



Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
708-918-4000 • Fax 708-918-4055

20 December 1993



Mr. Edward E. Peterson
General Motors Corporation
Argonaut "A" - 1004H
485 West Milwaukee Avenue
Detroit, Michigan 48202

Work Order No. 01138-070-001

Re: Interim Remedial Measures Removal Action
Linden Road Landfill Site, Flint, Michigan

Dear Mr. Peterson:

On behalf of AC Rochester Division of General Motors Corporation (GM), Roy F. Weston, Inc. (WESTON®) conducted an Interim Remedial Measures (IRM) removal action at the Linden Road Landfill site, Flint Township, Michigan. This removal action, conducted on 30 November and 1 December 1992, was performed in accordance with the work plan entitled "Work Plan for Interim Remedial Measures Removal Action, Linden Road Landfill Site, Flint Township, Michigan" (WESTON, August 1992). This letter report describes the activities performed during the above-mentioned removal action and includes documentation associated with the transportation and disposal of removed material.

The objective of this removal action was to minimize or prevent potential accidental exposure to surface waste materials from specific areas of the site which may have posed a direct contact threat to human health and the environment. The need for this removal action was identified by an IRM evaluation (IRME) conducted in November 1990. During this evaluation, WESTON identified and characterized waste material and debris present on the surface of the Linden Road Landfill site. The findings of the IRME and recommendations were presented in a report entitled "Interim Remedial Measures Evaluation and Site Investigation Report" (WESTON, March 1992), submitted to the Michigan Department of Natural Resources (MDNR) in March 1992. This report recommended that the IRM removal action discussed in this letter be performed prior to capping and final closure of the Linden Road Landfill site.

In addition to the removal action described in this letter, a steep-sloped depression located on the north central portion of the site (coordinates of N2150, E1600 in Figure 1) was backfilled with clean fill material on 1 December 1992. This action was performed to minimize physical hazards posed by the above-referenced depression.





Mr. Edward E. Peterson
General Motors Corp.

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SURFACE WASTE MATERIAL REMOVAL

As indicated in the IRM Removal Action Work Plan (WESTON, 1992), waste material was removed from the following areas:

- Oil Disposal Area.
- Surface Waste Area 32B.
- Drum Areas 1 and 20.

The surface waste removal areas are shown in Figure 1. Removal activities were performed with a backhoe and a front-end loader operated by two health and safety-trained equipment operators. A WESTON project manager, who was also the site health and safety coordinator, directed the removal operations on site. All health and safety protocols outlined in the IRM work plan were followed. All waste materials removed were placed directly into Department of Transportation (DOT)-approved roll-off boxes positioned adjacent to each of the waste removal areas specified above. The following removal activities were performed at each of the specified areas.

Oil Disposal Area

The contents of the Oil Disposal Area were excavated and placed in three roll-off boxes. During the removal, flyash from the GM plant in Flint was used to solidify the Oil Disposal Area contents. In addition to removing the oily material, soils from the sidewalls and the bottom of the Oil Disposal Area were excavated (12 to 18 inches below the oily waste material) and removed until visually clean underlying soils were exposed. A total of approximately 45 cubic yards of material (including flyash used for solidification) was placed in three roll-off boxes. The excavation was then backfilled to grade with clean fill material obtained from an off-site source. A photoionization detector (HNU) was used to perform air monitoring during the removal action in this area. The HNU readings ranged from background to a maximum of one unit above background in the breathing zone within the Oil Disposal Area during the excavation.

Surface Waste Area 32B

Surface materials removed from this area included a drum containing waste with elevated PCB concentrations (32B/DRM-1), as identified in the IRME report, and drum remnants in the immediate vicinity. Surface soils in the vicinity of the drum containing PCB material were also removed by scraping surface soils to a depth of approximately 6 inches. Approximately 8 cubic yards of material was removed from this area and placed in a

Mr. Edward E. Peterson
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separate DOT-approved roll-off box. The excavated areas were backfilled to grade using clean fill.

Drum Areas 1 and 20

Removal activities in these areas included the excavation and removal of eight drums and drum remnants exposed at the surface at Area 1, and six drums, drum remnants, and associated sludge material from Area 20. Materials removed from Areas 1 and 20 were placed in a single DOT-approved roll-off box. A total volume of approximately 10 cubic yards of surface material was removed from Areas 1 and 20. The excavated areas were backfilled to grade using clean fill.

WASTE CHARACTERIZATION SAMPLING

Separate waste characterization samples were collected from the contents of each roll-off box. The roll-off box numbers and description of their contents are as follows:

- Roll-off box No. 410310 (material from Areas 1 and 20).
- Roll-off box No. 410380 (material from Area 32B).
- Roll-off box No. 410302 (material from the Oil Disposal Area).
- Roll-off box No. 410303 (material from the Oil Disposal Area).
- Roll-off box No. 410316 (material from the Oil Disposal Area).

A single composite sample representative of the excavated material was collected from each roll-off box and analyzed for total cyanide, density, total solids, pH, ignitability, paint filter test, reactive sulfide, reactivity with water, acid, alkali, toxicity characteristic leachate procedure (TCLP) metals, TCLP volatiles, TCLP semivolatiles, and polychlorinated biphenyls (PCBs). Samples were analyzed by NET Laboratories of Auburn Hills, Michigan.

A copy of the analytical results, along with the chain of custody, is included as Attachment A to this letter. Analytical results indicated that all physical and chemical parameters were below their respective Resource Conservation Recovery Act (RCRA) regulatory limits for classification as hazardous waste pursuant to 40 CFR, Parts 261.20 through 261.24 in all the samples. TCLP metal concentrations were well below RCRA regulatory limits in all the samples. Trichloroethene (TCE) was detected in a representative sample from roll-off box No. 410303 (Oil Disposal Area). The TCE (TCLP) concentration in this sample was at 0.37 mg/L. The RCRA regulatory limit for TCE is 0.5 mg/L, and, therefore, this material is not classified as a characteristic hazardous waste and did not require special management pursuant to 40 CFR Part 268. No other volatile or semivolatile organic compounds were



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detected in any of the five samples representative of the waste materials in the roll-off boxes. The highest PCB concentration detected in any sample was 17.6 mg/kg (in a representative sample from roll-off box No. 410310) indicating that the materials did not require special management pursuant to 40 CFR 761 — Polychlorinated Biphenyls (PCBs) Manufacturing Processing, Distribution in Commerce, and Use Prohibitions.

TRANSPORTATION AND DISPOSAL

GM contracted USPCI to arrange transportation and disposal of the surface waste material. Copies of waste profile sheets prepared by GM are included as Attachment B. The waste materials contained in five roll-off boxes were transported off site and disposed of at two separate permitted land disposal facilities. Waste materials from Areas 1 and 20 and those from Area 32B (roll-off box Nos. 410310 and 410380) were disposed of at USPCI's Grassey Mountain facility located in Olive, Utah. Materials from the Oil Disposal Area contained in the three remaining roll-off boxes (roll-off box Nos. 410302, 410303, and 410316) were disposed of at Municipal Services Corporation's (a USPCI subsidiary) Echo Mountain facility, located in Sawyer, North Dakota. The shipping bills of lading for the five roll-off boxes are included as Attachment C. The Notifications of Waste Acceptance and Certifications of Disposal received from both facilities are included as Attachment D.

If you have any questions or require additional information regarding the IRM removal action at the Linden Road Landfill site, please call either of the undersigned at (708) 918-4000.

Very truly yours,

ROY F. WESTON, INC.

S. Babusukumar, P.G.
Project Manager

Scott D. Springer
Project Director

SB:SDS:amp
Attachments

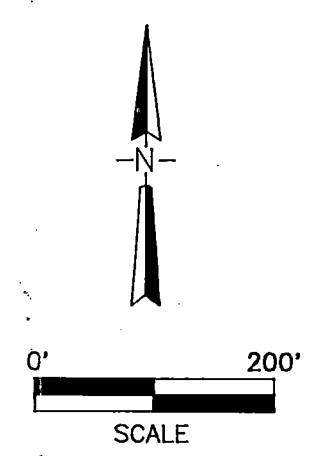
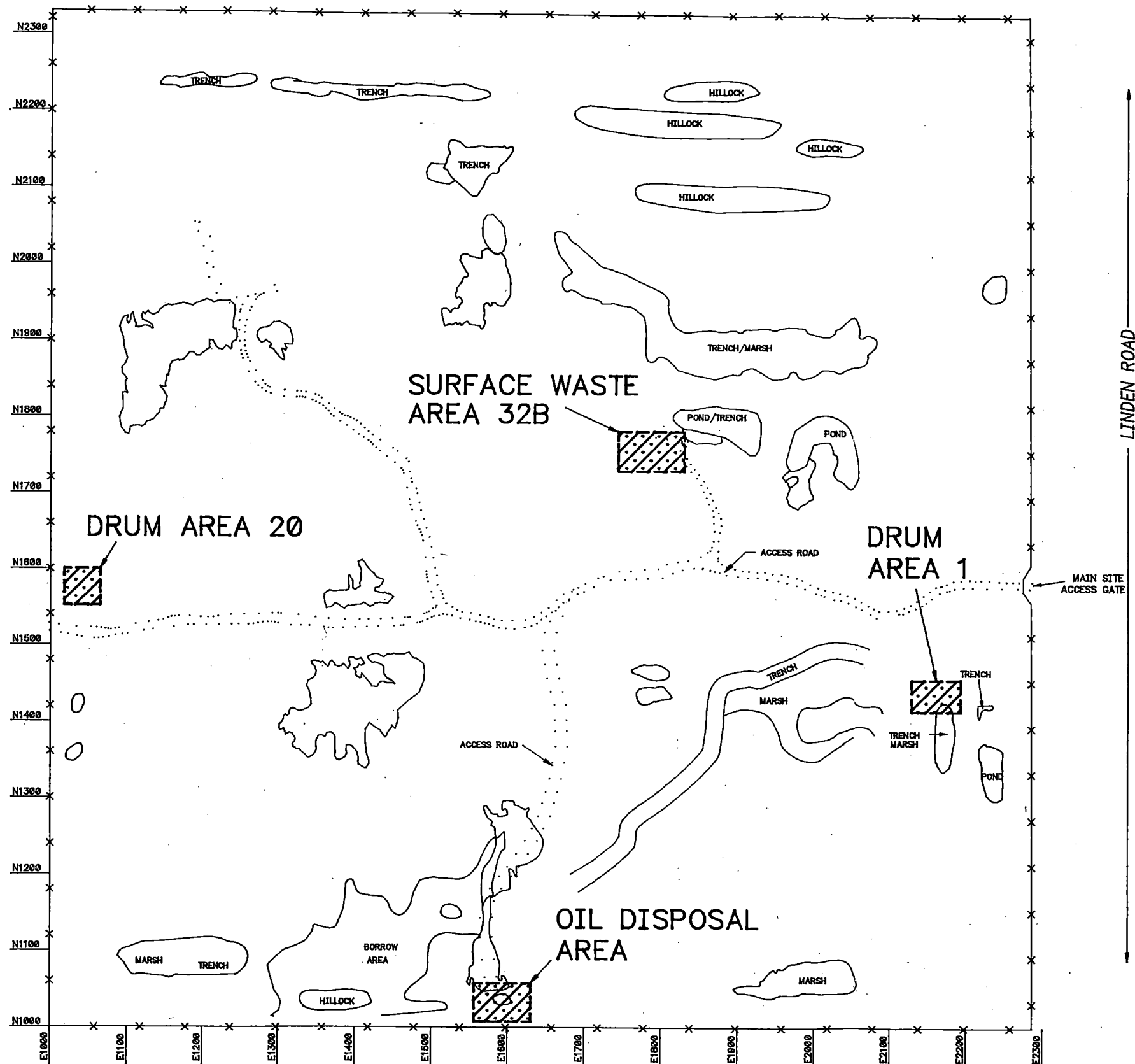


FIGURE 1


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

SITE LAYOUT & IRM WORK AREAS MAP
 IRM REMOVAL ACTION
 LINDEN ROAD LANDFILL
 Flint, Michigan

E1001 G

ATTACHMENT A

ANALYTICAL RESULTS OF WASTE CHARACTERIZATION



NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326
Tel: (313) 391-2050
Fax: (313) 391-9697

CHAIN OF CUSTODY

| | |
|---|---|
| Client GENERAL MOTORS | Project Name GM - Linden Road Landfill IRM |
| Send Report to: RICHARD HUBLER | |
| Address 4800 S. SAGINAW STREET FLINT, MI 48501 | Collected by: Jett. Deigan Roy F. Weston, Inc |
| Telephone # (313) 257-8346 | |

| Collection Information | | | | | | | | Parameters | | | | | | | | | | | | | | | | | |
|------------------------|--------------------|---------|------|-------|------|-------------|------------------|------------|----|--------|-----|------|-----|-------|---------|----------|--------------|----------|-----|--|--|--|--|--|--|
| Sample ID | Sampling Location | Date | Time | GRA B | COMP | Sample Type | No. of Container | TCLP | MI | Metals | Vol | Surf | ACT | PCB's | Density | TOTAL Co | HEAVY METALS | % Solids | PFI | | | | | | |
| IRM-1 | Box 410310 (14-20) | 12/1/92 | | X | | Solid waste | 2-32oz | | | | | | | | | | | | | | | | | | |
| IRM-2 | Box 410380 (32B) | 12/1/92 | | X | | | | | | | | | | | | | | | | | | | | | |
| IRM-3 | Box 410302 (ODA) | 12/1/92 | | X | | | | | | | | | | | | | | | | | | | | | |
| IRM-4 | Box 410303 (ODA) | 12/1/92 | | X | | | | | | | | | | | | | | | | | | | | | |
| IRM-5 | Box 410316 (ODA) | 12/1/92 | | X | | | | | | | | | | | | | | | | | | | | | |

*Must have full ID (see above) on REPORT

Remarks: Note: Possible PCBs in Samples. Verity hits if TCLP HIT + PCBs

Send Report + Invoice to Dick Hubler

| | | | |
|-----------------------------------|-----------------------------------|-------------------------------|-----------------------------------|
| Relinquished by: R. Hubler | Date Time: 12/1/92 5:30 AM | Received by: R. Hubler | Date Time: 1-12-93 5:00 PM |
|-----------------------------------|-----------------------------------|-------------------------------|-----------------------------------|

| | |
|-----------------------------|--|
| Shipping Notes/Lab Comments | Received for NET Midwest by: Roy F. Weston |
|-----------------------------|--|

Samples Field Filtered: Yes No
 Seals Intact Upon Receipt: Yes No N/A



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ANALYTICAL REPORT

Richard Hubler
GMC AC ROCHESTER
4800 South Saginaw Street
Flint, MI 48501

01/04/1993

Job No.: 92.53136
Sample No.: 123565

MBO AEB01425

GM-Linden Road Landfill IRM
Sample Description: IRM-1 Box 410310 (8) (1&20) 12/01

Physical Description: dry, black solids

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|-----------------------------|----------------|---------------------|----------|------------------|--------------|-----------------|
| Cyanide, Total | 1.0 | | mg/kg | 12/29/1992 | dds | 9010 (1) |
| Density | 1.3 | | g/cc | 12/30/1992 | dds | E12 (2) |
| Solids, Total | 69. | | % | 12/18/1992 | akm | 160.3 (3) |
| Corrosivity (pH) | 5.5 | <2.0 or >=12.5 | units | 12/30/1992 | dds | 9040 (1) |
| Ignitability (Flash Point) | >200. | <140 | degree F | 12/28/1992 | sks | 1010 (1) |
| Paint Filter Test | <0.1 | Free Liquid | % | 12/30/1992 | dds | 9095 (1) |
| Reactive Sulfide | <2.0 | 500 | mg/kg | 12/29/1992 | akm | Sec 7.3.4.1 (1) |
| REACTIVITY STATEMENT | | | | | | |
| Reactivity - Water | non - reactive | | | 12/30/1992 | dds | Sec 7.3.2.1 (1) |
| Reactivity - Acid | non - reactive | | | 12/30/1992 | dds | Sec 7.3.2.1 (1) |
| Reactivity - Alkali | non - reactive | | | 12/30/1992 | dds | Sec 7.3.2.1 (1) |

