## **Engineering Report**

Former Landfill IRM Former IFG Facility (Site No. 7-34-057) Syracuse, NY

General Motors Corporation Syracuse, NY

November 2006

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Former Landfill
Interim Remedial Measure
Former IFG Facility
(Site No. 7-34-057)
Syracuse, NY

General Motors Corporation Syracuse, NY

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November 2006



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## List of acronyms and abbreviations located within the text

ASTM American Standard Test Method

CBR California bearing ratio

CERCLA Comprehensive Environmental Response, Compensation, and Liability

Act

CQA Construction quality assurance
CQC Construction quality control
CRA Conestoga-Rovers & Associates
CWM Chemical Waste Management
DUSR Data usability summary report
ESA Environmental site assessment

fbg Feet below grade

FTMS Federal Test Method Standard GM General Motors Corporation

IFG Inland Fisher Guide
IRM Interim remedial measure

IWTP industrial wastewater treatment plant
LLDPE Linear low-density polyethylene
MQA Manufacturer's quality assurance
MQC Manufacturer's quality control

NCP National Oil and Hazardous Substances Contingency Plan

NIMO Niagara Mohawk – A National Grid Company

NPL National Priorities List

NSF National Sanitation Foundation

NYSDEC New York State Department of Environmental Conservation

NYSDOT New York State Department of Transportation

PAOC Potential area of concern PCBs Polychlorinated biphenyls PDI Pre-design investigation

RI/FS Remedial investigation/feasibility study

RCP Reinforced concrete pipe ROD Record of decision

SARA Superfund Amendments and Reauthorization Act SPDES State pollutant discharge elimination system

SVOC Semivolatile organic compound

TCLP Toxicity characteristic leaching procedure

TSCA Toxic Substance Control Act

TSDF Transportation, storage and disposal facility
USEPA United States Environmental Protection Agency

VOC Volatile organic compound

## 1. Introduction

This engineering report documents the construction of the Interim Remedial Measure (IRM) for the Former Landfill at the General Motors Corporation (GM) Former Inland Fisher Guide (IFG) Facility and Ley Creek Deferred Media (collectively designated the Site). This report has been prepared by O'Brien & Gere Engineers, Inc. in accordance with the requirements set forth in paragraph VI. C of the Administrative Order on Consent (Index # D-7-0001-97-06; Order) between GM and the New York State Department of Environmental Conservation (NYSDEC), which became effective September 25, 1997.

Between August of 2001 and December of 2005, three large-scale IRMs were designed and implemented at the Former IFG Facility under the Order. These IRMs addressed environmental media investigated as part of a Remedial Investigation/Feasibility Study (RI/FS) being conducted under the Order. The IRMs were the Former Landfill IRM, the Former Drainage Swale IRM, and the SPDES Treatment System IRM. These programs were performed as IRMs prior to completion of the RI/FS with the objective of accelerating facility remediation to accommodate redevelopment of the facility. The Former Landfill IRM consisted of the construction of a landfill cover to address a former landfill located in the northwestern portion of the facility property. The Former Drainage Swale IRM consisted of the removal of polychlorinated biphenyl (PCB) containing subsurface material. The SPDES Treatment System IRM consisted of the construction of a large retention basin and treatment system to treat facility storm water for PCBs and volatile organic compounds (VOCs) prior to discharge off-site. Construction work for the Former Drainage Swale and the SPDES Treatment System IRMs was largely co-located in the central northern portion of the facility property. The Former Drainage Swale IRM and SPDES Treatment System IRMs are documented in separate Engineering Reports both dated January 20, 2006 (O'Brien & Gere 2006a, 2006b).

## 1.1. Site description

The Former IFG Facility and the Ley Creek Deferred Media Site is located at 1 General Motors Drive in the Town of Salina, Onondaga County, New York. A location map is provided as Figure 1-1. The Former IFG Facility comprises approximately 65 acres of property. Structures include the main manufacturing building, the attached administration building, the primary switch house, the powerhouse, the industrial wastewater treatment plant (IWTP), mold storage (former tank farm) building, and bulk handling building. Various paved parking lots

and undeveloped areas are present on the property. A facility plan is provided as Figure 1-2.

The facility is bounded to the south by Conrail railroad tracks and a wood pallet recycling facility; to the east and northeast by Military Circle (formerly GM Circle) and Townline Road; to the west by a Niagara Mohawk – A National Grid Company (NIMO) electrical transfer station; and to the north by Factory Avenue and an undeveloped area adjacent to Ley Creek. New York State Wetland SYE – 6 is located north and west of the electrical transfer station.

The facility is currently being redeveloped for tenant use. To date, ten tenants occupy space or are preparing to occupy space in the building.

The facility is located in an area zoned for industrial use in the Town of Salina; a small portion of the facility (entrance gate area and a portion of the parking lot) is located in the Town of Dewitt. The area surrounding the facility can generally be characterized as highly urbanized. The area is also characterized by a high degree of industrial activity, as evidenced by the presence of manufacturing facilities such as Carrier Corporation, Syracuse China Corporation, Magna International New Process Gear, Inc., and Bristol-Myers Squibb Company. Numerous small industrial businesses are present along Factory Avenue and in nearby areas of the City of Syracuse. Syracuse International Airport-Hancock Field is located approximately 1½ miles north of the facility.

The Ley Creek PCB Dredgings site is located directly north of the facility and Factory Ave. The Ley Creek PCB Dredgings site consists of the area between Factory Avenue and Ley Creek, extending west from Townline Road for approximately 4,300 ft. Ley Creek Deferred Media include ground water underlying the Ley Creek PCB Dredgings site and surface water and sediment in Ley Creek between Townline Road and Route 11.

## 1.2. Site history

Historically, the facility was used for the manufacture of metal automotive trim components such as bumpers, grills, wheel disks and hubcaps. More recently, the facility was used for the manufacture of interior and exterior plastic trim components such as bumpers, grills and door panels. The facility began operations in 1952 as the Brown-Lipe-Chapin Division of GM. Operations conducted at the facility included metal die casting; nickel, chromium and copper cyanide electroplating; stamping; polishing; buffing; painting and machining. The products of these operations were the metal automotive parts as previously mentioned. In 1961 Brown-Lipe-Chapin merged with another GM division, Ternstedt, and subsequently became part of GM's Fisher Body Division in 1968. During the early 1960's injection molding operations

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were added to the existing metal operations. Metal finishing and die casting were subsequently reduced and replaced by injection molding by the early 1970's. The facility operated as the Fisher Body Division until 1984, when it became the Fisher Guide Division until 1989. The facility then operated as the Inland Fisher Guide Division of GM from 1989 until the facility ceased manufacturing operations in December 1993. In 1992, prior to ceasing of manufacturing operations, the facility was operating 127 injection molding machines. After the facility ceased manufacturing operations in 1993, the facility was reassigned to GM's North American Operations Property Management Group, which was later re-designated the Worldwide Facilities Group.

An on-site landfill, occupying approximately 7 acres, is located northwest of the manufacturing building, as shown on Figure 1-2. The landfill was used from 1952 to 1961 or 1962 for the disposal of boiler fly ash and bottom ash, paint and buffing sludges, plating wastes (estimated 10 cu yd per year), general trash, and construction debris. Six to eight feet of general fill material (consisting of brown, fine silty sands mixed with cobbles, gravel, and concrete) was reportedly placed on the landfill in 1962 or 1964. Disposal of boiler fly ash and construction debris continued until about 1970.

