       |                |                 |   |
|            |             |            |              | 5          |             |                       |                |                 |   |
| 4          | CT          |            |              | 6          |             |                       |                |                 | SILTY CLAY: medium gray, homogenous; little sub-angular, chert pebbles; firm, wet-saturated.  |
|            |             |            |              | 7          |             |                       |                |                 |   |
| 5          | CT          |            |              | 8          |             |                       |                |                 |   |
|            |             |            |              | 9          |             |                       |                |                 |   |
|            |             |            |              | 10         |             |                       |                |                 | End of Boring   |

\*ASTM D1586 CS = CONTINUOUS SAMPLER  
 SS = SPLIT SPOON C = CORE ST = SHELBY TUBE  
 D = DENNISON CT = CUTTINGS BA = BUCKET AUGER

General Motors Corporation  
 Linden Road Site  
 Flint, Genessee County, Michigan