Susan K. Scott

Susan K. Scott
Project Manager





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| Parameter | Result | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|--------------|--------|---------------------|-------|------------------|--------------|-------------|
| PCBs | | | | | | |
| Aroclor-1016 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1221 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1232 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1242 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1248 | 8.7 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1254 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1260 | 8.9 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |

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| Parameter | Result | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|----------------------|---------|---------------------|------|------------------|--------------|-------------|
| METALS - TCLP | | | | | | |
| Arsenic | <0.20 | 5.0 | mg/L | 12/18/1992 | jbb | 6010 (1) |
| Barium | 2.2 | 100.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Cadmium | 0.08 | 1.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Chromium | 0.05 | 5.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Copper | 0.19 | 100.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Lead | 0.78 | 5.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Mercury | <0.0005 | 0.2 | mg/L | 12/18/1992 | rjk | 7471 (1) |
| Nickel | 0.66 | -- | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Selenium | <0.50 | 1.0 | mg/L | 12/18/1992 | jbb | 6010 (1) |
| Silver | <0.02 | 5.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Zinc | 11. | 500.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |

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GM-Linden Road Landfill IRM

Sample Description: IRM-1 Box 410310 (8) (1&20) 12/01

Physical Description: dry, black solids

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Detection Limit | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|---------------------------|--------|-----------------|------------------|------|---------------|-----------|-------------|
| VOLATILE COMPOUNDS - TCLP | | | | | | | |
| Benzene | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Carbon tetrachloride | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Chlorobenzene | ND | <0.20 | 100.0 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Chloroform | ND | <0.20 | 6.0 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| 1,4-Dichlorobenzene | ND | <0.20 | 7.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| 1,2-Dichloroethane | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| 1,1-Dichloroethene | ND | <0.20 | 0.7 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Methyl ethyl ketone | ND | <0.20 | 200.0 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Tetrachloroethene | ND | <0.20 | 0.7 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Trichloroethene | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Vinyl chloride | ND | <0.20 | 0.2 | mg/L | 12/15/1992 | pmc | 8260 (1) |

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Date Received: 12/09/1992

| Parameter | Result | Detection Limit | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|-------------------------------|--------|-----------------|------------------|------|---------------|-----------|-------------|
| BASE NEUTRAL COMPOUNDS - TCLP | | | | | | | |
| 2,4-Dinitrotoluene | ND | <0.10 | 0.13 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Hexachlorobenzene | ND | <0.10 | 0.13 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Hexachlorobutadiene | ND | <0.10 | 0.5 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Hexachloroethane | ND | <0.10 | 3.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Nitrobenzene | ND | <0.10 | 2.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Pyridine | ND | <0.10 | 5.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| ACID COMPOUNDS - TCLP | | | | | | | |
| 3-Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 2-Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 4-Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Pentachlorophenol | ND | <0.10 | 100.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 2,4,5-Trichlorophenol | ND | <0.10 | 400.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 2,4,6-Trichlorophenol | ND | <0.10 | 2.0 | mg/L | 12/30/1992 | tws | 8270 (1) |

ND indicates the analyte was not detected at the detection limit (DL) specified for this sample.

Susan K. Scott
Susan K. Scott
Project Manager





Client: GMC AC ROCHESTER
Sample Number: 123565
Sample Description: IRM-1 Box 410310 (8) (1&20) 12/01

01/04/1993

TCLP WASTE CHARACTERIZATION
QC SUMMARY REPORT ATTACHMENT

| Parameter | Original Sample Concentration | Parameter Spike Concentration | Found Spike Sample Concentration | Expected Spike Sample Concentration | % Recovery |
|---|-------------------------------|-------------------------------|----------------------------------|-------------------------------------|------------|
| Arsenic, mg/L | <0.20 | 2.0 | 1.9 | 2.0 | 95 |
| Barium, mg/L | 2.2 | 10. | 11. | 10. | 110 |
| Cadmium, mg/L | 0.08 | 1.0 | 0.92 | 1.0 | 92 |
| Chromium, mg/L | 0.05 | 2.0 | 2.0 | 2.0 | 100 |
| Copper, mg/L | 0.19 | 10. | 9.8 | 10. | 98 |
| Lead, mg/L | 0.78 | 2.0 | 1.9 | 2.0 | 95 |
| Mercury, mg/L | <0.0005 | 0.10 | 0.093 | 0.10 | 93 |
| Nickel, mg/L | 0.66 | 2.0 | 1.8 | 2.0 | 90 |
| Selenium, mg/L | <0.50 | 1.0 | 0.90 | 1.0 | 90 |
| Silver, mg/L | <0.02 | 2.0 | 1.6 | 2.0 | 80 |
| Zinc, mg/L | 11. | 50. | 50. | 50. | 100 |
| Benzene-d ₆ , mg/L | <0.20 | 1.00 | 1.02 | 1.00 | 102 |
| Carbon Tetrachloride- ¹³ C ₁ , mg/L | <0.20 | 1.00 | 0.98 | 1.00 | 98 |
| Chlorobenzene-d ₁ , mg/L | <0.20 | 1.00 | 0.96 | 1.00 | 96 |
| Chloroform-d ₁ , mg/L | <0.20 | 1.00 | 0.96 | 1.00 | 96 |
| 1,4-Dichlorobenzene-d ₄ , mg/L | <0.20 | 1.00 | 0.86 | 1.00 | 86 |
| 1,2-Dichloroethane-d ₁ , mg/L | <0.20 | 1.00 | 0.72 | 1.00 | 72 |
| 1,1-Dichloroethene-d ₂ , mg/L | <0.20 | 1.00 | 0.64 | 1.00 | 64 |
| Methyl Ethyl Ketone-d ₅ , mg/L | <0.20 | 1.00 | 1.04 | 1.00 | 104 |
| Tetrachloroethene- ¹³ C ₁ , mg/L | <0.20 | 1.00 | 1.00 | 1.00 | 100 |
| Trichloroethene-d ₁ , mg/L | <0.20 | 1.00 | 1.00 | 1.00 | 100 |
| Vinyl Chloride-d ₃ , mg/L | <0.20 | 1.00 | 0.98 | 1.00 | 98 |
| 2,4-Dinitrotoluene-3,5,6-d ₃ , mg/L | <0.10 | 1.00 | 0.57 | 1.00 | 57 |
| Hexachlorobenzene- ¹³ C ₆ , mg/L | <0.10 | 1.00 | 0.71 | 1.00 | 71 |
| Hexachlorobutadiene- ¹³ C ₄ , mg/L | <0.10 | 1.00 | 0.41 | 1.00 | 41 |
| Hexachloroethane- ¹³ C ₁ , mg/L | <0.10 | 1.00 | 0.46 | 1.00 | 46 |
| Nitrobenzene- ¹³ C ₆ , mg/L | <0.10 | 1.00 | 0.63 | 1.00 | 63 |
| Pyridine-d ₅ , mg/L | <0.10 | 1.00 | 0.19 | 1.00 | 19 |
| 2-Cresol-d ₄ , mg/L | <0.10 | 1.00 | 0.40 | 1.00 | 40 |
| 4-Cresol-d ₄ , mg/L | <0.10 | 1.00 | 0.28 | 1.00 | 28 |
| Pentachlorophenol- ¹³ C ₆ , mg/L | <0.10 | 1.00 | 0.67 | 1.00 | 67 |
| 2,4,6-Trichlorophenol-3,5-d ₂ , mg/L | <0.10 | 1.00 | 0.37 | 1.00 | 37 |
| 2,4,5-Trichlorophenol-3,6-d ₂ , mg/L | <0.10 | 1.00 | 0.54 | 1.00 | 54 |

TCLP Extraction Data: Leaching Solution Used 1
Leaching Volume 3000 ml
Leaching Weight 150 g
Final pH 5.2

TCLP ZHE Data: Leaching Solution Used 1
Leaching Volume 500 ml
Leaching Weight 25 g





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TESTING, INC.

Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326
Tel: (313) 391-2050
Fax: (313) 391-9698

METHODOLOGY

- (1) EPA SW846, "Test Methods for Evaluating Solid Wastes".
- (2) ASTM, "American Society for Testing Materials".
- (3) EPA 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes".
- (4) "Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
- (5) 40 CFR, Part 136; reprinted in EPA 600/4-82-057, "Methods for Organic Analyses of Municipal and Industrial Wastewaters."
- (6) 40 CFR, Part 763;
- (7) "Standard Methods for the Examination of Water and Wastewater", 16th Edition, 1985.
- (8) Methods of Air Sampling and Analysis, 2nd. Edition.
- (9) DNR, "Michigan Department of Natural Resources Laboratory Manual for Wastewater Treatment Plant Operators".
- (10) EPA Procedures Manual for Groundwater Monitoring at Solid Waste Disposal Facilities EPA/530/SW-611

UNITS OF CONVERSION

ppm (part per million) = mg/kg, mg/L, ug/g, ug/mL

ppb (part per billion) = ug/kg, ug/L

% = ppm divided by 10,000





NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326
Tel: (313) 391-2050
Fax: (313) 391-9697

CHAIN OF CUSTODY

| | |
|---|--|
| Client GENERAL MOTORS | Project Name GM - Linden Road Landfill IRM |
| Send Report to: RICHARD HUBLER | |
| Address 4800 S. SAGINAW STREET FLINT, MI 48901 | Collected by: Jett Deigan Roy F. Weston, Inc |
| Telephone # (313) 257-8346 | |

| Collection Information | | | | | | | | Parameters | | | | | | | | | | | | |
|------------------------|--------------------|---------|------|-------|------|-------------|------------------|------------|---------|------|-------|------|---------|----------|----------------|----------|-----|--|--|--|
| Sample ID | Sampling Location | Date | Time | GRA B | COMP | Sample Type | No. of Container | METALS | | | OTHER | | | | | | | | | |
| | | | | | | | | TCP | -METALS | -VAL | ACT | PCBs | Density | TOTAL Cu | REACT. SULFIDE | % Solids | PFT | | | |
| IRM-1 | Box 410310 (14-20) | 12/1/92 | | X | | Solid Wash | 2-32oz | | | | | | | | | | | | | |
| IRM-2 | Box 410380 (32B) | 12/1/92 | | X | | | | | | | | | | | | | | | | |
| IRM-3 | Box 410302 (ODA) | 12/1/92 | | X | | | | | | | | | | | | | | | | |
| IRM-4 | Box 410303 (ODA) | 12/1/92 | | X | | | | | | | | | | | | | | | | |
| IRM-5 | Box 410316 (ODA) | 12/1/92 | | X | | | | | | | | | | | | | | | | |

*Must have full ID (see above) on REPORT

Remarks: Note: Possible PCBs in Samples. Verity hits if TCP HIT + PCBs

Send Report + Invoice to Dick Hubler

| | | | |
|-----------------------------------|----------------------------|-------------------------------|---------------------------|
| Relinquished by: <i>R. Bahner</i> | Date Time: 12/1/92 5:00 AM | Received by: <i>R. Hubler</i> | Date Time: 1-7-92 5:00 PM |
|-----------------------------------|----------------------------|-------------------------------|---------------------------|

Shipping Notes/Lab Comments: Received for NET Midwest by: *[Signature]*

Samples Field Filtered: Yes No
 Seals Intact Upon Receipt: Yes No N/A



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ANALYTICAL REPORT

Richard Hubler
GMC AC ROCHESTER
4800 South Saginaw Street
Flint, MI 48501

01/04/1993

Job No.: 92.53138
Sample No.: 123567

MBO AEB01425

GM-Linden Road Landfill IRM
Sample Description: IRM-2 Box 410380(7)(32B) 12/01

Physical Description: moist black solid with foil

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|-----------------------------|----------------|---------------------|----------|------------------|--------------|-----------------|
| Cyanide, Total | <1.0 | | mg/kg | 12/29/1992 | dds | 9010 (1) |
| Density | 1.7 | | g/cc | 12/30/1992 | dds | E12 (2) |
| Solids, Total | 76. | | % | 12/18/1992 | akm | 160.3 (3) |
| Corrosivity (pH) | 5.0 | <2.0 or >=12.5 | units | 12/30/1992 | dds | 9040 (1) |
| Ignitability (Flash Point) | >200. | <140 | degree F | 12/28/1992 | sks | 1010 (1) |
| Paint Filter Test | <0.1 | Free Liquid | % | 12/30/1992 | dds | 9095 (1) |
| Reactive Sulfide | <2.0 | 500 | mg/kg | 12/29/1992 | akm | Sec 7.3.4.1 (1) |
| REACTIVITY STATEMENT | | | | | | |
| Reactivity - Water | non - reactive | | | 12/30/1992 | dds | Sec 7.3.2.1 (1) |
| Reactivity - Acid | non - reactive | | | 12/30/1992 | dds | Sec 7.3.2.1 (1) |
| Reactivity - Alkali | non - reactive | | | 12/30/1992 | dds | Sec 7.3.2.1 (1) |

Susan K. Scott

Susan K. Scott
Project Manager





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01/04/1993

Job No.: 92.53138
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GM-Linden Road Landfill IRM.

Sample Description: IRM-2 Box 410380(7)(32B) 12/01

Physical Description: moist black solid with foil

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|--------------|--------|---------------------|-------|------------------|--------------|-------------|
| PCBs | | | | | | |
| Aroclor-1016 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1221 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1232 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1242 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1248 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1254 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1260 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |

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01/04/1993

Job No.: 92.53138
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MBO AEB01425

GM-Linden Road Landfill IRM
Sample Description: IRM-2 Box 410380(7)(32B) 12/01

Physical Description: moist black solid with foil

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|----------------------|---------|---------------------|------|------------------|--------------|-------------|
| METALS - TCLP | | | | | | |
| Arsenic | <0.20 | 5.0 | mg/L | 12/18/1992 | jbb | 6010 (1) |
| Barium | 2.9 | 100.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Cadmium | 0.08 | 1.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Chromium | 0.10 | 5.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Copper | 0.19 | 100.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Lead | 0.14 | 5.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Mercury | <0.0005 | 0.2 | mg/L | 12/18/1992 | rjk | 7471 (1) |
| Nickel | 1.2 | -- | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Selenium | <0.50 | 1.0 | mg/L | 12/18/1992 | jbb | 6010 (1) |
| Silver | <0.02 | 5.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Zinc | 27. | 500.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |

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01/04/1993

Job No.: 92.53138
Sample No.: 123567

MBO AEB01425

GM-Linden Road Landfill IRM
Sample Description: IRM-2 Box 410380(7)(32B) 12/01

Physical Description: moist black solid with foil

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Detection Limit | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|---------------------------|--------|-----------------|------------------|------|---------------|-----------|-------------|
| VOLATILE COMPOUNDS - TCLP | | | | | | | |
| Benzene | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Carbon tetrachloride | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Chlorobenzene | ND | <0.20 | 100.0 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Chloroform | ND | <0.20 | 6.0 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| 1,4-Dichlorobenzene | ND | <0.20 | 7.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| 1,2-Dichloroethane | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| 1,1-Dichloroethene | ND | <0.20 | 0.7 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Methyl ethyl ketone | ND | <0.20 | 200.0 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Tetrachloroethene | ND | <0.20 | 0.7 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Trichloroethene | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Vinyl chloride | ND | <0.20 | 0.2 | mg/L | 12/15/1992 | pmc | 8260 (1) |

Susan K. Scott
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Project Manager





ANALYTICAL REPORT

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01/04/1993

Job No.: 92-53138
Sample No.: 123567

MBO AEB01425

GM-Linden Road Landfill IRM
Sample Description: IRM-2 Box 410380(7)(32B) 12/01

Physical Description: moist black solid with foil

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Detection Limit | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|-------------------------------|--------|-----------------|------------------|------|---------------|-----------|-------------|
| BASE NEUTRAL COMPOUNDS - TCLP | | | | | | | |
| 2,4-Dinitrotoluene | ND | <0.10 | 0.13 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Hexachlorobenzene | ND | <0.10 | 0.13 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Hexachlorobutadiene | ND | <0.10 | 0.5 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Hexachloroethane | ND | <0.10 | 3.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Nitrobenzene | ND | <0.10 | 2.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Pyridine | ND | <0.10 | 5.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| ACID COMPOUNDS - TCLP | | | | | | | |
| 3-Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 2-Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 4-Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Pentachlorophenol | ND | <0.10 | 100.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 2,4,5-Trichlorophenol | ND | <0.10 | 400.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 2,4,6-Trichlorophenol | ND | <0.10 | 2.0 | mg/L | 12/30/1992 | tws | 8270 (1) |

ND indicates the analyte was not detected at the detection limit (DL) specified for this sample.