GM and NYSDEC entered into an Administrative Order on Consent (Index # D-7-0001-97-06; Order) on September 25, 1997. The Order called for the development and implementation of a Remedial Investigation/Feasibility Study (RI/FS) at the site located at 1 General Motors Drive in the Town of Salina, Onondaga County, New York. The Order also provided for the performance of IRMs. The Former IFG Facility and Deferred Media site is classified as a Class 2 site on NYSDEC's Registry of Inactive Hazardous Waste Disposal Sites (Site No. 7-34-057). The Ley Creek Deferred Media include ground water underlying the Ley Creek PCB Dredgings site, which is also a Class 2 site on NYSDEC's Registry (Site No. 7-34-044), as well as surface water and sediment in Ley Creek between Townline Road and Route 11. The Former IFG Facility and the Ley Creek PCB Dredgings sites were also designated as sub-sites of the Onondaga Lake National Priorities List (NPL) site by NYSDEC and the United States Environmental Protection Agency (USEPA).

A Preliminary RI/FS Report was developed by O'Brien & Gere on behalf of GM for the Former IFG Facility and Ley Creek Deferred Media and submitted on October 24, 1997 (O'Brien & Gere 1997). NYSDEC issued comments on the Preliminary RI/FS Report on March 13, 1998 (Benjamin 1998). GM's responses were submitted to NYSDEC on May 18, 1998 (Hartnett 1998). As a result of NYSDEC's comments regarding additional data needs, a Supplemental RI was conducted for the site in 1998 and 1999 by O'Brien & Gere in accordance with the approved Final Supplemental RI/FS Work Plan (O'Brien & Gere 1999), the provisions of the Order, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended by the Superfund Amendments and Reauthorization Act (SARA), the USEPA's Guidance for Conducting Remedial Investigations and Feasibility Studies Under

CERCLA (USEPA 1988), and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP; 40 CFR Part 300). A Supplemental RI Report was submitted to NYSDEC on April 20, 2000 in accordance with the Order (O'Brien & Gere 2000a).

Sufficient data were collected as part of the previous investigations and the Supplemental RI to allow for development of an IRM for the former landfill at the Former IFG Facility. GM, in a letter dated May 23, 2001, proposed implementation of an IRM for the former landfill (Hartnett 2001a). NYSDEC agreed with the approach, as documented in its letter of August 13, 2001 (Benjamin 2001b).

## 1.3. Summary of historic and pre-design investigative activities

Several environmental investigations have included the sampling and analysis of landfilled material and soil in the vicinity of the former landfill. These investigations are summarized in the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a). A brief description of the investigations is provided below.

## 1.3.1. Historic investigations

1991 Onondaga County Ley Creek Relief Interceptor Sewer Area Sampling Program. As part of the installation of the Ley Creek Relief Interceptor Sewer in 1991, Onondaga County's contractors collected subsurface soil samples along the pipeline route (Onondaga County 1991). Soil samples LC-3, 122.0, 123.4, 123.43, 123.87, 124.0 were collected as part of this effort. Following completion of construction of the sewer, Onondaga County's contractors collected seven surface soil samples in the vicinity of the former landfill. These samples were indicated by station intervals (e.g., 120+42-121+20).

Soil borings BFA-5 and BFA-7 were installed north of the former landfill and south of Factory Avenue prior to construction of the Ley Creek Relief Interceptor Sewer as part of the geotechnical investigation (Blasland, Bouck, & Lee 1989). No analytical data were collected from soil borings completed as part of the geotechnical investigation.

1993 O'Brien & Gere storage cell confirmation sampling program. O'Brien & Gere collected ten confirmatory surface soil samples (S1 to S10) from an area on the northwestern portion of the former landfill in 1993. Samples were collected in the former location of a storage cell used for PCB-contaminated soil excavated during the Ley Creek Relief Interceptor Sewer Area IRM. These confirmatory soil samples were collected with a hand trowel and analyzed for PCBs (O'Brien & Gere 1994).

1995 – 1996 Conestoga – Rovers & Associates (CRA) Phase II Environmental Site Assessment (ESA). A Phase II ESA was performed 1.Introduction

by CRA in August 1995, subsequent to a Phase I ESA, to evaluate the presence of contaminant releases into the environment that may have occurred at potential areas of concern (PAOC) at this facility. Additional Phase II ESA activities were conducted at the facility in April 1996 to address data gaps and to characterize the extent of contamination at certain PAOCs where the August 1995 Phase II ESA activities had indicated the presence of a contaminant release. The former landfill was identified during the Phase I ESA as a PAOC. Sampling activities in the vicinity of the former landfill associated with the Phase II ESA included the installation of three soil borings (BH-1, BH-2, and BH-3), collection of one soil sample from each boring, and analysis of the samples for VOCs, SVOCs, PCBs, RCRA metals (arsenic, barium cadmium, chromium, lead, mercury, selenium, and silver) and cyanide.

1996 NIMO Factory Avenue soil sampling. NIMO installed soil borings along the north and south sides of Factory Avenue to evaluate soil conditions at proposed power pole locations. Borings were designated by proposed pole location numbers. Borings installed north of the former landfill include 37E, 37C, 37W, 38, and 39 (NIMO 1996). Soil samples were collected from each boring and analyzed for PCBs.

## 1.3.2. Supplemental remedial investigation

The former landfill was investigated as part of the Supplemental RI. In November 1999, four test trenches were excavated by backhoe in the former landfill area. These test trenches were completed to evaluate the limits of the former landfill and characterize its contents (O'Brien & Gere 2000a). Test trench samples T1-1, T1-2, T1-3, T1-4, T2-1, T2-2, T2-3, T2-4, T3-1, T3-2, T3-3, T3-4, T3-5, T3-6, T4-1, T4-2, and T4-3 were collected based on visual observations during trench installation and analyzed for VOCs, SVOCs, PCBs, site-related metals (arsenic, chromium, copper, lead, nickel, and zinc), cyanide, and mercury.

In addition to the test trenching activities, eight surface soil samples (SS-99-06, SS-99-07, SS-99-08, SS-99-09, SS-99-10, SS-99-11, SS-99-12, and SS-99-13) were collected from the former landfill area to characterize surface conditions for risk assessment purposes.

## 1.3.3. Miscellaneous sampling events

Debris pile sampling. Several debris and concrete piles were located on the former landfill. Five composite samples (NW concrete #1, NW debris #1, NW concrete #2, NW debris #2, and NW concrete #3) were collected from the debris and concrete piles.

Storm Sewer Cleaning/Televising IRM sampling. As part of the Storm Sewer Cleaning/Televising IRM, a new catch basin A2B was installed. Based on PCB concentrations detected downstream of this location, a surface soil sample (A2A Soil) was collected in the vicinity of the future catch basin A2B.

## 1.3.4. Pre-design investigations

As part of the pre-design investigations performed for the former landfill IRM between May 2001 and June 2002, additional subsurface and survey information was obtained. In addition to those between 5/01 and 6/02 pre-design investigations were performed, as documented in the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a).