Susan K. Scott

Susan K. Scott
Project Manager





Client: GMC AC ROCHESTER
Sample Number: 123567
Sample Description: IRM-2 Box 410380(7)(32B) 12/01

01/04/1993

TCLP WASTE CHARACTERIZATION
QC SUMMARY REPORT ATTACHMENT

| Parameter | Original Sample Concentration | Parameter Spike Concentration | Found Spike Sample Concentration | Expected Spike Sample Concentration | % Recovery |
|---|-------------------------------|-------------------------------|----------------------------------|-------------------------------------|------------|
| Arsenic, mg/L | <0.20 | 2.0 | 2.0 | 2.0 | 100 |
| Barium, mg/L | 2.9 | 10. | 11. | 10. | 110 |
| Cadmium, mg/L | 0.08 | 1.0 | 0.92 | 1.0 | 92 |
| Chromium, mg/L | 0.10 | 2.0 | 2.1 | 2.0 | 105 |
| Copper, mg/L | 0.19 | 10. | 9.8 | 10. | 98 |
| Lead, mg/L | 0.14 | 2.0 | 2.0 | 2.0 | 100 |
| Mercury, mg/L | <0.0005 | 0.10 | 0.094 | 0.10 | 94 |
| Nickel, mg/L | 1.2 | 2.0 | 1.9 | 2.0 | 95 |
| Selenium, mg/L | <0.50 | 1.0 | 0.96 | 1.0 | 96 |
| Silver, mg/L | <0.02 | 2.0 | 2.5 | 2.0 | 125 |
| Zinc, mg/L | 27. | 50. | 52. | 50. | 104 |
| Benzene-d ₆ , mg/L | <0.20 | 1.00 | 1.02 | 1.00 | 102 |
| Carbon Tetrachloride- ¹³ C ₁ , mg/L | <0.20 | 1.00 | 0.96 | 1.00 | 96 |
| Chlorobenzene-d ₁ , mg/L | <0.20 | 1.00 | 0.90 | 1.00 | 90 |
| Chloroform-d ₁ , mg/L | <0.20 | 1.00 | 0.94 | 1.00 | 94 |
| 1,4-Dichlorobenzene-d ₄ , mg/L | <0.20 | 1.00 | 0.86 | 1.00 | 86 |
| 1,2-Dichloroethane-d ₁ , mg/L | <0.20 | 1.00 | 0.72 | 1.00 | 72 |
| 1,1-Dichloroethene-d ₂ , mg/L | <0.20 | 1.00 | 0.62 | 1.00 | 62 |
| Methyl Ethyl Ketone-d ₅ , mg/L | <0.20 | 1.00 | 0.86 | 1.00 | 86 |
| Tetrachloroethene- ¹³ C ₁ , mg/L | <0.20 | 1.00 | 0.98 | 1.00 | 98 |
| Trichloroethene-d ₁ , mg/L | <0.20 | 1.00 | 0.96 | 1.00 | 96 |
| Vinyl Chloride-d ₃ , mg/L | <0.20 | 1.00 | 0.88 | 1.00 | 88 |
| 2,4-Dinitrotoluene-3,5,6-d ₃ , mg/L | <0.10 | 1.00 | 0.56 | 1.00 | 56 |
| Hexachlorobenzene- ¹³ C ₆ , mg/L | <0.10 | 1.00 | 0.76 | 1.00 | 76 |
| Hexachlorobutadiene- ¹³ C ₄ , mg/L | <0.10 | 1.00 | 0.51 | 1.00 | 51 |
| Hexachloroethane- ¹³ C ₁ , mg/L | <0.10 | 1.00 | 0.57 | 1.00 | 57 |
| Nitrobenzene- ¹³ C ₆ , mg/L | <0.10 | 1.00 | 0.64 | 1.00 | 64 |
| Pyridine-d ₅ , mg/L | <0.10 | 1.00 | 0.32 | 1.00 | 32 |
| 2-Cresol-d ₄ , mg/L | <0.10 | 1.00 | 0.23 | 1.00 | 23 |
| 4-Cresol-d ₄ , mg/L | <0.10 | 1.00 | 0.16 | 1.00 | 16 |
| Pentachlorophenol- ¹³ C ₆ , mg/L | <0.10 | 1.00 | 0.02 | 1.00 | 02 |
| 2,4,6-Trichlorophenol-3,5-d ₂ , mg/L | <0.10 | 1.00 | 0.56 | 1.00 | 56 |
| 2,4,5-Trichlorophenol-3,6-d ₂ , mg/L | <0.10 | 1.00 | 0.76 | 1.00 | 76 |

TCLP Extraction Data: Leaching Solution Used 1
Leaching Volume 3000 ml
Leaching Weight 150 g
Final pH 5.4

TCLP ZHE Data: Leaching Solution Used 1
Leaching Volume 500 ml
Leaching Weight 25 g





METHODOLOGY

- (1) EPA SW846, "Test Methods for Evaluating Solid Wastes".
- (2) ASTM, "American Society for Testing Materials".
- (3) EPA 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes".
- (4) "Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
- (5) 40 CFR, Part 136; reprinted in EPA 600/4-82-057, "Methods for Organic Analyses of Municipal and Industrial Wastewaters."
- (6) 40 CFR, Part 763;
- (7) "Standard Methods for the Examination of Water and Wastewater", 16th Edition, 1985.
- (8) Methods of Air Sampling and Analysis, 2nd. Edition.
- (9) DNR, "Michigan Department of Natural Resources Laboratory Manual for Wastewater Treatment Plant Operators".
- (10) EPA Procedures Manual for Groundwater Monitoring at Solid Waste Disposal Facilities EPA/530/SW-611

UNITS OF CONVERSION

ppm (part per million) = mg/kg, mg/L, ug/g, ug/mL

ppb (part per billion) = ug/kg, ug/L

% = ppm divided by 10,000





ANALYTICAL REPORT

Richard Hubler
GMC AC ROCHESTER
4800 South Saginaw Street
Flint, MI 48501

01/04/1993

Job No.: 92.53140
Sample No.: 123582

MBO AEB01425

GM-Linden Road Landfill IRM
Sample Description: IRM-3 Box 410302 (ODA) 12/01

Physical Description: moist black solid

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|-----------------------------|----------------|------------------|----------|---------------|-----------|-----------------|
| Cyanide, Total | <1.0 | | mg/kg | 12/29/1992 | dds | 9010 (1) |
| Density | 1.5 | | g/cc | 12/30/1992 | dds | E12 (2) |
| Solids, Total | 73. | | % | 12/18/1992 | akm | 160.3 (3) |
| Corrosivity (pH) | 5.5 | <2.0 or >=12.5 | units | 12/30/1992 | dds | 9040 (1) |
| Ignitability (Flash Point) | >200. | <140 | degree F | 12/28/1992 | sks | 1010 (1) |
| Paint Filter Test | <0.1 | Free Liquid | % | 12/30/1992 | dds | 9095 (1) |
| Reactive Sulfide | <2.0 | 500 | mg/kg | 12/29/1992 | akm | Sec 7.3.4.1 (1) |
| REACTIVITY STATEMENT | | | | | | |
| Reactivity - Water | non - reactive | | | 12/30/1992 | dds | Sec 7.3.2.1 (1) |
| Reactivity - Acid | non - reactive | | | 12/30/1992 | dds | Sec 7.3.2.1 (1) |
| Reactivity - Alkali | non - reactive | | | 12/30/1992 | dds | Sec 7.3.2.1 (1) |

Susan K. Scott
Project Manager





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ANALYTICAL REPORT

Richard Hubler
GMC AC ROCHESTER
4800 South Saginaw Street
Flint, MI 48501

01/04/1993

Job No.: 92.53140
Sample No.: 123582

MBO AE801425

GM-Linden Road Landfill IRM.

Sample Description: IRM-3 Box 410302 (ODA) 12/01

Physical Description: moist black solid

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|--------------|--------|---------------------|-------|------------------|--------------|-------------|
| PCBs | | | | | | |
| Aroclor-1016 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1221 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1232 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1242 | 5.3 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1248 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1254 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1260 | 4.8 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |

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01/04/1993

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Physical Description: moist black solid

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|----------------------|---------|---------------------|------|------------------|--------------|-------------|
| METALS - TCLP | | | | | | |
| Arsenic | <0.20 | 5.0 | mg/L | 12/18/1992 | jbb | 6010 (1) |
| Barium | 1.4 | 100.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Cadmium | 0.01 | 1.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Chromium | 0.02 | 5.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Copper | 0.11 | 100.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Lead | 0.42 | 5.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Mercury | <0.0005 | 0.2 | mg/L | 12/18/1992 | rjk | 7471 (1) |
| Nickel | 0.32 | -- | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Selenium | <0.50 | 1.0 | mg/L | 12/18/1992 | jbb | 6010 (1) |
| Silver | <0.02 | 5.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Zinc | 0.62 | 500.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |

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01/04/1993

Job No.: 92.53140
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Physical Description: moist black solid

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Detection Limit | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|---------------------------|--------|-----------------|------------------|------|---------------|-----------|-------------|
| VOLATILE COMPOUNDS - TCLP | | | | | | | |
| Benzene | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Carbon tetrachloride | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Chlorobenzene | ND | <0.20 | 100.0 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Chloroform | ND | <0.20 | 6.0 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| 1,4-Dichlorobenzene | ND | <0.20 | 7.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| 1,2-Dichloroethane | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| 1,1-Dichloroethene | ND | <0.20 | 0.7 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Methyl ethyl ketone | ND | <0.20 | 200.0 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Tetrachloroethene | ND | <0.20 | 0.7 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Trichloroethene | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Vinyl chloride | ND | <0.20 | 0.2 | mg/L | 12/15/1992 | pmc | 8260 (1) |

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01/04/1993

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GM-Linden Road Landfill IRM
Sample Description: IRM-3 Box 410302 (ODA) 12/01

Physical Description: moist black solid

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Detection Limit | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|--------------------------------------|--------|-----------------|------------------|------|---------------|-----------|-------------|
| BASE NEUTRAL COMPOUNDS - TCLP | | | | | | | |
| 2,4-Dinitrotoluene | ND | <0.10 | 0.13 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Hexachlorobenzene | ND | <0.10 | 0.13 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Hexachlorobutadiene | ND | <0.10 | 0.5 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Hexachloroethane | ND | <0.10 | 3.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Nitrobenzene | ND | <0.10 | 2.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Pyridine | ND | <0.10 | 5.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| ACID COMPOUNDS - TCLP | | | | | | | |
| 3-Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 2-Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 4-Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Pentachlorophenol | ND | <0.10 | 100.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 2,4,5-Trichlorophenol | ND | <0.10 | 400.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 2,4,6-Trichlorophenol | ND | <0.10 | 2.0 | mg/L | 12/30/1992 | tws | 8270 (1) |

ND indicates the analyte was not detected at the detection limit (DL) specified for this sample.

Susan K. Scott
Susan K. Scott
Project Manager





Client: GMC AC ROCHESTER
Sample Number: 123582
Sample Description: IRM-3 Box 410302 (ODA) 12/01

01/04/1993

TCLP WASTE CHARACTERIZATION
QC SUMMARY REPORT ATTACHMENT

| Parameter | Original Sample Concentration | Parameter Spike Concentration | Found Spike Sample Concentration | Expected Spike Sample Concentration | % Recovery |
|---|-------------------------------|-------------------------------|----------------------------------|-------------------------------------|------------|
| Arsenic, mg/L | <0.20 | 2.0 | 2.1 | 2.0 | 105 |
| Barium, mg/L | 1.4 | 10. | 12. | 10. | 120 |
| Cadmium, mg/L | 0.01 | 1.0 | 0.98 | 1.0 | 98 |
| Chromium, mg/L | 0.02 | 2.0 | 2.2 | 2.0 | 110 |
| Copper, mg/L | 0.11 | 10. | 11. | 10. | 110 |
| Lead, mg/L | 0.42 | 2.0 | 2.1 | 2.0 | 105 |
| Mercury, mg/L | <0.0005 | 0.10 | 0.099 | 0.10 | 99 |
| Nickel, mg/L | 0.32 | 2.0 | 2.0 | 2.0 | 100 |
| Selenium, mg/L | <0.50 | 1.0 | 1.0 | 1.0 | 100 |
| Silver, mg/L | <0.02 | 2.0 | 1.0 | 2.0 | 50 |
| Zinc, mg/L | 0.62 | 50. | 53. | 50. | 106 |
| Benzene-d ₆ , mg/L | <0.20 | 1.00 | 0.98 | 1.00 | 98 |
| Carbon Tetrachloride- ¹³ C ₁ , mg/L | <0.20 | 1.00 | 0.94 | 1.00 | 94 |
| Chlorobenzene-d ₁ , mg/L | <0.20 | 1.00 | 0.92 | 1.00 | 92 |
| Chloroform-d ₁ , mg/L | <0.20 | 1.00 | 0.92 | 1.00 | 92 |
| 1,4-Dichlorobenzene-d ₄ , mg/L | <0.20 | 1.00 | 0.86 | 1.00 | 86 |
| 1,2-Dichloroethane-d ₁ , mg/L | <0.20 | 1.00 | 0.70 | 1.00 | 70 |
| 1,1-Dichloroethene-d ₂ , mg/L | <0.20 | 1.00 | 0.60 | 1.00 | 60 |
| Methyl Ethyl Ketone-d ₅ , mg/L | <0.20 | 1.00 | 0.96 | 1.00 | 96 |
| Tetrachloroethene- ¹³ C ₁ , mg/L | <0.20 | 1.00 | 0.96 | 1.00 | 96 |
| Trichloroethene-d ₁ , mg/L | <0.20 | 1.00 | 0.94 | 1.00 | 94 |
| Vinyl Chloride-d ₃ , mg/L | <0.20 | 1.00 | 0.92 | 1.00 | 92 |
| 2,4-Dinitrotoluene-3,5,6-d ₃ , mg/L | <0.10 | 1.00 | 0.60 | 1.00 | 60 |
| Hexachlorobenzene- ¹³ C ₆ , mg/L | <0.10 | 1.00 | 0.78 | 1.00 | 78 |
| Hexachlorobutadiene- ¹³ C ₄ , mg/L | <0.10 | 1.00 | 0.47 | 1.00 | 47 |
| Hexachloroethane- ¹³ C ₁ , mg/L | <0.10 | 1.00 | 0.52 | 1.00 | 52 |
| Nitrobenzene- ¹³ C ₆ , mg/L | <0.10 | 1.00 | 0.63 | 1.00 | 63 |
| Pyridine-d ₅ , mg/L | <0.10 | 1.00 | 0.30 | 1.00 | 30 |
| 2-Cresol-d ₄ , mg/L | <0.10 | 1.00 | 0.39 | 1.00 | 39 |
| 4-Cresol-d ₄ , mg/L | <0.10 | 1.00 | 0.29 | 1.00 | 29 |
| Pentachlorophenol- ¹³ C ₆ , mg/L | <0.10 | 1.00 | 0.52 | 1.00 | 52 |
| 2,4,6-Trichlorophenol-3,5-d ₂ , mg/L | <0.10 | 1.00 | 0.46 | 1.00 | 46 |
| 2,4,5-Trichlorophenol-3,6-d ₂ , mg/L | <0.10 | 1.00 | 0.60 | 1.00 | 60 |

TCLP Extraction Data: Leaching Solution Used 1
Leaching Volume 3000 ml
Leaching Weight 150 g
Final pH 5.3

TCLP ZHE Data: Leaching Solution Used 1
Leaching Volume 500 ml
Leaching Weight 25 g





NATIONAL
ENVIRONMENTAL
TESTING, INC.

Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326
Tel: (313) 391-2050
Fax: (313) 391-9698

METHODOLOGY

- (1) EPA SW846, "Test Methods for Evaluating Solid Wastes".
- (2) ASTM, "American Society for Testing Materials".
- (3) EPA 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes".
- (4) "Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
- (5) 40 CFR, Part 136; reprinted in EPA 600/4-82-057, "Methods for Organic Analyses of Municipal and Industrial Wastewaters."
- (6) 40 CFR, Part 763;
- (7) "Standard Methods for the Examination of Water and Wastewater", 16th Edition, 1985.
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- (9) DNR, "Michigan Department of Natural Resources Laboratory Manual for Wastewater Treatment Plant Operators".
- (10) EPA Procedures Manual for Groundwater Monitoring at Solid Waste Disposal Facilities EPA/530/SW-611

UNITS OF CONVERSION

ppm (part per million) = mg/kg, mg/L, ug/g, ug/mL

ppb (part per billion) = ug/kg, ug/L

% = ppm divided by 10,000





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NET Midwest, Inc.
Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326
Tel: (313) 391-2050
Fax: (313) 391-9697

CHAIN OF CUSTODY

| | |
|---|---|
| Client GENERAL MOTORS | Project GM - Linden Road Landfill IRM Name |
| Send Report to: RICHARD HUBLER | |
| Address 4800 S. SAGINAW STREET FLINT, MI 48501 | Collected by: Jett. Deigan Roy F. Weston, Inc |
| Telephone # (313) 257-8346 | |

| Collection Information | | | | | | | | Parameters | | | | | | | | | | | | | | |
|------------------------|-------------------|---------|------|------------------|------------------|-------------|------------------|------------|---------------|------|---------|-------|---------|----------|--------------|----------|-----|--|--|--|--|--|
| Sample ID | Sampling Location | Date | Time | G R A B | C O M P | Sample Type | No. of Container | TCLP | MI -METALS | -VOL | -SOLIDS | PCB's | Density | TOTAL Pb | HEAVY METALS | % Solids | PFT | | | | | |
| IRM-1 | Box 410310 (1+20) | 12/1/92 | | X | | Solid Wash | 2-3202 | | | | | | | | | | | | | | | |
| IRM-2 | Box 410310 (3+2B) | 12/1/92 | | X | | | | | | | | | | | | | | | | | | |
| IRM-3 | Box 410302 (ODA) | 12/1/92 | | X | | | | | | | | | | | | | | | | | | |
| IRM-4 | Box 410303 (ODA) | 12/1/92 | | X | | | | | | | | | | | | | | | | | | |
| IRM-5 | Box 410316 (ODA) | 12/1/92 | | X | | | | | | | | | | | | | | | | | | |

*Must have full ID (see above) on REPORT
 Remarks: Note: Possible PCB's in Samples. Verity hits if TCLP
 HIT + PCB's

Relinquished by: *[Signature]* Date Time: 12/1/92 5:00 PM Received by: *R. Hubler* Date Time: 1-12-93 5:00 PM

Shipping Notes/Lab Comments: Received for NET Midwest by: *[Signature]*

Samples Field Filtered: Yes No
 Seals Intact Upon Receipt: Yes No N/A



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ANALYTICAL REPORT

Richard Hubler
GMC AC ROCHESTER
4800 South Saginaw Street
Flint, MI 48501

01/04/1993

Job No.: 92.53142
Sample No.: 123584

MBO AEB01425

GM-Linden Road Landfill IRM
Sample Description: IRM-4 Box 410303 (ODA) 12/01

Physical Description: black solids

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|-----------------------------|----------------|------------------|----------|---------------|-----------|-----------------|
| Cyanide, Total | <1.0 | | mg/kg | 12/29/1992 | dds | 9010 (1) |
| Density | 1.8 | | g/cc | 12/30/1992 | dds | E12 (2) |
| Solids, Total | 81. | | % | 12/18/1992 | akm | 160.3 (3) |
| Corrosivity (pH) | 5.0 | <2.0 or >=12.5 | units | 12/30/1992 | dds | 9040 (1) |
| Ignitability (Flash Point) | >200. | <140 | degree F | 12/28/1992 | sks | 1010 (1) |
| Paint Filter Test | <0.1 | Free Liquid | % | 12/30/1992 | dds | 9095 (1) |
| Reactive Sulfide | <2.0 | 500 | mg/kg | 12/29/1992 | akm | Sec 7.3.4.1 (1) |
| REACTIVITY STATEMENT | | | | | | |
| Reactivity - Water | non - reactive | | | 12/30/1992 | dds | Sec 7.3.2.1 (1) |
| Reactivity - Acid | non - reactive | | | 12/30/1992 | dds | Sec 7.3.2.1 (1) |
| Reactivity - Alkali | non - reactive | | | 12/30/1992 | dds | Sec 7.3.2.1 (1) |

Susan K. Scott
Susan K. Scott
Project Manager





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ANALYTICAL REPORT

Richard Hubler
GMC AC ROCHESTER
4800 South Saginaw Street
Flint, MI 48501

01/04/1993

Job No.: 92.53142
Sample No.: 123584

MBO AEB01425

GM-Linden Road Landfill IRM
Sample Description: IRM-4 Box 410303 (00A) 12/01

Physical Description: black solids

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|--------------|--------|---------------------|-------|------------------|--------------|-------------|
| PCBs | | | | | | |
| Aroclor-1016 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1221 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1232 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1242 | 4.7 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1248 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1254 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1260 | 3.1 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |

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Project Manager





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01/04/1993

Job No.: 92.53142
Sample No.: 123584

MBO AEB01425

GM-Linden Road Landfill IRM
Sample Description: IRM-4 Box 410303 (ODA) 12/01

Physical Description: black solids

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|----------------------|---------|---------------------|------|------------------|--------------|-------------|
| METALS - TCLP | | | | | | |
| Arsenic | <0.20 | 5.0 | mg/L | 12/18/1992 | jbb | 6010 (1) |
| Barium | 1.4 | 100.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Cadmium | 0.01 | 1.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Chromium | <0.02 | 5.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Copper | 0.03 | 100.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Lead | 1.5 | 5.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Mercury | <0.0005 | 0.2 | mg/L | 12/18/1992 | rjk | 7471 (1) |
| Nickel | 0.28 | -- | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Selenium | <0.50 | 1.0 | mg/L | 12/18/1992 | jbb | 6010 (1) |
| Silver | <0.02 | 5.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Zinc | 0.67 | 500.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |

Susan K. Scott
Susan K. Scott
Project Manager





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ANALYTICAL REPORT

Richard Hubler
GMC AC ROCHESTER
4800 South Saginaw Street
Flint, MI 48501

01/04/1993

Job No.: 92.53142
Sample No.: 123584

MBO AEB01425 PR# Shipper#

GM-Linden Road Landfill IRM
Sample Description: IRM-4 Box 410303 (00A) 12/01

Physical Description: black solids

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Detection Limit | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|---------------------------|--------|-----------------|------------------|------|---------------|-----------|-------------|
| VOLATILE COMPOUNDS - TCLP | | | | | | | |
| Benzene | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Carbon tetrachloride | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Chlorobenzene | ND | <0.20 | 100.0 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Chloroform | ND | <0.20 | 6.0 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| 1,4-Dichlorobenzene | ND | <0.20 | 7.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| 1,2-Dichloroethane | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| 1,1-Dichloroethene | ND | <0.20 | 0.7 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Methyl ethyl ketone | ND | <0.20 | 200.0 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Tetrachloroethene | ND | <0.20 | 0.7 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Trichloroethene | 0.37 | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Vinyl chloride | ND | <0.20 | 0.2 | mg/L | 12/15/1992 | pmc | 8260 (1) |

Susan K. Scott
Susan K. Scott
Project Manager





ANALYTICAL REPORT

Richard Hubler
GMC AC ROCHESTER
4800 South Saginaw Street
Flint, MI 48501

01/04/1993

Job No.: 92.53142
Sample No.: 123584

MBO AEB01425

GM-Linden Road Landfill IRM
Sample Description: IRM-4 Box 410303 (ODA) 12/01

Physical Description: black solids

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Detection Limit | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|--------------------------------------|--------|-----------------|------------------|------|---------------|-----------|-------------|
| BASE NEUTRAL COMPOUNDS - TCLP | | | | | | | |
| 2,4-Dinitrotoluene | ND | <0.10 | 0.13 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Hexachlorobenzene | ND | <0.10 | 0.13 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Hexachlorobutadiene | ND | <0.10 | 0.5 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Hexachloroethane | ND | <0.10 | 3.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Nitrobenzene | ND | <0.10 | 2.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Pyridine | ND | <0.10 | 5.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| ACID COMPOUNDS - TCLP | | | | | | | |
| 3-Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 2-Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 4-Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Pentachlorophenol | ND | <0.10 | 100.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 2,4,5-Trichlorophenol | ND | <0.10 | 400.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 2,4,6-Trichlorophenol | ND | <0.10 | 2.0 | mg/L | 12/30/1992 | tws | 8270 (1) |

ND indicates the analyte was not detected at the detection limit (DL) specified for this sample.

Susan K. Scott
Susan K. Scott
Project Manager





Client: GMC AC ROCHESTER
Sample Number: 123584
Sample Description: IRM-4 Box 410303 (ODA) 12/01

01/04/1993

TCLP WASTE CHARACTERIZATION
QC SUMMARY REPORT ATTACHMENT

| Parameter | Original Sample Concentration | Parameter Spike Concentration | Found Spike Sample Concentration | Expected Spike Sample Concentration | % Recovery |
|---|-------------------------------|-------------------------------|----------------------------------|-------------------------------------|------------|
| Arsenic, mg/L | <0.20 | 2.0 | 1.9 | 2.0 | 95 |
| Barium, mg/L | 1.4 | 10. | 11. | 10. | 110 |
| Cadmium, mg/L | 0.01 | 1.0 | 0.91 | 1.0 | 91 |
| Chromium, mg/L | <0.02 | 2.0 | 2.1 | 2.0 | 105 |
| Copper, mg/L | 0.03 | 10. | 10. | 10. | 100 |
| Lead, mg/L | 1.5 | 2.0 | 1.9 | 2.0 | 95 |
| Mercury, mg/L | <0.0005 | 0.10 | 0.091 | 0.10 | 91 |
| Nickel, mg/L | 0.28 | 2.0 | 1.7 | 2.0 | 85 |
| Selenium, mg/L | <0.50 | 1.0 | 0.90 | 1.0 | 90 |
| Silver, mg/L | <0.02 | 2.0 | 2.4 | 2.0 | 120 |
| Zinc, mg/L | 0.67 | 50. | 50. | 50. | 100 |
| Benzene-d ₆ , mg/L | <0.20 | 1.00 | 1.00 | 1.00 | 100 |
| Carbon Tetrachloride- ¹³ C ₁ , mg/L | <0.20 | 1.00 | 0.98 | 1.00 | 98 |
| Chlorobenzene-d ₁ , mg/L | <0.20 | 1.00 | 0.90 | 1.00 | 90 |
| Chloroform-d ₁ , mg/L | <0.20 | 1.00 | 0.94 | 1.00 | 94 |
| 1,4-Dichlorobenzene-d ₄ , mg/L | <0.20 | 1.00 | 0.82 | 1.00 | 82 |
| 1,2-Dichloroethane-d ₁ , mg/L | <0.20 | 1.00 | 0.72 | 1.00 | 72 |
| 1,1-Dichloroethene-d ₂ , mg/L | <0.20 | 1.00 | 0.62 | 1.00 | 62 |
| Methyl Ethyl Ketone-d ₅ , mg/L | <0.20 | 1.00 | 0.90 | 1.00 | 90 |
| Tetrachloroethene- ¹³ C ₁ , mg/L | <0.20 | 1.00 | 0.96 | 1.00 | 96 |
| Trichloroethene-d ₁ , mg/L | 0.37 | 1.00 | 0.96 | 1.00 | 96 |
| Vinyl Chloride-d ₃ , mg/L | <0.20 | 1.00 | 0.98 | 1.00 | 98 |
| 2,4-Dinitrotoluene-3,5,6-d ₃ , mg/L | <0.10 | 1.00 | 0.58 | 1.00 | 58 |
| Hexachlorobenzene- ¹³ C ₆ , mg/L | <0.10 | 1.00 | 0.74 | 1.00 | 74 |
| Hexachlorobutadiene- ¹³ C ₄ , mg/L | <0.10 | 1.00 | 0.53 | 1.00 | 53 |
| Hexachloroethane- ¹³ C ₁ , mg/L | <0.10 | 1.00 | 0.57 | 1.00 | 57 |
| Nitrobenzene- ¹³ C ₆ , mg/L | <0.10 | 1.00 | 0.66 | 1.00 | 66 |
| Pyridine-d ₅ , mg/L | <0.10 | 1.00 | 0.38 | 1.00 | 38 |
| 2-Cresol-d ₄ , mg/L | <0.10 | 1.00 | 0.60 | 1.00 | 60 |
| 4-Cresol-d ₄ , mg/L | <0.10 | 1.00 | 0.57 | 1.00 | 57 |
| Pentachlorophenol- ¹³ C ₆ , mg/L | <0.10 | 1.00 | 0.84 | 1.00 | 84 |
| 2,4,6-Trichlorophenol-3,5-d ₂ , mg/L | <0.10 | 1.00 | 0.55 | 1.00 | 55 |
| 2,4,5-Trichlorophenol-3,6-d ₂ , mg/L | <0.10 | 1.00 | 0.64 | 1.00 | 64 |

TCLP Extraction Data: Leaching Solution Used 1
Leaching Volume 3000 ml
Leaching Weight 150 g
Final pH 5.4

TCLP ZHE Data: Leaching Solution Used 1
Leaching Volume 500 ml
Leaching Weight 25 g





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METHODOLOGY

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- (7) "Standard Methods for the Examination of Water and Wastewater", 16th Edition, 1985.
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UNITS OF CONVERSION

ppm (part per million) = mg/kg, mg/L, ug/g, ug/mL

ppb (part per billion) = ug/kg, ug/L

% = ppm divided by 10,000





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CHAIN OF CUSTODY

| | |
|---|---|
| Client GENERAL MOTORS | Project Name GM - Linden Road Landfill IRM |
| Send Report to: RICHARD HUBLER | |
| Address 4800 S. SAGINAW STREET FLINT, MI 48501 | Collected by: Jett. Deigan Roy F. Weston, Inc |
| Telephone # (313) 257-8346 | |

| Collection Information | | | | | | | | Parameters | | | | | | | | | | | | | |
|------------------------|-------------------|---------|------|-----|------|-------------|------------------|------------|--------------|------------|------------|-------|---------|----------|--------------|----------|-----|--|--|--|--|
| Sample ID | Sampling Location | Date | Time | GRA | COMB | Sample Type | No. of Container | MI | | | Parameters | | | | | | | | | | |
| | | | | | | | | TCLP | HEAVY METALS | Vol Solids | ACI | PCB's | Density | TOTAL Cd | HEAVY METALS | % Solids | PFT | | | | |
| IRM-1 | Box 410310 (1420) | 12/1/92 | | X | | Solid waste | 2-32oz | | | | | | | | | | | | | | |
| IRM-2 | Box 410380 (32B) | 12/1/92 | | X | | | | | | | | | | | | | | | | | |
| IRM-3 | Box 410302 (ODA) | 12/1/92 | | X | | | | | | | | | | | | | | | | | |
| IRM-4 | Box 410303 (ODA) | 12/1/92 | | X | | | | | | | | | | | | | | | | | |
| IRM-5 | Box 410316 (ODA) | 12/1/92 | | X | | | | | | | | | | | | | | | | | |

Remarks: *Must have full ID (see above) on REPORT
Note: Possible PCB's in Samples. Verity hits if TCLP
ITIT + PCB's

Relinquished by: *Richard Hubler* Date Time: 12/1/92 5:00 PM
Received by: *R. Hubler* Date Time: 1-12-92 5:00 PM

| | | | | | |
|-----------------------|---------|---------|------------------|---------|---------|
| <i>Richard Hubler</i> | 12/1/92 | 5:00 PM | <i>R. Hubler</i> | 1-12-92 | 5:00 PM |
|-----------------------|---------|---------|------------------|---------|---------|

Shipping Notes/Lab Comments: Received for NET Midwest by: *R. Hubler* 12/1/92

Samples Field Filtered: Yes No
Seals Intact Upon Receipt: Yes No N/A



**NATIONAL
ENVIRONMENTAL
TESTING, INC.**

Auburn Hills Division
1700 Harmon Road
Auburn Hills, MI 48326
Tel: (313) 391-2050
Fax: (313) 391-9698