Geotechnical borings. In May 2001, six geotechnical borings were installed within the landfill limits to a depth of approximately 10 ft. The purpose of the geotechnical borings was to provide geotechnical information to be used in the design of the proposed parking area. The six geotechnical borings were installed with continuous sampling performed for the entire depth as described in the May 23, 2001 letter outlining pre-design investigation activities (Hartnett 2001a).

2001 Test pit excavation. In June 2001, ten test pits (Test Pits 13 through 23) were installed to evaluate the northern and northwestern extent of the former landfill. Seven of the ten test pits were installed between trench 4 and trench 12, which were installed during the 1999 Supplemental RI test trench activities described in Section 2.1.2, and four of the ten test pits were installed in the northwest corner of the former landfill. The test pits were installed at approximately 200 foot intervals, perpendicular to the approximate landfill limit as described in the May 23, 2001 letter outlining pre-design investigation activities (Hartnett 2001a). During these activities, soil samples were collected from test pits 13, 16, 20, and 21 at depths of 5 to 6 ft below grade based on visual observation of landfill material and were analyzed for PCBs. Test pit logs for these test pits are presented in Appendix A of the Former Landfill IRM Revised Work Plan.

2002 Test pit excavation. In May 2002 three test pits (TP-1, TP-2, and TP-3) were excavated to further evaluate the northwestern extent of the former landfill. These were conducted in accordance with the June 14, 2001 letter to Sue Benjamin (Hartnett 2001b). Photographs of these test pits are included in Appendix A.

Soil borings and surface soil samples. To further evaluate the limits of the landfill hot spots associated with 1999 Supplemental RI sample locations SS-99-06, SS-99-08 and SS-99-10, nine soil borings (OBG-TB-48, OBG-TB-49, OBG-TB-50, OBG-TB-51, OBG-TB-52, OBG-TB-53, OBG-TB-54, OBG-TB-55, and OBG-TB-56) were completed in July 2001 in accordance with the June 14, 2001 letter to Sue Benjamin (Hartnett 2001b), and subsequent discussions with NYSDEC (Benjamin 2001). The results of this sampling event are summarized in the Former Landfill IRM Revised Work Plan. The Data Usability Summary Report (DUSR) for these results is included in Appendix B.

Based on the results of soil boring OBG-TB-51, six direct push borings (OBG-TB-57, OBG-TB-58, OBG-TB-59, OBG-TB-60, OBG-TB-61 and OBG-TB-63) were completed in June 2002, consistent with the May 6, 2002 letter to Sue Benjamin (Hartnett 2002a). The results of this

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sampling were documented in the Former Landfill IRM Revised Work Plan. The DUSR for these results is included in Appendix B.

In May 2002, six surface soil samples (SS-02-01, SS-02-02, SS-02-03, SS-02-04, SS-02-05 and SS-02-06) were collected to the west of GM's western property boundary in conjunction with the three test pits excavated in 2002. These samples were collected in accordance with the March 14, 2002 letter to Sue Benjamin (Hartnett 2002b), the March 18, 2002 from Sue Benjamin to Jim Hartnett (Benjamin 2002), and the Former Landfill IRM Draft Work Plan (O'Brien & Gere 2002a). All six samples were analyzed for PCBs and three samples (SS-02-01, SS-02-02, and SS-02-03) were analyzed for VOCs. The results of this sampling event were not available for the Former Landfill IRM Revised Work Plan, but were provided in the August 26, 2003 (Hartnett 2003d) letter to NYSDEC. This letter also included a DUSR for this data.

Survey. A ground topographic survey of the former landfill area and areas adjacent to the landfill was performed in June 2001. The survey consisted of one-foot topographic contour intervals with surveyed locations including boring and test pit locations, utilities, structures, and property lines.

## 1.4. Summary of pre-construction investigations

## 1.4.1. NIMO power structure sampling

In accordance with the letter provided to NYSDEC on April 14, 2003, sixteen soil borings (TB-01-03 through TB-16-03) were advanced on April 21, 2003 and April 22, 2003 to a depth of approximately 16 feet below grade (fbg) in the vicinity of the existing 115 kV H-structures located within the limits of the former landfill for emergency and future structure replacement (Hartnett 2003a). These sampling efforts yielded concentrations of PCBs greater than 50 ppm in seven locations, thus GM proposed in its letter of June 2, 2003, to install seven more borings (at locations of previously installed TB-02-03, TB-10-03, TB-11-03, TB-12-03, TB-13-03, TB-14-03, and TB-16-03) (Hartnett 2003b). These new borings were designated TB-02-03A, TB-10-03A, TB-11-03A, TB-12-03A, TB-13-03A, TB-14-03A, and TB-16-03A. Three additional soil borings (TB-17-03, TB-18-03, and TB-19-03) were added to this scope in the vicinity of two 115 kV poles located on the southern limits of the former landfill as described in GM's letter to NYSDEC of July 1, 2003 (Hartnett 2003c). The June 2, 2003 and July 1, 2003 letter work plans were approved by the NYSDEC on June 6, 2003 and July 14, 2003 (Benjamin 2003a and 2003b). The additional borings were completed in July 2003. PCB data from these boring samples indicated variable PCB concentrations ranging from less than detectable to 6.200 mg/kg. This data was summarized in the August 26, 2003 letter to NYSDEC (2003e).

## 1.5. Summary of data

Based on the investigations conducted in the former landfill, PCBs, metals, VOCs and Semivolatile organic compounds (SVOCs) were detected in surface and subsurface soil samples. Limits of the former landfill were estimated based on physical observations. Limits of hazardous material (i.e. PCB concentrations larger than 50 mg/kg) were designated as hot spots and were to be removed based on analytical results. The extent of fill and estimated limits of hot spots are described below.

#### 1.5.1. Extent of fill

The estimated areal limits of fill material, based on the Supplemental RI test trench and pre-design investigation test pit observations are indicated on Figure 1-2. Based on test trenching activities performed as part of the Supplemental RI and IRM pre-design investigation, ash-like material was observed to extend to the northern fenceline and the northern portion of the western fenceline. Along the northern fenceline, the ash-like material was observed to be present from depths of 1 to 5 ft below grade. Since the ash-like material appeared to taper off at the northern fenceline, further field activities to define the extent of fill in this area were not proposed. In addition, soil boring logs for BFA-5 and BFA-7, which were installed north of the northern fenceline, did not show that fill material was present. Soil boring logs for BFA-5 and BFA-7 and for trenches installed during the Supplemental RI were included in the Former Landfill IRM Revised Work Plan.

In the northern portion of the western fenceline, the ash-like material was observed to be present from 4 to 6 ft below grade in trench 13 and from 0 to at least 10 ft below grade in trench 14. Further test trenching activities to investigate the extent of the ash-like material west of the western fenceline and east of the NIMO access road were performed in May 2002, as described in the Former Landfill IRM Revised Work Plan. An evaluation of the test pitting results was conducted and recommendations were developed with respect to landfill material management in the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a).

Landfill materials, including paint sludge, fly ash material, metal gears, general trash, and grey-blue sludge-like material, were observed in test trenches installed during the 1999 Supplemental RI. These materials were observed to be mixed with other landfill material, rather than present as distinct layers. Paint sludge was observed in all four test trenches at depths ranging from 4 to 12 ft below grade. Ash-like material was observed in all four test trenches at depths ranging from 1 to 10 ft below grade. In trench 3 the ash-like material was mixed with general trash such as paper and rags. Metal gears were encountered in trenches 1, 2, and 4 at depths ranging from 5 to 10 ft below grade. Greyish-blue sludge-like material was observed in trenches 2 and 3 at depths ranging from 5 to 8 ft below grade. Native soil was a brownish grey silt to fine sand with intermittent clay seams and was observed throughout each trench at depths ranging from 7 to 16 ft below grade. The existing

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surface of the former landfill consisted of brown, fine, silty sands mixed with cobbles, gravel, and concrete. This material was observed as deep as 10 ft in trench 4.

#### 1.5.2. Extent of hot spots

Two evaluations of sampling results in or in the vicinity of the former landfill were performed with respect to the horizontal and vertical extent of hot spots as documented in the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a) and in a letter from GM to NYSDEC dated August 26, 2003 (Hartnett 2003d). The extent of these hot spots was based on analytical results from sampling conducted as part of the 1991 Onondaga County post construction interceptor sewer sampling, the 1999 Supplemental RI sampling, 2002 pre-design investigations and 2003 pre-construction investigations.

The evaluations concluded that surface hot spots and subsurface hot spots warranted removal. These were:

Surface hot spots. Three surface hot spots were identified in the vicinity of samples SS-99-08 and SS-99-06 along the western edge of the former landfill, and along the northern limits of the former landfill between stations 4+05 and 6+20. The estimated areas were 10 ft by 10 ft (SS-99-08), 10 ft by 10 ft (SS-99-06), and 215 ft by 20 ft (stations 4+05 and 6+20). These hot spots were assumed to be 1 ft in depth. Their locations are identified on Sheet G-3 of the Record Drawings, contained in Appendix D.

In addition to these surface hot spots identified on the site, four surface hot spots on the adjacent NIMO property were also identified for removal. Two were located between the property boundary and the NIMO access road and in the vicinity of samples 6+10 Bank and SM-101. The approximate extent of each of these hot spots was 10 ft by 10 ft by 1 ft deep. The third hot spot was located between the GM western property boundary and the NIMO access road, extending approximately 650 linear ft by approximately 10 ft wide. The fourth was located between the GM western property line and the NIMO access road in the vicinity of sample SS-02-05 and was approximately 10 ft by 10 ft by 1 ft deep. These hot spots are identified on Sheet G-3 of the Record Drawings, contained in Appendix D.

Subsurface hot spots. Six subsurface hot spots were identified in the vicinity of samples T4-1, OBG-TB-51, OBG-TB-53, the former drainage swale lying within the landfill work limits, TB-02-03A, and TB-11-03A. The estimated extent for each hot spot was 10 ft by 10 ft at depth of 2 ft to 3 ft (T4-1), 10 ft by 10 ft at a depth of 0 to 8 ft (OBG-TB-51), 10 ft by 10 ft at a depth of 0 to 2 ft (OBG-TB-53), 50 ft by 10 ft at a depth of 5 ft to 6 ft (former drainage swale), and 10 ft by 10 ft at a depth of 0 to 2 ft (TB-11-03A). In its letter of October 1, 2003, NYSDEC also required that a subsurface hot spot be removed in the vicinity of TB-02-03A (Benjamin 2003c). The estimated extent of this hot spot was 10 ft by 10

ft at a depth of 10 ft to 16 ft. These hot spots are identified on Sheet G-3 of the Record Drawings, contained in Appendix D.

#### 1.5.3. Geotechnical data

Six geotechnical borings (B-1 through B-6) were installed within the landfill limits to a depth of approximately 10 ft. Boring logs were generated based on visual observations of the material layers encountered during the boring installations and are attached as Exhibit A. Standard penetration blow counts (n-values) were recorded at 2 ft intervals and varied from 3 to 39. The blow counts were used in estimating a California Bearing Ratio (CBR) for use in the pavement thickness calculations used in the cover design.

## 1.6 Interim remedial measure objectives

The Former Landfill IRM work plan included the following remedial objectives developed for the former landfill:

- Minimize potentially unacceptable human health risks associated with direct contact and incidental ingestion of soil
- Eliminate or mitigate, to the extent feasible, existing and potential adverse impacts to fish and wildlife resources from the landfill.

## 1.7. Interim remedial measure summary

The Former Landfill IRM included the following major components:

- Hot spot excavation
- Off-site disposal
- Site grading
- Access roads
- Low permeability cover system
- Vegetative cover
- Storm water conveyance system.

#### 1.8. Interim remedial measure documents

The work plan prepared to implement the Former Landfill IRM comprised the following documents:

- Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a)
- Reuse of soil spoils from excavation of proposed storm water retention basin April 26, 2002 (Hartnett 2002c)

- Proposal for hot spot removal May 6, 2002 (Hartnett 2002a)
- Construction quality control plan (Royal Environmental 2002a)
- Revised perimeter and on-site air monitoring and dust control plan (Royal Environmental 2002b)
- Storm water pollution prevention plan (O'Brien & Gere 2002b)
- Construction water management plan (Royal Environmental 2002c)
- Soil characterization plan around existing H-structures submitted for NYSDEC's information April 14, 2003 (Hartnett 2003a)
- Additional Soil Characterization in the Vicinity of NIMO Hstructures – June 2, 2003 (Hartnett 2003b)
- Addendum to Additional Soil Characterization in the Vicinity of NIMO 115 kV H-structures – July 1, 2003 (Hartnett 2003c)
- Proposed Hot Spot Removal on NIMO Property August 26, 2003 (Hartnett 2003d)
- Proposed on-site Hot Spot Removal August 26, 2003 (Hartnett 2003e)
- Proposed Hot Spot Removal on NIMO Property and Reconfiguration of Drainage Depression on NIMO Property – August 2, 2004 (Hartnett 2004).

## 1.9. Interim remedial measure chronology of events

The following table, Table 1-1, includes a chronology of events that occurred as part of the IRM, starting with the proposal of the Former Landfill IRM to NYSDEC and ending with NYSDEC soil reuse approvals.

**Table 1-1.** Former Landfill IRM Chronology of Events

Date	Event	
May 23, 2001	Letter to NYSDEC to propose Former Landfill IRM	
May 23, 2001	Letter to NYSDEC proposing geotechnical borings, test pit excavation, and survey	
June 14, 2001	Letter to NYSDEC with hot spot evaluation and delineation approach	
July 9, 2001	Letter to NIMO submitting outline of the Proposed Landfill IRM	
August 8, 2001	Transmittal to Town of Salina submitting Former Landfill IRM Work Plan	
August 8, 2001	Transmittal to NIMO submitting Former Landfill IRM Work Plan for review	
August 8, 2001	Letter to County submitting Former Landfill IRM Work Plan for review	
August 8, 2001	Letter to NYSDEC submitting Former Landfill IRM Work Plan for review	
August 8, 2001	Redevelopment letter to NYSDEC regarding use of Landfill area for Resun Leasing, Inc.	