ANALYTICAL REPORT

Richard Hubler
GMC AC ROCHESTER
4800 South Saginaw Street
Flint, MI 48501

01/04/1993

Job No.: 92.53148
Sample No.: 123596

MBO AEB01425

GM-Linden Road Landfill IRM
Sample Description: IRM-5 Box 410316 (ODA) 12/01

Physical Description: moist black solid

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|-----------------------------|----------------|------------------|----------|---------------|-----------|-----------------|
| Cyanide, Total | <1.0 | | mg/kg | 12/29/1992 | dds | 9010 (1) |
| Density | 1.6 | | g/cc | 12/30/1992 | dds | E12 (2) |
| Solids, Total | 72. | | % | 12/22/1992 | dlc | 160.3 (3) |
| Corrosivity (pH) | 5.5 | <2.0 or >=12.5 | units | 12/30/1992 | dds | 9040 (1) |
| Ignitability (Flash Point) | >200. | <140 | degree F | 12/28/1992 | sks | 1010 (1) |
| Paint Filter Test | <0.1 | Free Liquid | % | 12/30/1992 | dds | 9095 (1) |
| Reactive Sulfide | 8.6 | 500 | mg/kg | 12/29/1992 | akm | Sec 7.3.4.1 (1) |
| REACTIVITY STATEMENT | | | | | | |
| Reactivity - Water | non - reactive | | | 12/30/1992 | dds | Sec 7.3.2.1 (1) |
| Reactivity - Acid | non - reactive | | | 12/30/1992 | dds | Sec 7.3.2.1 (1) |
| Reactivity - Alkali | non - reactive | | | 12/30/1992 | dds | Sec 7.3.2.1 (1) |

Susan K. Scott

Susan K. Scott
Project Manager





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Physical Description: moist black solid

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|--------------|--------|---------------------|-------|------------------|--------------|-------------|
| PCBs | | | | | | |
| Aroclor-1016 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1221 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1232 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1242 | 2.2 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1248 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1254 | <1.0 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |
| Aroclor-1260 | 1.7 | | mg/kg | 12/29/1992 | mmk | 8080 (1) |

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Sample Description: IRM-5 Box 410316 (ODA) 12/01

Physical Description: moist black solid

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|---------------|---------|---------------------|------|------------------|--------------|-------------|
| METALS - TCLP | | | | | | |
| Arsenic | <0.20 | 5.0 | mg/L | 12/18/1992 | jbb | 6010 (1) |
| Barium | 0.62 | 100.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Cadmium | 0.01 | 1.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Chromium | <0.02 | 5.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Copper | 0.02 | 100.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Lead | 0.12 | 5.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Mercury | <0.0005 | 0.2 | mg/L | 12/18/1992 | rjk | 7471 (1) |
| Nickel | 0.10 | -- | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Selenium | <0.50 | 1.0 | mg/L | 12/18/1992 | jbb | 6010 (1) |
| Silver | <0.02 | 5.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |
| Zinc | 0.24 | 500.0 | mg/L | 12/17/1992 | jbb | 6010 (1) |

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01/04/1993

Job No.: 92.53148
Sample No.: 123596

MBO AEB01425

GM-Linden Road Landfill IRM
Sample Description: IRM-5 Box 410316 (ODA) 12/01

Physical Description: moist black solid

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Detection Limit | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|----------------------------------|--------|-----------------|------------------|------|---------------|-----------|-------------|
| VOLATILE COMPOUNDS - TCLP | | | | | | | |
| Benzene | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Carbon tetrachloride | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Chlorobenzene | ND | <0.20 | 100.0 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Chloroform | ND | <0.20 | 6.0 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| 1,4-Dichlorobenzene | ND | <0.20 | 7.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| 1,2-Dichloroethane | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| 1,1-Dichloroethene | ND | <0.20 | 0.7 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Methyl ethyl ketone | ND | <0.20 | 200.0 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Tetrachloroethene | ND | <0.20 | 0.7 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Trichloroethene | ND | <0.20 | 0.5 | mg/L | 12/15/1992 | pmc | 8260 (1) |
| Vinyl chloride | ND | <0.20 | 0.2 | mg/L | 12/15/1992 | pmc | 8260 (1) |

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01/04/1993

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Sample No.: 123596

MBO AEB01425

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Sample Description: IRM-5 Box 410316 (ODA) 12/01

Physical Description: moist black solid

Date Taken: 12/01/1992

Date Received: 12/09/1992

| Parameter | Result | Detection Limit | Regulatory Limit | Unit | Date Analyzed | Lab Tech. | Methodology |
|--------------------------------------|--------|-----------------|------------------|------|---------------|-----------|-------------|
| BASE NEUTRAL COMPOUNDS - TCLP | | | | | | | |
| 2,4-Dinitrotoluene | ND | <0.10 | 0.13 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Hexachlorobenzene | ND | <0.10 | 0.13 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Hexachlorobutadiene | ND | <0.10 | 0.5 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Hexachloroethane | ND | <0.10 | 3.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Nitrobenzene | ND | <0.10 | 2.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Pyridine | ND | <0.10 | 5.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| ACID COMPOUNDS - TCLP | | | | | | | |
| 3-Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 2-Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 4-Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Cresol | ND | <0.10 | 200.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| Pentachlorophenol | ND | <0.10 | 100.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 2,4,5-Trichlorophenol | ND | <0.10 | 400.0 | mg/L | 12/30/1992 | tws | 8270 (1) |
| 2,4,6-Trichlorophenol | ND | <0.10 | 2.0 | mg/L | 12/30/1992 | tws | 8270 (1) |

ND indicates the analyte was not detected at the detection limit (DL) specified for this sample.

Susan K. Scott
Susan K. Scott
Project Manager





Client: GMC AC ROCHESTER
Sample Number: 123596
Sample Description: IRM-5 Box 410316 (ODA) 12/01

01/04/1993

TCLP WASTE CHARACTERIZATION
QC SUMMARY REPORT ATTACHMENT

| Parameter | Original Sample Concentration | Parameter Spike Concentration | Found Spike Sample Concentration | Expected Spike Sample Concentration | % Recovery |
|---|-------------------------------|-------------------------------|----------------------------------|-------------------------------------|------------|
| Arsenic, mg/L | <0.20 | 2.0 | 2.0 | 2.0 | 100 |
| Barium, mg/L | 0.62 | 10. | 10. | 10. | 100 |
| Cadmium, mg/L | 0.01 | 1.0 | 0.93 | 1.0 | 93 |
| Chromium, mg/L | <0.02 | 2.0 | 2.1 | 2.0 | 105 |
| Copper, mg/L | 0.02 | 10. | 10. | 10. | 100 |
| Lead, mg/L | 0.12 | 2.0 | 1.9 | 2.0 | 95 |
| Mercury, mg/L | <0.0005 | 0.10 | 0.094 | 0.10 | 94 |
| Nickel, mg/L | 0.10 | 2.0 | 1.8 | 2.0 | 90 |
| Selenium, mg/L | <0.50 | 1.0 | 0.92 | 1.0 | 92 |
| Silver, mg/L | <0.02 | 2.0 | 2.5 | 2.0 | 125 |
| Zinc, mg/L | 0.24 | 50. | 51. | 50. | 102 |
| Benzene-d ₆ , mg/L | <0.20 | 1.00 | 1.02 | 1.00 | 102 |
| Carbon Tetrachloride- ¹³ C ₁ , mg/L | <0.20 | 1.00 | 0.98 | 1.00 | 98 |
| Chlorobenzene-d ₁ , mg/L | <0.20 | 1.00 | 0.92 | 1.00 | 92 |
| Chloroform-d ₁ , mg/L | <0.20 | 1.00 | 0.94 | 1.00 | 94 |
| 1,4-Dichlorobenzene-d ₄ , mg/L | <0.20 | 1.00 | 0.84 | 1.00 | 84 |
| 1,2-Dichloroethane-d ₁ , mg/L | <0.20 | 1.00 | 0.72 | 1.00 | 72 |
| 1,1-Dichloroethene-d ₂ , mg/L | <0.20 | 1.00 | 0.60 | 1.00 | 60 |
| Methyl Ethyl Ketone-d ₅ , mg/L | <0.20 | 1.00 | 1.06 | 1.00 | 106 |
| Tetrachloroethene- ¹³ C ₁ , mg/L | <0.20 | 1.00 | 1.02 | 1.00 | 102 |
| Trichloroethene-d ₁ , mg/L | <0.20 | 1.00 | 1.00 | 1.00 | 100 |
| Vinyl Chloride-d ₃ , mg/L | <0.20 | 1.00 | 0.88 | 1.00 | 88 |
| 2,4-Dinitrotoluene-3,5,6-d ₃ , mg/L | <0.10 | 1.00 | 0.59 | 1.00 | 59 |
| Hexachlorobenzene- ¹³ C ₆ , mg/L | <0.10 | 1.00 | 0.79 | 1.00 | 79 |
| Hexachlorobutadiene- ¹³ C ₄ , mg/L | <0.10 | 1.00 | 0.49 | 1.00 | 49 |
| Hexachloroethane- ¹³ C ₁ , mg/L | <0.10 | 1.00 | 0.52 | 1.00 | 52 |
| Nitrobenzene- ¹³ C ₆ , mg/L | <0.10 | 1.00 | 0.61 | 1.00 | 61 |
| Pyridine-d ₅ , mg/L | <0.10 | 1.00 | 0.20 | 1.00 | 20 |
| 2-Cresol-d ₄ , mg/L | <0.10 | 1.00 | 0.37 | 1.00 | 37 |
| 4-Cresol-d ₄ , mg/L | <0.10 | 1.00 | 0.29 | 1.00 | 29 |
| Pentachlorophenol- ¹³ C ₆ , mg/L | <0.10 | 1.00 | 0.62 | 1.00 | 62 |
| 2,4,6-Trichlorophenol-3,5-d ₂ , mg/L | <0.10 | 1.00 | 0.29 | 1.00 | 29 |
| 2,4,5-Trichlorophenol-3,6-d ₂ , mg/L | <0.10 | 1.00 | 0.38 | 1.00 | 38 |

TCLP Extraction Data: Leaching Solution Used 1
Leaching Volume 3000 ml
Leaching Weight 150 g
Final pH 5.7

TCLP ZHE Data: Leaching Solution Used 1
Leaching Volume 500 ml
Leaching Weight 25 g





METHODOLOGY

- (1) EPA SW846, "Test Methods for Evaluating Solid Wastes".
- (2) ASTM, "American Society for Testing Materials".
- (3) EPA 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes".
- (4) "Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
- (5) 40 CFR, Part 136; reprinted in EPA 600/4-82-057, "Methods for Organic Analyses of Municipal and Industrial Wastewaters."
- (6) 40 CFR, Part 763;
- (7) "Standard Methods for the Examination of Water and Wastewater", 16th Edition, 1985.
- (8) Methods of Air Sampling and Analysis, 2nd. Edition.
- (9) DNR, "Michigan Department of Natural Resources Laboratory Manual for Wastewater Treatment Plant Operators".
- (10) EPA Procedures Manual for Groundwater Monitoring at Solid Waste Disposal Facilities EPA/530/SW-611

UNITS OF CONVERSION

ppm (part per million) = mg/kg, mg/L, ug/g, ug/mL

ppb (part per billion) = ug/kg, ug/L

% = ppm divided by 10,000



ATTACHMENT B
WASTE PROFILE SHEETS

Contract number 1010
USPCI Site ID # 1010
MID 985651850

I. Customer Information

Customer name: AC Rochester - Linden Rd
Address: LINDEN Rd - (no address) between CALKINS & CORK ST. FLINT, MI 4800 S Saginaw St. Flint MI 48501
Phone contact: Same
FAX contact: Same
USPCI Site ID # 1010
MID 985651850

II. Waste Generation Information

Waste name: Oil disposal area waste
Treatment process producing waste: Remedial of an industrial waste landfill (Linden Rd)
Estimated quantity of waste: 40-60 yd³
Is the waste generated from a... RCRA corrective action or a CERCLA site? NOT Applicable

III. Waste Constituents, Characteristics and Properties

Physical state: Solid Contains free liquids? Yes No Liquid
pH range: ≤ 2 2-5 5-8 8-12 > 12.5
Physical properties: explosive strong odor infectious PCB fuming acids reactives asbestos oxidizers radioactives absorbent Bulk density 1.5 Specific gravity Normality Color Black
Waste Composition: Grease 50-85, Fluhash 15-50, Diesel 10-20
Total must equal at least 100% 100-

IV. EPA Waste Codes and Land Disposal Restriction Standards

Applicable EPA listed waste codes (F, K, U or P): NOT Applicable
Land Disposal Restriction standards: does not meet any applicable standards treated to meet all applicable standards meets all standards without treatment
Non Regulated Waste: Non Hazardous under RCRA or State Regulations Conditionally Exempt Small Quantity Generator 100-1000 kg/mo generator

V. D-Code Characteristic Waste

| D-Code | Description | Actual Range | D-Code | Description | Actual Range |
|-------------------------------|----------------------------|----------------|-------------------------------|------------------------------|--------------|
| <input type="checkbox"/> D001 | Inertible (if p. < 140 °F) | NOT Applicable | <input type="checkbox"/> D012 | Endrin | 0.02 mg/l |
| <input type="checkbox"/> D002 | Corrosive (pH 2 or > 12.5) | | <input type="checkbox"/> D013 | Lindane | > 0.4 mg/l |
| <input type="checkbox"/> D003 | Reactive | | <input type="checkbox"/> D014 | Methoxychlor | > 10.0 mg/l |
| <input type="checkbox"/> D004 | Arsenic | | <input type="checkbox"/> D015 | Toxaphene | > 0.5 mg/l |
| <input type="checkbox"/> D005 | Barium | | <input type="checkbox"/> D016 | 2,4-D | > 10.0 mg/l |
| <input type="checkbox"/> D006 | Cadmium | | <input type="checkbox"/> D017 | 2,4,5-TP Silver | > 1.0 mg/l |
| <input type="checkbox"/> D007 | Chromium | | <input type="checkbox"/> D018 | Benzene | > 0.5 mg/l |
| <input type="checkbox"/> D008 | Lead | | <input type="checkbox"/> D019 | Carbon tetrachloride | > 0.5 mg/l |
| <input type="checkbox"/> D009 | Mercury | | <input type="checkbox"/> D020 | Chlordane | 0.03 mg/l |
| <input type="checkbox"/> D010 | Selenium | | <input type="checkbox"/> D021 | Chlorobenzene | > 100.0 mg/l |
| <input type="checkbox"/> D011 | Silver | | <input type="checkbox"/> D022 | Chloroform | > 6.0 mg/l |
| | | | <input type="checkbox"/> D023 | o-Cresol | > 200.0 mg/l |
| | | | <input type="checkbox"/> D024 | m-Cresol | > 200.0 mg/l |
| | | | <input type="checkbox"/> D025 | p-Cresol | > 200.0 mg/l |
| | | | <input type="checkbox"/> D026 | Cresol | > 200.0 mg/l |
| | | | <input type="checkbox"/> D027 | 1,4-Dichlorobenzene | > 7.5 mg/l |
| | | | <input type="checkbox"/> D028 | 1,2-Dichloroethane | > 0.5 mg/l |
| | | | <input type="checkbox"/> D029 | 1,1-Dichloroethylene | > 0.7 mg/l |
| | | | <input type="checkbox"/> D030 | 2,4-Dinitrotoluene | > 0.13 mg/l |
| | | | <input type="checkbox"/> D031 | Heptachlor (and its epoxide) | > 0.008 mg/l |
| | | | <input type="checkbox"/> D032 | Hexachlorobenzene | > 0.13 mg/l |
| | | | <input type="checkbox"/> D033 | Hexachloro-1,3-butadiene | > 0.5 mg/l |
| | | | <input type="checkbox"/> D034 | Hexachloroethane | > 3.0 mg/l |
| | | | <input type="checkbox"/> D035 | Methyl ethyl ketone | > 200.0 mg/l |
| | | | <input type="checkbox"/> D036 | Nitrobenzene | > 2.0 mg/l |
| | | | <input type="checkbox"/> D037 | Pentachlorophenol | > 100.0 mg/l |
| | | | <input type="checkbox"/> D038 | Pyridine | > 5.0 mg/l |
| | | | <input type="checkbox"/> D039 | Tetrachloroethylene | > 0.7 mg/l |
| | | | <input type="checkbox"/> D040 | Trichloroethylene | > 0.5 mg/l |
| | | | <input type="checkbox"/> D041 | 2,4,5-Trichlorophenol | > 100.0 mg/l |
| | | | <input type="checkbox"/> D042 | 2,4,6-Trichlorophenol | > 2.0 mg/l |
| | | | <input type="checkbox"/> D043 | Vinyl chloride | > 0.2 mg/l |

VI. Shipping Information

Proper DOT Shipping Name (per 49 CFR 172.101): NON-DOT REGULATED
Reportable quantity: NOT Applicable
DOT hazard class: NOT Applicable
Method of shipment: bulk solids bulk liquids 55-gallon drum lab pack other (specify)

I certify that the information presented on this form is accurate, the Waste Stream has been correctly characterized according to 40 CFR 262.11, a Representative Sample (or lab pack inventory) of this Waste Stream has been provided to USPCI, and that I am authorized by the above listed company or agency to make this certification.