Table 1-1. Former Landfill IRM Chronology of Events			
Date	Event		
August 13, 2001	Letter from NYSDEC approving Mach 23, 2001 Former Landfill IRM scope and approach		
September 4, 2001	Letter from County with comments on August 2001 Landfill IRM submittal		
November 8, 2001	Letter from NYSDEC with comments on August 2001 Landfill IRM submittal		
March 14, 2002	Letter to NYSDEC requesting approval of PDI on NIMO property and May 23, 2001 PDI work.		
March 18, 2002	Letter from NYSDEC approving PDI work listed in March 14, 2002 letter		
April 26, 2002	Letter to NYSDEC requesting approval on Former Drainage Swale IRM being a part of both the Landfill and SPDES Treatment System IRMs		
April 26, 2002	Letter to NYSDEC proposing reuse of soil from SPDES Treatment IRM for use in Landfill IRM		
May 6, 2002	Letter to NYSDEC requesting additional PDI borings and review of hot spot excavation approach		
May 2, 2002	Memorandum from NYSDEC approving reuse of soils as described in the April 26, 2002 letter. (BUD No. 721-7-34)		
May 14, 2002	Letter to NYSDEC clarifying level of data validation for NIMO PDI sampling and that some was SRI data		
May 14, 2002	Letter from NYSDEC approving additional PDI borings and hot spot excavation approach		
May 17, 2002	Letter to NYSDEC containing responses to November 8, 2001 comment letter		
June 21, 2002	Letter to NYSDEC requesting approval of certain IRM activities prior to final NYSDEC approval of the work plan		
June 27, 2002	NYSDEC letter approving Former Drainage Swale IRM approach, and requesting additional information		
June 28, 2002	Letter from NYSDEC approving IRM activities to commence prior to final work plan approval		
July 17, 2002	Letter to NYSDEC consolidating Former Drainage Swale IRM into one document		
July 18, 2002	Revised Former Landfill IRM WP transmitted to NYSDEC		
August 6, 2002	Letter to NYSDEC clarifying soil reuse from the SPDES Treatment System IRM as part of the Landfill		
August 7, 2002	IRM NYSDEC approval of TCL/TAL total analysis as a substitute for TCLP testing during SPDES Treatment System IRM progress meeting for all IRMs		

 Table 1-1. Former Landfill IRM Chronology of Events

Date	Event
September 3, 2002	NYSDEC approval of August 6, 2002 letter for soil
September 13, 2002	reuse Letter to NYSDEC for pipe abandonment plan- use of RCP as fill in landfill
September 19, 2002	Reuse form submitted for use of OB-6 and OB-8 as fill underneath low permeability cover/restricted fill
September 30, 2002	NYSDEC approval of September 19, 2002 reuse form
October 2, 2002	NYSDEC approval of September 12, 2002 pipe abandonment plan- use of RCP as fill in landfill
October 2, 2002	Reuse form submitted for use of OB-11 and OB-12 as fill underneath low permeability cover/restricted fill
October 3, 2002	NYSDEC approval of October 2, 2002 reuse form
October 22, 2002	Reuse form submitted for use of OB-17 and abandoned pipe bedding material as fill underneath low permeability cover/restricted fill
October 28, 2002	NYSDEC approval of revised Landfill IRM, dated July 12, 2002 and incorporating other plans into work plan
October 29, 2002	NYSDEC approval of October 22, 2002 reuse form
December 4, 2002	Reuse form submitted for use of OB-20, RCP-1, and IAPB as fill underneath low permeability cover
December 6, 2002	NYSDEC approval of December 4, 2002 reuse form
April 14, 2003	Soil characterization plan around existing H- structures submitted for NYSDEC's information
May 14, 2003	Modification #1 submitted for approval
May 20, 2003	NYSDEC approval of Modification #1 Sheets G-2, G-4 through and including G-10
May 27, 2003	NYSDEC approval of Modification #1 Sheets E-1 and E-2
June 2, 2003	Letter to NYSDEC requesting approval of additional Soil Characterization in the Vicinity of Niagara Mohawk H-structures
June 6, 2003	NYSDEC approval of the June 2, 2003 Soil Characterization in the Vicinity of Niagara Mohawk H-structures
July 1, 2003	Letter to NYSDEC providing Addendum to Additional Soil Characterization in the Vicinity of Niagara Mohawk 115 kV H-structures submitted for review
July 23, 2003	Storm Water Pollution Prevention Plan – Updated Notice of Intent submitted to NYSDEC
July 14, 2003	NYSDEC approval of July 1, 2003 addendum to

Table 1-1. Former Landfill IRM Chronology of Events			
Date	<b>Event</b> Additional Soil Characterization in the Vicinity of Niagara Mohawk 115 kV H-Structures.		
August 26, 2003	Former Landfill IRM – Proposed approach to the Former Landfill IRM submitted to NYSDEC (on-site hot spots)		
August 26, 2003	Former Landfill IRM Work Plan – Proposed Hot Spot Removal on Niagara Mohawk Property submitted to NYSDEC		
September 2, 2003	Technical Variance # 1 (soil bedding layer) submitted to NYSDEC		
September 4, 2003	NYSDEC approval of August 26, 2003 Former Landfill IRM Work Plan– Proposed Hot Spot Removal on Niagara Mohawk Property.		
September 12, 2003	NYSDEC approval of Technical Variance # 1 (soil bedding layer)		
October 1, 2003	NYSDEC approval of August 26, 2003 proposed approach to the Former Landfill IRM		
August 2, 2004	Proposed hot spot removal and construction activities on NIMO property		
September 1, 2004	NYSDEC approval of hot spot removal and construction activities on NIMO property		
November 17, 2004	Submittal of Technical Variance #5 (seed mixture variance)		
December 15, 2004	Final inspection with GM, NYSDEC, OBG, and Royal		
December 22, 2004	NYSDEC approval of Technical Variance #5 (seed mixture variance).		
February 11, 2005	Reuse form submitted for use of soil piles OB-21, OB-22, COB-1, COB-8, COB-9, COB-10 and COB-11 as fill underneath low permeability cover/restricted fill		
March 7, 2005	NYSDEC approval of soil reuse of soil piles OB-21, OB-22, COB-1, COB-8, COB-9, COB-10 and COB-11.		

Source: O'Brien & Gere

## 2. Interim remedial measure

The IRM comprised the following major components:

- Hot spot removal
- Off-site disposal
- Site grading
- Access roads
- Low permeability cover system
- Vegetative cover
- Storm water conveyance system.

Details associated with each of these components are presented below.

## 2.1. Hot spot removal

A total of thirteen hot spots were excavated in accordance with the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a) and various letter work plans, as described in Section 1.5.2 at the locations shown on Sheet G-3 of the Record Drawings, contained in Appendix D. This included former drainage swale material that was also removed from within the work limits of the Former Landfill IRM. Excavation of each hot spot is described below. Confirmation sample analytical results are summarized in Table 1. Where hot spot removal was not completed due to the presence of utilities, informational samples were collected. Results for informational samples are also summarized in Table 1.

#### 2.1.1. Surface soils

Surface soil hot spots along the northern fence line. One surface hot spot was excavated along the northern fenceline. As described in the May 6, 2002 letter to Sue Benjamin (Hartnett 2002a) and the Landfill IRM Revised Work Plan (O'Brien & Gere 2002a) a surface hot spot was identified in the ditch line between the Former IFG Facility property and Factory Avenue and between stations 4+05 to 6+20. This hot spot was excavated in accordance with Drawing Note 2 on Contact Drawing G-3. Excavated soil was transported off-site, and confirmation samples were collected in accordance with SP-17. The limits of the excavations are depicted on Sheet G-3 of the Record Drawings, contained in Appendix D.

Material was excavated until floor confirmation samples indicated less than detectable concentrations of PCBs. Northern wall samples at stations 4+40, 4+85, 5+40, 5+85, 5+90 along Factory Avenue, indicated PCB detections in excess of the criterion of 50 ppm which were not

removed due to the presence of the NIMO gas line. Confirmation sample results are summarized in Table 1. Electronic copies of analytical results are included in Appendix C. The limits of the excavations are depicted on Sheet G-3 of the Record Drawings, contained in Appendix D.

Surface soil hot spots along the western fence line. As described in the May 6, 2002 letter to Sue Benjamin (Hartnett 2002a) and the Landfill IRM Revised Work Plan (O'Brien & Gere 2002a) two surface hot spots were identified along the western fence line of the site. These were in the vicinity of surface soil samples SS-99-08 and SS-99-06. Following excavation in accordance with Contact Drawing G-3, confirmation samples indicated the need for additional excavation activities. The additional excavation activities conducted for these hot spots were described in the August 26, 2003 letter to Sue Benjamin (Hartnett 2003d). Further excavation was also proposed in the August 26, 2003 letter.

Based on confirmation sampling, the excavation at SS-99-08 was extended approximately an additional 1 ft in depth, an additional 3 ft to the east, and an additional 14 ft to the north. Confirmation samples indicated that material from the SS-99-08 hot spot was excavated until sample results were below the criterion of 50 ppm PCBs. The western extent of the hot spot at SS-99-08 extended west onto NIMO property. In accordance with the August 26, 2003 letter to Sue Benjamin, excavation proceeded approximately an additional 1 ft to the west to a depth of approximately 2 ft. No confirmation was required for this excavation to the west. Confirmation sample results are summarized in Table 1. Electronic copies of analytical results are included in Appendix C. The limits of the excavations are depicted on Sheet G-3 of the Record Drawings, contained in Appendix D. Consistent with the May 6, 2002 letter to Sue Benjamin, excavated soils with PCB concentrations greater than 50 ppm were disposed off-site.

The excavation at SS-99-06 extended approximately an additional 2 ft in the north and west directions. Confirmation samples indicated that material from the SS-99-06 hot spot was excavated until sample results were less than the criterion of 50 ppm PCBs. The extent of the hot spot at SS-99-06 did not extend off site. Confirmation sample results are summarized in Table 1. Electronic copies of analytical results are included in Appendix C. The limits of the excavations are depicted on Sheet G-3 of the Record Drawings, contained in Appendix D. Consistent with the May 6, 2002 letter to Sue Benjamin, excavated soils with PCB concentrations greater than 50 ppm were disposed off-site.

Surface soil hot spots on NIMO property. As described in the August 26, 2003 letter to Sue Benjamin (Hartnett 2003d), two surface hot spots were identified between the GM western property line and the NIMO access road. One surface hot spot extended from the western GM property line to the NIMO access road for an approximate length of 650 ft starting at the entrance to NIMO property for Factory Avenue and extending

towards the south. The other hot spot was located in the vicinity of sample SS-02-05.

In accordance with the August 26, 2003 letter to Sue Benjamin (Hartnett 2003d) and NYSDEC's letter of September 4, 2003 (Benjamin 2003d). the hot spot between the GM property line and the NIMO access road was excavated approximately 10 ft wide and to 1 ft in depth. Excavated material was placed under the low permeability cover on GM property. Following excavation, four floor confirmatory samples (NIMO DITCH MH, NIMO 1+74, NIMO 2+88, and NIMO 4+85) were collected in accordance with NYSDEC's letter of September 4, 2003 (Benjamin 2003d). With the exception of sample 4+85, each sample result was less than 1 ppm PCBs, well below the criterion of 50 ppm PCBs. Based on discussions with NYSDEC in the field, a 10 ft by 10 ft by 1 ft deep excavation was completed around sample location 4+85. confirmation samples exhibited 35 ppm PCBs (4+85-F), 32 ppm PCBs (4+85-N), and 27 ppm PCBs (4+85-S) for the floor, northern and southern walls, respectively. Confirmation samples contained concentrations greater than 50 ppm PCBs at the western and eastern walls. Excavation extended approximately an additional 2 ft to the west and 2 ft to the east. The final confirmation samples on NIMO property showed 20 ppm PCB (4+85-W2) and 2.7 ppm PCBs (4+85-E3) to the west and east, respectively. The excavated material was shipped off-site for disposal. Woven geotextile fabric was placed as an indicator layer on the western wall and on the bottom of the excavation prior to backfilling. Backfilling was accomplished using imported clean fill. Analytical results are summarized in Table 1. Electronic copies of analytical results are included in Appendix C. The limits of the excavation are depicted on Sheet G-3 of the Record Drawings, contained in Appendix D.

The second hot spot identified in the August 26, 2003 letter to Sue Benjamin (Hartnett 2003d) was located at surface soil sample SS-02-05. Based on confirmation sampling, the excavation at SS-02-05 was extended approximately an additional 7 ft to the north. In addition, the excavation was extended approximately 4 ft to the west, until the NIMO access road was encountered, an additional 7 ft to the south, and approximately 2 ft deeper until the NIMO duct back was encountered. The westernmost sample on NIMO property contained 17 ppm PCBs (SS-02-05-W3) and the deepest sample collected over the duct bank contained 14 ppm PCBs (SS-02-05-F3), the southernmost sample showed 42 ppm PCBs (SS-02-05-S2). Woven geotextile fabric was placed as an indicator layer on the western wall and on the bottom of the excavation prior to backfilling. Backfilling was accomplished using imported clean fill. Electronic copies of the analytical results are included in Appendix C. Analytical results are summarized in Table 1. The limits of the excavation are depicted on Sheet G-3 of the Record Drawings, contained in Appendix D.

As identified in the August 2, 2004 letter to Sue Benjamin (Hartnett 2004), in addition to the surface hot spot between the western property boundary and the NIMO access road and at SS-02-05, two other surface hot spots were identified within a drainage depression on the NIMO

property. They were in the vicinity of samples 6+10 Bank and SM-101. The 6+10 Bank sample was located at on the eastern bank of the drainage depression, and the SM-101 sample was located towards the bottom of the northern end of the drainage depression.

Based on confirmation sampling conducted for these two hot spots, the two excavations extended to become one excavation. The excavation at 6+10 Bank extended approximately 25 additional feet to the south, approximately 2 additional feet to the east until reaching the NIMO duct bank, and approximately 2 ft to the north reaching the SM-101 excavation. In addition, the 6+10 Bank hot spot excavation was extended approximately 2 feet deeper. The SM-101 hot spot excavation was extended approximately an additional 4 ft to the east and 1 ft in depth. The westernmost confirmation samples contained concentrations less than 1 ppm PCBs. The southernmost (6+10-S2 and 6+10-S3) and westernmost confirmation samples (6+10-F3 and SM-101-E2) along the eastern bank of the drainage depression exhibited concentrations less than 1 ppm PCBs and 2.1 ppm PCBs, respectively. The northernmost confirmation sample (SM-101-N) within the drainage depression contained PCB at a concentration less than 1 ppm. The easternmost samples (6+10-F3 and SM-101-E2) on the eastern bank of the drainage depression exhibited PCB concentrations of less than 1 ppm and 2.1 ppm, respectively. The southernmost sample (SM-101-S) at the bottom of the drainage depression contained PCBs at a concentration of 15 ppm. Backfilling of this hot spot excavation was performed during the construction activities associated with the pipe reconfiguration within this drainage depression described in Section 2.8. Confirmation sample results are summarized in Table 1. Electronic copies of analytical results are included in Appendix C. The limits of the excavation are depicted on Sheet G-3 of the Record Drawings, contained in Appendix D.