Signature: Richard Hubler
Printed name: RICHARD HUBLER
Date: 1-14-93

Please on reference
410303
410316
410302
analyzed w/ original profile

Waste Profile Sheet

P.O. number _____ Contract number 4670 USPCI Representative Shelley Childs 150

2 Samples
410380
410310

I. Customer Information

Customer name: RC Rochester - Linder Rd
 Location site: Linder Rd (no address) Flint, MI Betw/ Calhoun & Oak St
 Mailing address: 4800 S. Saginaw St Flint, MI 48501
 Bill to: same

Technical contact: Dick Hubler
 Phone: 313 257 8346 Fax: 313 257 6900
 General contact: Dick Hubler
 Phone: same Fax: same
 Broker contact: _____
 Phone: _____ Fax: _____
 EPA ID number: MED 985651850

II. Waste Generation Information

Waste name: Remedial soils and debris - Linder Rd landfill
 Describe process producing waste (attach additional sheet if necessary): Remediation of Industrial waste landfill
 Estimated quantity of waste: 10-30 yd³
 Is the waste generated from a... RCRA corrective action or a CERCLA site? not applicable

III. Waste Constituents, Characteristics and Properties

Physical state: Solid Contains free liquids? yes no Liquid

pH range: ≤ 2 2-5 5-8 8-12 ≥ 12.5

Waste Composition: Soils, debris (foil, metal drums), plastic chips, personal protective equipment (gloves, suits, boots etc.)

Range in %: 10-50, 10-50, 10-30

Physical properties: explosive strong odor infectious PCB fluming acids reactive asbestos oxidizers radioactives absorbents Bulk density Specific gravity Normality Color DE BROWN

Complete for Thermal Destruction: Heat Value (BTU/lb) _____ to _____ Vapor Pressure (mmHG) _____ @ STP Viscosity _____ @ _____ °F Total Chlorine _____ to _____ % Total Fluoride _____ to _____ % Total Iodine _____ to _____ % Total Sulfur _____ to _____ %

Other: W/ VARIATION OF COLORED DIRT PARTICLES

IV. EPA Waste Codes and Land Disposal Standards

Applicable EPA listed waste codes (F,K,U or P): NOT APPLICABLE

Land Disposal Restriction standards: (check one)
 does not meet any applicable standards thallium > 130 mg/l meets standards for _____ and exceeds standards for _____
 treated to meet all applicable standards nickel > 134 mg/l meets standards for _____
 meets all standards without treatment HOC > 1000 mg/l unknown by customer No treatment standards apply

Regulated Waste: Non Hazardous under RCRA or State Regulations Conditionally Exempt Small Quantity Generator 100-1000 kg/mo generator

V. D-Code Characteristic Waste

| Code | Description | Actual Range | Code | Description | Actual Range |
|-------------------------------|------------------------------|--------------|-------------------------------|------------------------------|------------------|
| <input type="checkbox"/> D001 | Ignitable (i.p. <140° F) | NOT APPLIC | <input type="checkbox"/> D012 | Endrin | ≥0.02 mg/l NOT |
| <input type="checkbox"/> D002 | Corrosive (pH ≤ 2 or ≥ 12.5) | | <input type="checkbox"/> D013 | Lindane | ≥0.4 mg/l APPLIC |
| <input type="checkbox"/> D003 | Reactive | | <input type="checkbox"/> D014 | Methoxychlor | ≥10.0 mg/l |
| <input type="checkbox"/> D004 | Arsenic ≥5.0 mg/l | | <input type="checkbox"/> D015 | Toxaphene | ≥0.5 mg/l |
| <input type="checkbox"/> D005 | Barium ≥100.0 mg/l | | <input type="checkbox"/> D016 | 2,4-D | ≥10.0 mg/l |
| <input type="checkbox"/> D006 | Cadmium ≥1.0 mg/l | | <input type="checkbox"/> D017 | 2,4,5-TP Silvex | ≥1.0 mg/l |
| <input type="checkbox"/> D007 | Chromium ≥5.0 mg/l | | <input type="checkbox"/> D018 | Benzene | ≥0.5 mg/l |
| <input type="checkbox"/> D008 | Lead ≥5.0 mg/l | | <input type="checkbox"/> D019 | Carbon tetrachloride | ≥0.5 mg/l |
| <input type="checkbox"/> D009 | Mercury ≥0.2 mg/l | | <input type="checkbox"/> D020 | Chlordane | ≥0.03 mg/l |
| <input type="checkbox"/> D010 | Selenium ≥1.0 mg/l | | <input type="checkbox"/> D021 | Chlorobenzene | ≥100.0 mg/l |
| <input type="checkbox"/> D011 | Silver ≥5.0 mg/l | | <input type="checkbox"/> D022 | Chloroform | ≥6.0 mg/l |
| | | | <input type="checkbox"/> D023 | o-Cresol | ≥200.0 mg/l |
| | | | <input type="checkbox"/> D024 | m-Cresol | ≥200.0 mg/l |
| | | | <input type="checkbox"/> D025 | p-Cresol | ≥200.0 mg/l |
| | | | <input type="checkbox"/> D026 | Cresol | ≥200.0 mg/l |
| | | | <input type="checkbox"/> D027 | 1,4-Dichlorobenzene | ≥7.5 mg/l |
| | | | <input type="checkbox"/> D028 | 1,2-Dichloroethane | ≥0.5 mg/l |
| | | | <input type="checkbox"/> D029 | 1,1-Dichloroethylene | ≥0.7 mg/l |
| | | | <input type="checkbox"/> D030 | 2,4-Dinitrotoluene | ≥0.13 mg/l |
| | | | <input type="checkbox"/> D031 | Heptachlor (and its epoxide) | ≥0.008 mg/l |
| | | | <input type="checkbox"/> D032 | Hexachlorobenzene | ≥0.13 mg/l |
| | | | <input type="checkbox"/> D033 | Hexachloro-1,3-butadiene | ≥0.5 mg/l |
| | | | <input type="checkbox"/> D034 | Hexachloroethane | ≥3.0 mg/l |
| | | | <input type="checkbox"/> D035 | Methyl ethyl ketone | ≥200.0 mg/l |
| | | | <input type="checkbox"/> D036 | Nitrobenzene | ≥2.0 mg/l |
| | | | <input type="checkbox"/> D037 | Pentachlorophenol | ≥100.0 mg/l |
| | | | <input type="checkbox"/> D038 | Pyridine | ≥5.0 mg/l |
| | | | <input type="checkbox"/> D039 | Tetrachloroethylene | ≥0.7 mg/l |
| | | | <input type="checkbox"/> D040 | Trichloroethylene | ≥0.5 mg/l |
| | | | <input type="checkbox"/> D041 | 2,4,5-Trichlorophenol | ≥400.0 mg/l |
| | | | <input type="checkbox"/> D042 | 2,4,6-Trichlorophenol | ≥2.0 mg/l |
| | | | <input type="checkbox"/> D043 | Vinyl chloride | ≥0.2 mg/l |

VI. Shipping Information

Proper DOT Shipping Name (per 49 CFR 172.101): NOT-DOT Regulated

Reportable quantity: N/A

DOT hazard class: N/A UN/NA number: N/A

Method of shipment: bulk solids bulk liquids 55-gallon drum lab pack other (specify) _____

Special handling or safety information (attach additional sheet if necessary): _____

I certify that the information presented on this form is accurate, the Waste Stream has been correctly characterized according to 40 CFR 262.11, a Representative Sample (or lab pack inventory) of this Waste Stream has been provided to USPCI, and that I am authorized by the above listed company or agency to make this certification.

Signature: Richard Hubler Printed name: RICHARD HUBLER Date: 1-14-93

- a. Contaminated Solids < 4000 ppm PCB
- b. Contaminated Liquids < 4000 ppm PCB
- c. Grease < 1000 ppm PCB
- d. Flashed Oil < 40 CFR 1.80(b)(1)(i)
- e. Drained PCB Transformers (solid core) < 400 ppm b. > 400 ppm
- f. Contaminated Soil, Sediment and/or Sludge
- g. Non-PCB or Small PCB Capacitors (<1000 pF)
- h. Drained PCB Hydraulic Machines
- i. Drained Empty PCB Articles or Containers
- j. Liquids < 400 ppm
- k. Dredged Material and/or Sewage Sludge
- m. Large Capacitors
- n. Mineral Oil Dielectric Fluid > 10712 ppm PCB
- o. Other _____

| | |
|-----------------------------|-------|
| SOILS | 0-50 |
| PAINTS | 0-50 |
| PAINTS | 10-50 |
| VOL. (GLASS, SILK, ETC) | 0-50 |
| | |
| | |
| | |
| | |
| | |
| TOTAL (must add up to 100%) | 100% |

IV. State of Waste
 a. Is this waste ignitable? Yes No
 b. Is waste covered with RCRA water? Yes No
 c. Concentration of PCBs in waste - Analyze laboratory data next to this field

V. Describe the process that generated the waste:
REMEDIATION SOILS AND DEBRIS - LINDEN ROAD LANDFILL

VI. Waste is from storage, recycling, waste type, source and date it involved in RCRA:
- NO FIRE -

VII. The following MUST ACCOMPANY EACH LOAD
 a. A listing of the generators
 b. Date removed from service
 c. Weight of PCBs in kilograms
 d. Total weight of equipment
 e. Resealable capacity
 f. Unique identification number

VIII. Required Certifications
 I am the generator of a waste that is acceptable for land disposal in a TSCA-approved landfill. I hereby certify that this waste to be landfilled has not been deliberately diluted from an original PCB concentration > 400 ppm or deliberately mixed with soil to avoid the incineration requirements of 40 CFR 761.50(a)(1).
 If this waste contains any equipment that has been drained or flushed, I certify that the equipment has been:
 Drained Flushed (check both if applicable) ...in accordance with 40 CFR 761.50(b)

Signature: Richard Hubler Printed Name: RICHARD HUBLER Date: 3/5/93 Title: At Rochester

IX. Shipping Information (40 CFR 178)
 Name: PCBS DOT Hazard Class: _____ UN Number: _____ Packing Group: _____ Reporting Category: _____
 Bulk Liquids Bulk Solids Drums Other (explain) _____
 Net: _____ Gals: _____ One time only

I certify that all the information required by this form has been supplied to USPOI with this form. I certify that all the information provided on and with this form is true, representative of the waste, and correct to the best of my knowledge.
 Printed Name: RICHARD HUBLER Title: Environmental Engineer Telephone: (313) 2578346
 Printed Name: Richard Hubler Title: _____ Telephone: _____

ATTACHMENT C
SHIPPING BILLS OF LADING

Municipal Services Corporation A USPCI Subsidiary
Bevo Mountain Facility - Sawyer, North Dakota

2735

Shipping Bill of Lading

1. Generator's US EPA ID No. (if any)
MI D 8 8 5 6 5 1 8 5 0

2. Page 1 of 1 pages

3. Generator's Name and Mailing Address **AC Rochester GM**

4. Generator's Phone **(313) 257-8346** **R. Hubler** Fax **(313) 257-6900**
4800 S. Saginaw, Flint, MI 48501

5. Transporter 1 Company Name **Marine Pollution Control** **MID049277718**

6. Transporter 2 Company Name

7. Transporter 3 Company Name **USPCI**

8. Transporter 4 Company Name

9. Designated Facility Name and Site Address **U.S. Pollution Control, Inc - Gressey Mt. Facility**
3 Mile East 7 mile. North of exit 41 off I-80
Olive U.T.

| 10. U.S. DOT Description (including Proper Shipping Name) | 11. Containers | | 12. Total Quality | 13. Unit Wt/Vol | 14. Waste Profile Sheet # |
|---|----------------|------|-------------------|-----------------|---------------------------|
| | No. | Type | | | |
| a. Remediation Soils and Debris | 1 | CM | 10950P | | 134079 |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |

15. Additional Descriptions for Materials Listed Above **GB 93-0082GM**

16. Special Handling Procedures for Wastes Listed Above **DBI**

17. Special Handling Instructions and Additional Information
Non-Regulated PCB Soil and Debris Box#410310

18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Printed/Typed Name **RICHARD HUBLER** Signature *Richard Hubler* Month Day Year **06/16/93**

19. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name *Larry Bell* Signature *Larry Bell* Month Day Year **06/16/93**

20. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name *Sylvia Walker* Signature *Sylvia Walker* Month Day Year **06/16/93**

21. Transporter 3 Acknowledgement of Receipt of Materials
 Printed/Typed Name *Brian Bleazard* Signature *Brian Bleazard* Month Day Year **07/15/93**

22. Transporter 4 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month Day Year _____

23. Discrepancy Indication Space **Total 67170410P Per T/L W Dick Hubler. OK 8/2/93**
93G-5292

24. Facility Owner or Operator: Certification of Receipt of non-hazardous materials covered by this Bill of Lading except as noted in item 23.

Printed/Typed Name *Angie Leonelli* Signature *Angie Leonelli* Month Day Year **07/15/93**

- First Copy: Return to Generator
- Third Copy: Transporter #2
- Fifth Copy: Transporter #4
- Seventh Copy: Facility Copy
- Second Copy: Transporter #1
- Fourth Copy: Transporter #3
- Sixth Copy: Generator Copy
- Last Copy: File Copy

GENERATOR
TRANSPORTER
FACILITY

USPCI

A Subsidiary of
Union Pacific Corporation

WASHOUT RECEIPT

GENERATOR NAME GM

LOAD # 5272 TRUCK # 4110310 MANIFEST # _____

TRUCK TYPE DT G T FB O

TYPE OF WASH INT EXT

WASHOUT SIGNATURE _____ DATE / /

DRIVER SIGNATURE _____ DATE / /

WHITE - Records YELLOW - Billing PINK - Driver

USPCI

A Subsidiary of
Union Pacific Corporation

LOAD TICKET

12:49 PM 07 21 93

GROSS 46840 LB

TARE

NET

LOAD # _____ TRUCK # _____ TRAILER # _____

01:30 PM 07 21 93

REMARKS

29800 LB

DRUM COUNT:

DRIVER: _____

COUNT: _____ DATE ___/___/___

OPERATOR: _____

COUNT: _____ DATE ___/___/___

RECEIVING CLERK

Municipal Services Corporation A USPCI Subsidiary
Echo Mountain Facility Sawyer, North Dakota

Shipping Bill of Lading

1. Generator's US EPA ID No. (If any) 2. Gen. BOL No.
M I D 9 8 5 6 5 1 8 5 0 | | | | | | | | | | **2179**

2. Generator's Name and Mailing Address **AC Rochester GM**
4800 S. Saginaw St.
Flint, MI 48501
Generator's Phone (313) 257-8346 R. Hubler Fax (313) 257-6900

3. Transporter 1 Company Name **Marine Pollution Control** MID049277718

4. Transporter 2 Company Name

5. Transporter 3 Company Name

6. Transporter 4 Company Name

7. Designated Facility Name and Site Address **U.S. Pollution Control, Inc. - Grassey Mt. Facility**
~~Municipal Services Corporation, Echo Mountain Facility~~ **3 Mile. East 7 mile. North of exit 41 off I-80**
~~Route 100, Ward County, ND 58078~~ **Oliver U.T.**

| 8. U.S. DOT Description (including Proper Shipping Name) | 9. Containers | | 10. | 11. Unit | 12. |
|--|---------------|------|----------------|----------|-----------------------|
| | No. | Type | Total Quantity | Wt/Vol | Waste Profile Sheet # |
| a. Remediation Soils and Debris | 1 | c m | 03080 | P | 134079 |
| b. | | | | | |

13. Additional Descriptions for Materials Listed Above

GB 93-0082 - GM

14. Special Handling Instructions and Additional Information

Non-Regulated PCB Soil and Debris Box#410380

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Printed/Typed Name **RICHARD HUBLER** Signature *Richard Hubler* Month Day Year **06/17/93**

16. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name *Larry Bell* Signature *Larry Bell* Month Day Year **06/17/93**

17. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name *Ronald R. Bosteen* Signature *Ronald R. Bosteen* Month Day Year **06/17/93**

18. Transporter 3 Acknowledgement of Receipt of Materials

Printed/Typed Name *Janice D.* Signature *Janice D.* Month Day Year **07/15/93**

19. Transporter 4 Acknowledgement of Receipt of Materials

Printed/Typed Name _____ Signature _____ Month Day Year _____

20. Discrepancy Indication Space
per TCW/R. Hubler wt 513 2268 kg per Clarence 7/26/93 RA

93G-5312

21. Facility Owner or Operator: Certification of Receipt of non-hazardous materials covered by this Bill of Lading except as noted in item 23.