#### 2.1.2. Subsurface soils

Subsurface soil hot spots along western fencelines. As described in the May 6, 2002 letter to Sue Benjamin (Hartnett 2002a) and the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a), two subsurface hot spots were identified along the western property boundary in the vicinity of OBG-TB-51 and OBG-TB-53. The hot spot in the vicinity of OBG-TB-51 was removed in October 2002 in accordance with the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a). The hot spot in the vicinity of OBG-TB-53 was excavated in accordance with the Former Landfill IRM Revised Work Plan and the August 26, 2003 letter to Sue Benjamin (Hartnett 2003d) between August 2002 and October 2003.

Based on confirmation samples associated with the hot spot removal at OBG-TB-51, the excavation was extended approximately an additional 2 ft in depth. Excavated material was disposed off-site. Confirmation sample results are summarized in Table 1. Electronic copies of analytical results are included in Appendix C. The limits of the excavations are depicted on Sheet G-3 of the Record Drawings, contained in Appendix D.

Based on confirmation samples associate with the hot spot removal at OBG-TB-53, the excavation was extended approximately an additional 1 ft in depth, 2 ft to the north, and 4 ft to the east and south. To the west, the excavation extended approximately 1 ft onto NIMO property where the hot spot was excavated to a depth of 4 ft until reaching the NIMO duct bank. The westernmost sample on NIMO property (TB-53-W) contained PCBs at a concentration of 19 ppm. Prior to backfilling with imported clean fill on NIMO property, woven geotextile fabric was placed as an indicator layer on the western wall and bottom of the excavation. Material excavated from on site was disposed off-site. Material excavated from the NIMO property was disposed off-site. Confirmation sample results are summarized in Table 1. Electronic copies of analytical results are included in Appendix C. The limits of the excavation are depicted on Sheet G-3 of the Record Drawings, contained in Appendix D.

Subsurface soil hot spots on-site. Three subsurface hot spots in the vicinity of sample locations T4-1, TB-11-03A, TB-02-03A were identified within the limits of the former landfill. The hot spot in the vicinity of T4-1 was excavated between August 2002 and October 2002, in accordance with the May 6, 2002 letter to Sue Benjamin (Hartnett 2002a) and the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a). Based on confirmation sample results, the hot spot in the vicinity of T4-1 was extended approximately 2 ft to the west. Excavated material was disposed off-site.

The hot spot in the vicinity of TB-11-03A was excavated in accordance with the August 26, 2003 letter to Sue Benjamin (Hartnett 2003e) and discussions with NYSDEC in the October 22, 2004 progress meeting (O'Brien & Gere 2004a). Excavated material was disposed off-site.

The hot spot in the vicinity of TB-02-03A was excavated as requested by NYSDEC in its letter of October 1, 2003 (Benjamin 2003c). Due to the depth of excavation, sheeting was used during excavation of this hot spot. Sheeting was cut to approximately 3 ft below grade and left in place following backfill of this hot spot. Consistent with discussions with NYSDEC during the October 22, 2004 progress meeting (O'Brien & Gere 2004a), no confirmation sampling was collected for this hot spot, however, one informational sample was collected from the hot spot material. Analytical results are summarized in Table 1. Electronic copies of analytical results are included in Appendix C. The limits of the excavations are depicted on Sheet G-3 of the Record Drawings, contained in Appendix D.

Former drainage swale material. The former drainage swale material was observed during trenching activities conducted at the site during the Supplemental RI at depths of 5 to 6 ft below grade having a thickness of approximately 6 to 12 inches. The excavation and confirmatory sampling was conducted in accordance with the Former Drainage Swale IRM Work Plan (Hartnett 2002d), and documented in the Draft Former Drainage Swale IRM Engineering Report (O'Brien & Gere 2005a).

The overburden material with PCB concentrations greater than 10 mg/kg and less than 50 mg/kg that was excavated from areas outside the limits of the cover was consolidated beneath the low permeability cover system. The overburden material was sampled for PCBs prior to being used as backfill. Overburden material having PCB concentrations greater than or equal to 50 mg/kg was disposed of off-site as discussed in Section 2.3. This approach was consistent with the NYSDEC-approved work plan (Hartnett 2000) for the Ley Creek PCB Dredgings Site where a portion of the former drainage swale was excavated for off-site disposal. The limits of the excavation are depicted on Sheet G-3 of the Record Drawings, contained in Appendix D. Confirmation sample results are summarized in Table 1. Analytical results are included in Appendix C.

## 2.1.3. Northwest Debris Pile #2 (NW DP-2)

NW-DP2 was excavated to approximately 1 ft below existing grade and disposed of off-site in accordance with Section 2.2. Post-excavation confirmatory sampling was conducted in accordance with the Former Landfill IRM Revised Work Plan, and indicated that PCB concentrations were below the criterion of 50 ppm. Confirmatory results are summarized in Table 1.

## 2.2. Off-site disposal

Soil/debris contaminated with PCBs at concentrations greater than or equal to 50 mg/kg designated for off-site disposal was loaded into dump trailers for off-site disposal in accordance with the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a). The dump trailers were transported to the Chemical Waste Management (CWM) Transportation, Storage, and Disposal Facility (TSDF) in Model City, New York. The CWM TSDF is a Toxic Substance Control Act (TSCA)-permitted facility.

An estimated 2,703 tons (approximately 4,054 CY) of hot spot material were disposed of at the CWM TSDF. A summary table and the manifests and certificates of disposal for the hot spot material disposed of at the CWM TSDF are included in Exhibit B.

## 2.3. Site grading

Grading was conducted using standard construction equipment (i.e., dozers) to establish the grades presented in Sheets G-2 of the Record Drawings, contained in Appendix D. Consistent with the proposal for placement of additional fill materials beneath the low permeability cover system from the SPDES Treatment System IRM and the Former Drainage Swale IRM documented in a letter dated April 26, 2002 (Hartnett 2002c), overburden material originating on-site and between the property boundary and Factory Avenue was used during site grading. In addition, consistent with soil reuse requests and subsequent approvals from NYSDEC, soil and debris from various redevelopment activities was also used during site grading. A summary of soil originating on-site that was used in construction of the Former Landfill IRM is contained in Tables 2, 3, and 4. Dates associated with soil reuse requests and corresponding NYSDEC approval are included in Tables 2, 3, and 4. During grading activities concrete debris was buried at a minimum of 3 ft below the cover system, consistent with the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a).

#### 2.4. Access roads

#### 2.4.1. Gravel access roads

Two gravel access roads were constructed at the site to facilitate operation or maintenance procedures that may be necessary. The gravel access roads are shown on Sheet G-5 of the Record Drawings, contained in Appendix D. The cross-sections are illustrated on Sheet G-7 of the Record Drawings, contained in Appendix D.