Printed/Typed Name **Angie Leonelli** Signature *Angie Leonelli* Month Day Year **07/15/93**

- First Copy: Return to Generator
- Second Copy: Transporter #1
- Third Copy: Transporter #2
- Fourth Copy: Transporter #3
- Fifth Copy: Transporter #4
- Sixth Copy: Generator Copy
- Seventh Copy: Facility Copy

GENERATOR

FACILITY

USPCI

A Subsidiary of
Union Pacific Corporation

WASHOUT RECEIPT

GENERATOR NAME A.C. Rochester

LOAD # 5312 TRUCK # 410380 MANIFEST # _____

TRUCK TYPE DT G T FB O

TYPE OF WASH INT EXT

WASHOUT SIGNATURE [Signature] DATE 7/22/93

DRIVER SIGNATURE [Signature] DATE 7/22/93

WHITE - Records

YELLOW - Billing

PINK - Driver

USPCI

A Subsidiary of
Union Pacific Corporation

LOAD TICKET

5312

GROSS 11:08 AM 07 22 93
TARE 34740 LB
NET

LOAD # _____ TRUCK # _____ TRAILER # _____

11:23 AM 07 22 93
29740 LB

REMARKS _____

S, UUC

DRUM COUNT:

DRIVER: _____

COUNT: _____ DATE ___/___/___

OPERATOR: _____

COUNT: _____ DATE ___/___/___

RECEIVING CLERK

Municipal Services Corporation A USPCI Subsidiary
Echo Mountain Facility • Sawyer, North Dakota

Shipping Bill of Lading

1. Generator's US EPA ID No. (If any) 2. Gen. BOL No.
 M I D 9 8 5 6 5 1 8 5 0 | 2 1 6 6 | 2166

2. Generator's Name and Mailing Address
 AC Rochester GM
 4800 S. Saginaw St., Flint, MI 48501
 Generator's Phone (313) 257-8346 R. Hubler (Linden Rd.)

3. Transporter 1 Company Name U.S. Pollution Control TXD988052494

4. Transporter 2 Company Name Conrail PAD030298400 215-209-1211

5. Transporter 3 Company Name Soo Line MND006962647 800-767-4357

6. Transporter 4 Company Name Municipal Services Corp. 701-624-5622

7. Designated Facility Name and Site Address
 Municipal Services Corporation - Echo Mountain Facility
 1 mile west of Ward County Hwy. 23 on County Road 20, Sawyer, North Dakota 58781, Phone 701-624-5622

| 8. U.S. DOT Description (including Proper Shipping Name) | 9. Containers | | 10. Total Quantity | 11. Unit Wt/Vol | 12. Waste Profile Sheet # |
|--|---------------|------|--------------------|-----------------|---------------------------|
| | No. | Type | | | |
| a. Non Hazardous Not DOT Regulated | X X 1 | C M | 2 5 4 5 0 | P | 82171 |
| b. | | | | | |

13. Additional Descriptions for Materials Listed Above
 EM 93-0341 GM
 NET WT: 27040 ORDER# 35635 LAM# 1401

14. Special Handling Instructions and Additional Information
 Non Regulated Grease/Flyash/Soil Box #410302

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
on behalf of GM

Printed/Typed Name: Richard Hubler Signature: *Richard Hubler* Month Day Year: 07/13/93

16. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: CHARLES HURLEY Signature: *Charles Hurley* Month Day Year: 07/13/93

17. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: *Syvia Walker* Signature: *Syvia Walker* Month Day Year: 07/13/93

18. Transporter 3 Acknowledgement of Receipt of Materials

Printed/Typed Name: Signature: Month Day Year:

19. Transporter 4 Acknowledgement of Receipt of Materials

Printed/Typed Name: Signature: Month Day Year:

20. Discrepancy Indication Space

21. Facility Owner or Operator: Certification of Receipt of non-hazardous materials covered by this Bill of Lading except as noted in item 23.

Printed/Typed Name: Don Steig Signature: *Don Steig* Month Day Year: 07/23/93

- First Copy: Return to Generator
- Third Copy: Transporter #2
- Fifth Copy: Transporter #4
- Seventh Copy: Facility Copy
- Second Copy: Transporter #1
- Fourth Copy: Transporter #3
- Sixth Copy: Generator Copy

GENERATOR FACILITY

A Subsidiary of



A Union Pacific Company

LOAD TICKET

GROSS

060780.1b 11:16 AM 07/23/93

TARE

33740

NET

27040

LOAD # 1401 TRUCK # 503 TRAILER # 410302
3P Blue

REMARKS

DRUM COUNT:

DRIVER: ALK

COUNT: 1 DATE 07/23/93

OPERATOR: _____

COUNT: _____ DATE 1/1

[Signature]
RECEIVING CLERK

Municipal Services Corporation A USPCI Subsidiary
Echo Mountain Facility • Sawyer, North Dakota

Shipping Bill of Lading

1. Generator's US EPA ID No. (If any) 2. Gen. BOL No.
 M I D 9 8 5 6 5 1 8 5 0 1 4 3 8

2. Generator's Name and Mailing Address
 AC Rochester GM
 4800 S. Saginaw St., Flint, MI 48501
 Generator's Phone (313) 257-8346 R. Hubler (Linden Rd.)

3. Transporter 1 Company Name U.S. Pollution Control TXD988052494

4. Transporter 2 Company Name Conrail PAD030298400 215-209-1211

5. Transporter 3 Company Name Soo Line MND006962647 800-767-4357

6. Transporter 4 Company Name Municipal Services Corp. 701-624-5622

7. Designated Facility Name and Site Address
 Municipal Services Corporation - Echo Mountain Facility
 1 mile west of Ward County Hwy. 23 on County Road 20, Sawyer, North Dakota 58781, Phone 701-624-5622

| 8. U.S. DOT Description (including Proper Shipping Name) | 9. Containers | | 10. | 11. Unit | 12. |
|--|---------------|---------|----------------|----------|-----------------------|
| | No. | Type | Total Quantity | Wt/Vol | Waste Profile Sheet # |
| a. Non-Hazardous Not DOT Regulated | X | X 1 C M | 3 0 4 1 0 | P | 82171 |
| b. | | | | | |

13. Additional Descriptions for Materials Listed Above
 EM 93-0341 GM NET WT: 32520 DRUM # 35633 Lot # 1402

14. Special Handling Instructions and Additional Information
 Non Regulated Grease/Flyash/Soil Box #410303

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
on behalf of GM

Printed/Typed Name Signature Month Day Year
 Richard Hubler *Richard Hubler* 10/7/13/93

16. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year
 DAYLE J BLAIR *Dayle J. Blair* 10/7/13/93

17. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year
 Sylvia Waller *Sylvia Waller* 10/7/13/93

18. Transporter 3 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year

19. Transporter 4 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year

20. Discrepancy Indication Space

21. Facility Owner or Operator. Certification of Receipt of non-hazardous materials covered by this Bill of Lading except as noted in item 23.

Printed/Typed Name Signature Month Day Year
 Don Sterg *Don Sterg* 10/7/23/93

- First Copy: Return to Generator
- Third Copy: Transporter #2
- Fifth Copy: Transporter #4
- Seventh Copy: Facility Copy
- Second Copy: Transporter #1
- Fourth Copy: Transporter #3
- Sixth Copy: Generator Copy

GENERATOR

TRANSPORTER

FACILITY

Subsidiary of

JSPCI

A Union Pacific
Company

LOAD TICKET

GROSS
065820. lb 11:25 AM 07/23/93

TARE

33300

NET

32500

LOAD # 1402 TRUCK # 502 TRAILER # 410303
Blue 30

REMARKS _____

DRUM COUNT:

DRIVER: Brett M

COUNT: 1

DATE 07/23/93

OPERATOR: _____

COUNT: _____

DATE 1/1


RECEIVING CLERK

Municipal Services Corporation A USPCI Subsidiary
Echo Mountain Facility • Sawyer, North Dakota

Shipping Bill of Lading

1. Generator's US EPA ID No. (If any) 2. Gen. BOL No.
 M I D 9 8 5 6 5 1 8 5 0 | 2 1 6 7

2. Generator's Name and Mailing Address
 AC Rochester GM
 4800 S. Saginaw St., Flint, MI 48501
 Generator's Phone (313) 257-8346 R. Hubler (Linden Rd.)

3. Transporter 1 Company Name U.S. Pollution Control TXD988052494

4. Transporter 2 Company Name Conrail PAD030298400 215-209-1211

5. Transporter 3 Company Name Soo Line MND006962647 800-767-4357

6. Transporter 4 Company Name Municipal Services Corp. 701-624-5622

7. Designated Facility Name and Site Address
Municipal Services Corporation - Echo Mountain Facility
 1 mile west of Ward County Hwy. 23 on County Road 20, Sawyer, North Dakota 58781, Phone 701-624-5622

| 8. U.S. DOT Description (including Proper Shipping Name) | 9. Containers | | 10. Total Quantity | 11. Unit Wt/Vol | 12. Waste Profile Sheet # |
|--|---------------|------|--------------------|-----------------|---------------------------|
| | No. | Type | | | |
| a. Non-Hazardous Not DOT Regulated | X X 1 | C M | 33 9 7 0 | P | 82171 |
| b. | | | | | |

13. Additional Descriptions for Materials Listed Above
 EM 93-0341 GM *NET WT. 35440*

14. Special Handling Instructions and Additional Information
 Non Regulated Grease/Flyash/Soil *ORDER # 35634 LOAD # 7403* Box #410316

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. *on Behalf of GM*

Printed/Typed Name: Richard Hubler Signature: *Richard Hubler* Month Day Year: 10/7/13/93

16. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: *Bruce Willard* Signature: *Bruce Willard* Month Day Year: 10/7/13/93

17. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name: *Sylvia Walker* Signature: *Sylvia Walker* Month Day Year: 10/7/13/93

18. Transporter 3 Acknowledgement of Receipt of Materials
 Printed/Typed Name: Signature: Month Day Year:

19. Transporter 4 Acknowledgement of Receipt of Materials
 Printed/Typed Name: Signature: Month Day Year:

20. Discrepancy Indication Space

21. Facility Owner or Operator: Certification of Receipt of non-hazardous materials covered by this Bill of Lading except as noted in item 23.
 Printed/Typed Name: *Don Steig* Signature: *Don Steig* Month Day Year: 10/7/23/93

GENERATOR TRASNSPORTER FACILITY



A Union Pacific Company

LOAD TICKET

GROSS
069180. 1b 12:39 PM 07/23/93

TARE
33140
NET 35440

LOAD # 1403 TRUCK # 503 TRAILER # 410-316

Blue 30

REMARKS _____

DRUM COUNT:

RIVER: AIK

COUNT: 1 DATE 08/23/93

OPERATOR: _____

COUNT: _____ DATE 1/1

[Signature]
RECEIVING CLERK

ATTACHMENT D

**NOTIFICATION OF WASTE ACCEPTANCE
AND CERTIFICATION OF DISPOSAL**

PROFILE SHEET #: 82171 SAMPLE #: WP93-00341 ACCEPTANCE #: EM93-0341GM

WASTE STREAM ANALYSIS INFORMATION

Waste Name.....: OIL DISPOSAL AREA WASTE
Physical State.....: SOLID
Process Producing Waste..: REMEDIAL OF AN INDUSTRIAL WASTE LANDFILL
EPA Waste Codes.....: NONE

| | | | |
|--------------|--------|--------------|---------|
| Odor.....: | MILD | Free Liq...: | NEG |
| Sp. Grav...: | 1.44 | pH.....: | 7.22 |
| TCLP.....: | NEG | Org.Vapors: | NEG |
| Reactivity: | NEG | Add.Metals: | NEG |
| % Moisture: | 15.46 | Ignitable..: | NEG |
| Flash Pnt.: | >200 F | RX S.....: | POS |
| RX CN.....: | NEG | TLV SNIFF..: | <25 ppm |
| Radio Act.: | AT BKG | Phase.....: | SINGLE |
| WaterReact: | NEG | Oxidizer...: | NEG |
| H2O Solu...: | PART | | |

This analysis is solely for use by USPCI employees for the purpose of determining waste acceptability. No other claims are made or implied.

AUTHORIZATION

Approval:

Bruce Bogemil

Date: 6-22-93

ECHO MOUNTAIN FACILITY PRE-ACCEPTANCE REPORT

| | |
|--|---|
| PROFILE # 82171 | DATE RECEIVED: 8-1-93 |
| GENERATOR: AC Rochester Division of Du | ADDRESS: Linden Road between Galkins & Cork St. Flint, MI 48501 |
| WASTE NAME: Oil Disposal area waste | EM WASTE STREAM # Em 93-0341 |
| PHYSICAL APPEARANCE: Black/Brown, opaque, single phase, solid, mild odor | |
| % MOISTURE BY WEIGHT: 15.46 | pH (METER/PAPER): 7.22 |
| ORGANIC VAPOR (TLV SNIFFER): <25ppm | SPECIFIC GRAVITY: 1.44 |
| VISIBLE FREE LIQUIDS: YES / (NO) | SOLIDIFICATION REQUIRED: YES / NO |
| FLASH POINT (Closed Cup): >200°F | IGNITABILITY: Neg |
| RADIOACTIVITY SCREEN: A+ BKG | OXIDIZER SCREEN: Neg |
| WATER REACTIVITY: Neg (Part. Sol.) | REACTIVE CYANIDES: Neg <1.0 |
| REACTIVE SULFIDES: Pos <2.0 | |
| COMMENTS: | |

| | |
|--|---------------------------------|
| LABORATORY: National Environmental Testing, Inc. | DATE ANALYSIS PERFORMED: 1-4-93 |
| LAB SAMPLE ID: 92.53148 | |

| TCLP METALS | LIMIT | VALUE (mg/l) | TCLP VOLATILES | LIMIT | VALUE (mg/l) |
|--------------------|-------|--------------|----------------------------|-------|--------------|
| D004 ARSENIC | 5.0 | <0.20 | D022 CHLOROFORM | 6.0 | <0.20 |
| D005 BARIUM | 100 | 1.4 | D028 1,2-DICHLOROETHANE | 0.5 | <0.20 |
| D006 CADMIUM | 1.0 | 0.01 | D029 1,1-DICHLOROETHYLENE | 0.7 | <0.20 |
| D007 CHROMIUM | 5.0 | <0.02 | D035 MEK | 200.0 | <0.20 |
| D008 LEAD | 5.0 | 1.5 | D039 TETRACHLOROETHYLENE | 0.7 | <0.20 |
| D009 MERCURY | 0.2 | <0.0005 | D040 TRICHLOROETHYLENE | 0.5 | <0.20 |
| D010 SELENIUM | 1.0 | <0.0205 | D043 VINYL CHLORIDE | 0.2 | <0.20 |
| D011 SILVER | 5.0 | <0.02 | TCLP SEMI-VOLATILES | LIMIT | VALUE (mg/l) |
| TCLP PESTICIDES | LIMIT | VALUE (mg/l) | D026 CRESOL | 200.0 | <0.10 |
| D020 CHLORDANE | 0.03 | | D024 m-CRESOL | 200.0 | 4.10 |
| D012 ENDRIN | 0.02 | | D023 o-CRESOL | 200.0 | <0.10 |
| D031 HEPTACHLOR | 0.008 | | D025 p-CRESOL | 200.0 | <0.10 |
| D013 LINDANE | 0.4 | | D027 1,4-DICHLOROBENZENE | 7.5 | <0.20 |
| D014 METHOXYCHLOR | 10.0 | | D030 2,4-DINITROTOLUENE | 0.13 | <0.10 |
| D015 TOXAPHENE | 0.5 | | D032 HEXACHLOROBENZENE | 0.13 | <0.10 |
| TCLP HERBICIDES | LIMIT | VALUE (mg/l) | D033 HEXACHLOROBUTADINE | 0.5 | <0.10 |
| D016 2,4-D | 10.0 | | D034 HEXACHLOROETHANE | 3.0 | <0.10 |
| D017 2,4,5-TP | 1.0 | | D036 NITROBENZENE | 2.0 | <0.10 |
| TCLP VOLATILES | LIMIT | VALUE (mg/l) | D037 PENTACHLOROPHENOL | 100.0 | <0.10 |
| D018 BENZENE | 0.5 | <0.20 | D038 PYRIDINE | 5.0 | <0.10 |
| D019 CARBON TET. | 0.5 | <0.20 | D041 2,4,5-TRICHLOROPHENOL | 400.0 | <0.10 |
| D021 CHLOROBENZENE | 100.0 | <0.20 | D042 2,4,6-TRICHLOROPHENOL | 2.0 | <0.10 |

Not analyzed
 Not analyzed

USPCI

A Subsidiary of
Union Pacific Corporation

MAR 09 1993

INSIDE SERVICES

**NOTIFICATION OF WASTE ACCEPTANCE
Grassy Mountain FIMS**

03/05/93

CUSTOMER INFORMATION

EPA ID#: MID985651850
A C ROCHESTER DIVISION OF GM
LINDEN LANDFILL CALKINS RD/CORK ST
FLINT MI 48501
CONTACT: RICHARD HUBLER
PHONE: (313) 257-8346

INVOICE INFORMATION

REF #: MID985651850
A C ROCHESTER DIVISION OF GM
4800 S SAGINAW ST.
FLINT MI 48501
CONTACT:
PHONE:

PROFILE SHEET #: 134079 SAMPLE #: WP93-03892 ACCEPTANCE #: **GB93-0082GM**
RECEIVED: 03/05/93 RECEIVED: 03/05/93 CONTAM SOIL, DEBRIS &/OR RAGS
Last Change Date.: 03/05/93

Thank you for selecting USPCI for your waste management requirements. Your waste stream has been reviewed and is acceptable for management at our facility based on the information provided on the profile sheet number listed above and conditions listed below. Our facility has the necessary permits to allow the storage, the treatment, or the disposal of this waste. The above referenced acceptance number should be listed on all shipping documents and correspondence. Please retain these documents for your records and future reference.

Please contact Customer Service at (801) 595-3900 should you have any questions. To schedule a shipment contact USPCI customer service at 1-800-877-2416.

USPCI Sales Representative: SHELLY CHILDS

PHONE: (313) 229-0770

ACCEPTANCE INFORMATION

The waste stream identified by the reference number above is acceptable for disposal.

This waste is acceptable for delivery beginning on 03/05/93 thru 03/05/94, at which time an update review may be required for continued acceptability.

Comments: **ON SITE STORAGE/ TSCA CELL/ PCB CERTIFICATE ON FILE/ ALSO ACCEPT BULK PENDING ANALYTICAL REVIEW**

Shipping requirements:

Type of Container: CONTAINERS (DRUMS..)

PROFILE SHEET #: 134079 SAMPLE #: WP93-03892 ACCEPTANCE #: GB93-0082GM

WASTE STREAM ANALYSIS INFORMATION

Waste Name.....: CONTAM SOIL, DEBRIS &/OR RAGS
Physical State.....:
Process Producing Waste...: REMEDIATION OF SOILS AND DEBRIS
EPA Waste Codes.....: NONE

This analysis is solely for use by USPCI employees for the purpose of determining waste acceptability. No other claims are made or implied.

AUTHORIZATIONS

Approval: Steve Mack, Ph.D. *SM* Date: 03/05/93

Approval: Donald C. Dew *DD* Date: 03/05/93

U.S. POLLUTION CONTROL IS PROUD TO BE A FULL SERVICE COMPANY!

We want to assist you with the proper completion of the Uniform Hazardous Waste Manifest for this waste stream. Based on your generator information received and our analytical data from WS NUMBER # GB93-0082, we suggest your waste stream could be shipped using the following information.

| | | | | | |
|--|--|---|------------------------|--------------------------------|---------------------------------------|
| UNIFORM HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. MID985651850 | Manifest Document No. | 2. Page 1 of ____ | | |
| 3. Generator's Name and Mailing Address A C ROCHESTER DIVISION OF GM 4800 S SAGINAW ST FLINT MI 48501 | | 4. Generator's Phone (313) 257-8346 | | A. State Manifest Document No. | |
| | | | | B. State Generator's ID | |
| 5. Transporter 1 Company Name U.S. Pollution Control Inc. | 6. US EPA ID Number | C. State Transporter's ID D. Trans. Phone (713) 350-7228 | | | |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | E. F. | | | |
| 9. Designated Facility Name and Site Address U.S. Pollution Control Inc.-Grassy Mt. Facility 3 mi. East, 7 mi. North of Exit 41 off I-80 Clive UT | | 10. US EPA ID Number UTD991301748 | G. State Facility's ID | | H. Facility's Phone (801) 595-3900 |
| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | | 12. Containers No. Type | 13. Total Qty | 14. unit Wt/vol | 15. Waste No. |
| a. PCB'S | | | | | |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| e. | | | | | |
| 12. Additional Descriptions for Materials Listed Above GB93-0082 - CONTAM SOIL, DEBRIS &/OR RAGS | | K. Handling Codes for Wastes Listed Above | | | |
| 15. Special Handling Instructions and Additional Information | | | | | |
| 16. Generator's Certification PLEASE BE SURE THE GENERATOR HAS SIGNED AND DATED IN THIS SECTION OF THE MANIFEST !! | | | | | |

* If Hazardous Waste N.O.S., must list two components that caused this waste to be hazardous.
Location of Facility may require a State insignia upon the Manifest. Please check with the facility if not sure.



396566

RECEIVED
JUL 23 1993

**NOTIFICATION OF WASTE ACCEPTANCE
Grassy Mountain FIMS**

07/20/93

CUSTOMER INFORMATION

EPA ID#: MID985651850
A C ROCHESTER DIVISION OF GM
LINDEN LANDFILL CALKINS RD/CORK ST
FLINT MI 48501
CONTACT: RICHARD HUBLER
PHONE: (313) 257-8346

INVOICE INFORMATION

REF #: MID985651850
A C ROCHESTER DIVISION OF GM
4800 S SAGINAW ST.
FLINT MI 48501
CONTACT:
PHONE:

PROFILE SHEET #: 134079 SAMPLE #: WP93-9916 ACCEPTANCE #: GB93-0082
RECEIVED: 03/05/93 RECEIVED: 03/05/93 CONTAM SOIL, DEBRIS &/OR RAGS
Last Change Date: 07/20/93 Product Code:

Thank you for selecting USPCI for your waste management requirements. Your waste stream has been reviewed and is acceptable for management at our facility based on the information provided on the profile sheet number listed above and conditions listed below. Our facility has the necessary permits to allow the storage, treatment, or disposal of this waste. The above referenced acceptance number should be listed on all shipping documents and correspondence. Please retain these documents for your records and future reference.

Please contact Customer Service at (801) 595-3900 should you have any questions. To schedule a shipment, contact USPCI customer service at 1-800-877-2416.

USPCI Sales Representative: SHELLY CHILDS PHONE: (313) 229-0770

ACCEPTANCE INFORMATION

The waste stream identified by the reference number above is acceptable for disposal.

This waste is acceptable for delivery beginning on 03/05/93 thru 03/05/94, at which time an update review may be required for continued acceptability.

Comments: ON SITE STORAGE/ TSCA CELL/ PCB CERTIFICATE ON FILE/ ALSO ACCEPT BULK

Shipping requirements: NONE

ANALYTICAL UPDATE

Type of Container: CONTAINERS (DRUMS..)

PROFILE SHEET #: 134079 SAMPLE #: WP93-9916 ACCEPTANCE #: GB93-0082

WASTE STREAM ANALYSIS INFORMATION


Waste Name.....: CONTAM SOIL, DEBRIS &/OR RAGS
 Physical State.....: SOLID
 Process Producing Waste...: REMEDIATION OF SOILS AND DEBRIS
 EPA Waste Codes.....: NONE

| | | | |
|--------------|-------|--------------|--------|
| Color.....: | MULTI | pH.....: | NR |
| Water RX..: | NR | Layering...: | SINGLE |
| Normality.: | NR | Sp. Grav...: | NR |
| Absorbants: | NO | TLV.....: | NR |
| Flash Pt..: | NR | T. Solids..: | NR |
| Free Liq..: | NR | CN-Total...: | NR |
| CN-Ammen...: | NR | RX CN Scr.: | NR |
| RX S Scr..: | NR | CN-Rel.....: | NR |
| S2-Rel.....: | NR | TOC.....: | NR |
| PFLT.....: | PASS | Ox. Scr....: | NR |
| Fix Ratio.: | NR | Red. Scr...: | NR |
| Radio Scr.: | NR | BTU/LB.....: | NR |
| PCB's.....: | NR | | |

This analysis is solely for use by USPCI employees for the purpose of determining waste acceptability. No other claims are made or implied.

AUTHORIZATIONS

Approval: Steve Maek, Ph.D. SM Date: 07/23/93

Approval:  Date: 07/20/93

U.S. POLLUTION CONTROL IS PROUD TO BE A FULL SERVICE COMPANY!

We want to assist you with the proper completion of the Uniform Hazardous Waste Manifest for this waste stream. Based on your generator information received and our analytical data from WS NUMBER # GB93-0082, we suggest your waste stream could be shipped using the following information.

| | | | | | |
|--|--|--|---|----------------------|--------------------|
| UNIFORM HAZARDOUS WASTE MANIFEST | | 1. Generator's US EPA ID No. MI0985651850 | Manifest Document No. | 2. Page 1 of ____ | |
| 3. Generator's Name and Mailing Address A C ROCHESTER DIVISION OF GM 4800 S SAGINAW ST FLINT MI 48501 | | | A. State Manifest Document No. | | |
| 4. Generator's Phone (313) 257-8346 | | | B. State Generator's ID | | |
| 5. Transporter 1 Company Name U.S. Pollution Control Inc. | | 6. US EPA ID Number | C. State Transporter's ID D. Trans. Phone (713) 350-7228 | | |
| 7. Transporter 2 Company Name | | 8. US EPA ID Number | E. F. | | |
| 9. Designated Facility Name and Site Address U.S. Pollution Control Inc.-Grassy Mt. Facility 3 mi. East, 7 mi. North of Exit 41 off I-80 Clive UT | | 10. US EPA ID Number UTD991301748 | G. State Facility's ID H. Facility's Phone (801) 595-3900 | | |
| 11. US DOT Description (Including Proper Shipping Name, HM Hazard Class, and ID Number) | | | 12. Containers No. | 13. Total Qty | 14. unit Wt/vol |
| a. PCB'S | | | | | I. Waste No. |
| b. | | | | | |
| c. | | | | | |
| d. | | | | | |
| J. Additional Descriptions for Materials Listed Above GB93-0082 - CONTAM SOIL, DEBRIS &/OR RAGS | | | K. Handling Codes for Wastes Listed Above | | |
| 15. Special Handling Instructions and Additional Information GENERATORS MUST SUPPLY EMERGENCY CONTACT NUMBER PER 49 CFR SECTION 172.604 | | | | | |
| 16. Generator's Certification PLEASE BE SURE THE GENERATOR HAS SIGNED AND DATED IN THIS SECTION OF THE MANIFEST !! | | | | | |

* If Hazardous Waste N.O.S., must list two components that caused this waste to be hazardous. Location of Facility may require a State insignia upon the Manifest. Please check with the facility if not sure.

CERTIFICATE OF DISPOSAL

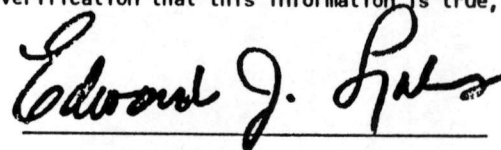
U.S. Pollution Control Inc.-Grassy Mt. Facility
3 mi. East, 7 mi. North of Exit 41 off I-800
Clive, UT
EPA ID # - UTD991301748

As required by 40 CFR 761.218 (a), we are providing this Certificate of Disposal to A C ROCHESTER DIVISION OF GM to confirm that load # 0005312

| LINE | WS NUMBER | WASTE NAME | WEIGHT Kg | TYPE | DISPOSAL CELL | DISPOSED |
|------|-----------|-------------------------------|-----------|------|------------------|----------|
| A | GB93-0082 | CONTAM SOIL, DEBRIS &/OR RAGS | 2268 | B | CELL Z TSCA CELL | 07/22/93 |

shipped on manifest number MID985651850-02179 was/were disposed in an EPA approved chemical waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.



General Manager

Cert. # 93-007474

CERTIFICATE OF DISPOSAL

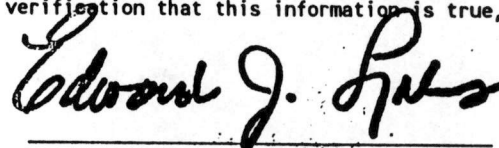
U.S. Pollution Control Inc.-Grassy Mt. Facility
3 mi. East, 7 mi. North of Exit 41 off I-80
Clive, UT
EPA ID # - UTD991301748

As required by 40 CFR 761.218 (a), we are providing this Certificate of Disposal to A C ROCHESTER DIVISION OF GM to confirm that load # 0005292

| LINE | WS NUMBER | WASTE NAME | WEIGHT Kg | TYPE | DISPOSAL CELL | DISPOSED |
|------|-----------|-------------------------------|-----------|------|------------------|----------|
| A | GB93-0082 | CONTAM SOIL, DEBRIS &/OR RAGS | 7728 | B | CELL Z TSCA CELL | 07/21/93 |

shipped on manifest number MID985651850-51850 was/were disposed in an EPA approved chemical waste landfill.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the person who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.



General Manager

Cert. # 93-007492



A Subsidiary of
Union Pacific Corporation

SERVICE PROVIDED BY:

MUNICIPAL SERVICES CORPORATION

ORIGINAL INVOICE

PLEASE PAY FROM THIS INVOICE
NO STATEMENT WILL BE RENDERED

SERVICE FOR:

A C ROCHESTER DIVISION OF GM

LINDEN LANDFILL CALKINS RD/CORR^A ST
FLINT, MI 48501 -1360

BILL TO:
A C ROCHESTER DIVISION OF GM
ATTN: RICHARD HUBLER
4800 S SAGINAW
FLINT, MI 48501 -1360

| CUSTOMER NO. | INVOICE DATE | INVOICE NO. |
|--------------|--------------|-------------|
| 001022958 | 08/16/93 | POL255678 |

| BILL TO NO. | |
|-------------|--|
| 000022282 | |

| ACCOUNTING INFORMATION | |
|------------------------|--------|
| | |
| | TERMS |
| | NET 25 |

| ITEM # | QUANTITY | DESCRIPTION | PRICE | PER | NET AMT |
|--------|----------|-------------|-------|-----|---------|
|--------|----------|-------------|-------|-----|---------|

"We hereby certify that Byproduct Services were performed by Contractor in accordance with General Motors Corporation Purchase Contract No. 4070 and that all Byproducts identified herein have been managed in accordance with the referenced Contract, and all applicable laws and regulations."


Authorized approval.

REMIT TO
ADDRESS: P.O. BOX 201831
HOUSTON, TX 77216-1831
THANK YOU SHELLY CHILDS

PLEASE PAY THIS AMOUNT:
FOR PROPER CREDIT,
PLEASE INCLUDE INVOICE
NUMBER ON REMITTANCE. 5,944.52