Northern/western gravel access road. This gravel access road is located along the northern and western sides of the asphalt parking lot and runs parallel to Factory Avenue and the western property boundary. This gravel access road ties into the paved access road described in the following sub-section. With the following exceptions, this gravel access road was constructed in accordance with the Former Landfill IRM Revised Work Plan (O'Brien & Gere, 2002a).

- Approximately 320 linear ft was constructed as follows, consistent with Technical Variance # 4 and as shown on Sheet G-7 of the Record Drawings, contained in Appendix D:
  - Top layer: 18 inches run-of-crusher
  - Second layer: Mirafi S1200 fabric
  - Third layer: triplanar geonet
  - Fourth layer: 40 mil low linear density polyethylene (LLDPE) geomembrane
  - Fifth layer: Mirafi S1200 fabric.

- Approximately 300 liner ft were constructed as follows, consistent with Technical Variance # 4 and as shown on Sheet G-7 of the Record Drawings, contained in Appendix D.:
  - Top layer: 12 inches run-of-crusher
  - Second layer: Mirafi 500X fabric
  - Third layer: 8 inches crushed stone
  - Fourth layer: triplanar geonet
  - Fifth layer: 40 mil LLDPE geomembrane
  - Sixth layer: Mirafi S-1200 fabric.

Technical Variance # 4 is contained in Exhibit C-4. Record Drawings are included in Appendix D.

Eastern gravel access road. This gravel access road is located along the eastern edge of the vegetated cover and runs from the north edge of pavement to the vicinity of the SPDES Treatment System IRM treatment building. Construction of this gravel access road was discussed during a field tour that followed a project progress meeting conducted on October 6, 2004, as documented in the corresponding meeting minutes (O'Brien & Gere 2004b) and in meeting minutes of November 3, 2004 (O'Brien & Gere 2004c). As agreed in the field by representatives of GM, NYSDEC, the IRM Contractor and O'Brien & Gere, this gravel access road was constructed using 40 mil textured LLDPE geomembrane, triplanar geonet, woven geotextile fabric, and then crushed stone, from the bottom to the top surface.

#### 2.4.2. Asphalt access road

An asphalt access road was constructed at the site to serve as a tie-in to Factory Avenue. The access road was constructed consistent with the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a), with the following exception:

 The edges of pavement were constructed of asphalt instead of the run-of-crusher stone and concrete valley gutter. This change was discussed by O'Brien & Gere and the IRM Contractor in the field on November 8, 2004, and was performed with Owner and NYSDEC concurrence.

The asphalt access road is shown on Sheet G-5 of the Record Drawings, contained in Appendix D. The cross-section is illustrated on Sheet G-8 of the Record Drawings, contained in Appendix D.

## 2.5. Low permeability cover system

The low permeability cover system installed over the former landfill area consisted of five separate cross-sections. The five cross-sections are described in the following sub-sections.

## 2.5.1. Low permeability vegetative cover

The low permeability vegetative cover cross section was constructed consistent with the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a), with the exception of the soil bedding layer. The soil bedding layer was constructed using Mirafi S1200 in lieu of the 6-inch soil bedding layer called for in the Former Landfill IRM Revised Work Plan, in accordance with Technical Variance #1. Technical Variance #1 was approved by NYSDEC on September 12, 2003 (Benjamin 2003e). Technical Variance #1 is included in Exhibit C-1.

Following installation of the Mirafi S1200, a 40-mil textured LLDPE geomembrane and tri-planar geonet was placed in that order on top of the Mirafi S1200 layer. This was covered with a minimum 12-inch layer of barrier protection material, followed by a minimum of 6 inches of topsoil. The topsoil was fertilized and seeded. The seeding was conducted in accordance with Technical Variance #5. Technical Variance #5 was approved by NYSDEC (Benjamin 2004), and is included in Exhibit C-3. The areas covered using a vegetative cover are illustrated on Sheet G-6 of the Record Drawings, contained in Appendix D.

To accommodate future relocation of four 115 kV power line structures, the following was performed in accordance with Design Modification #1:

- Excavation of approximately 20 ft by 190 ft by approximately 13 ft deep of former landfill material, and replacement with a minimum of approximately 6 ft of compacted embankment material.
- Installation of a minimum of 24 inches of low permeability. Installation of a minimum of 12 inches of barrier protection material.

This area is illustrated on Sheet G-3 of the Record Drawings, included in Appendix D.

To accommodate relocation of one 34.5 kV power pole, the following was performed in accordance with Design Modification #1:

- Excavation of approximately 10 ft by 10 ft deep of former landfill material, and replacement with a minimum of 6 ft of compacted embankment material.
- Installation of a minimum of 24 inches of low permeability material overlain by a minimum of 12 inches of barrier protection material and a minimum of 6 inches of topsoil.

This area is illustrated on Sheet 3 of the Record Drawings, included in Appendix D. Design Modification # 1 was approved by NYSDEC in its letter of May 20, 2003 (Benjamin 2003f).

## 2.5.2. Asphalt parking lot

The asphalt parking lot cross section was constructed consistent with the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a), with the exception of the soil bedding layer. The soil bedding layer was constructed using Mirafi S1200 in lieu of the 6-inch soil bedding layer called for in the Former Landfill IRM Revised Work Plan, in accordance with Technical Variance #1. Technical Variance #1 was approved by NYSDEC on September 12, 2003 (Benjamin 2003e) and is included in Exhibit C-1.

A 40-mil smooth LLDPE geomembrane and tri-planar geonet was placed in that order on top of the Mirafi S1200 layer. This was covered with a minimum 10-inch layer of run-of-crusher stone followed by minimum of 6 inches of bituminous base course, and then by a minimum of 2 inches of bituminous wear course. As required in the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a), the bituminous base course was NYSDOT Asphalt Concrete Type I Item No. 403.11 and the bituminous wear course was NYSDOT Asphalt Concrete Type 6F Item No. 403.1701. Documentation regarding the specifications of the concrete asphalt mixes is included in Exhibit D-12.

As documented in the progress meeting minutes of November 18, 2003, during a field meeting conducted also on November 18, 2003, it was agreed between the IRM Contractor, O'Brien & Gere, GM and NYSDEC that the asphalt testing would consist of nuclear density testing for compaction on a test strip installed that day, while cores would be collected for thickness and compaction testing (O'Brien & Gere 2003). It was also agreed that the asphalt base course would be installed in a single 6 inch lift instead of two 3-inch lifts, with the compaction testing providing documentation that compaction was achieved in the single lift. During subsequent communication with NYSDEC, it was decided that the cores would be omitted (Benjamin 2003g). Compaction results are provided in Exhibit D-12. The area covered with the asphalt cover is illustrated on Sheet G-6 of the Record Drawings, contained in Appendix D.

To accommodate the potential replacement of two 115 kV power poles near the southern boundary of the landfill, the following was performed in accordance with Design Modification #1 with exceptions noted as such:

- Excavation of former landfill material around the two 115 kV power poles. The eastern pole and western pole excavations were approximately 10 ft by 10 ft by 2 ft deep and 10 ft by 10 ft by 4 ft deep, respectively. The eastern excavation was backfilled with a minimum 2 ft of low permeability material. The western excavation was backfilled with approximately 2 ft of compacted embankment material followed by a minimum 2 ft of low permeability material.
- The low permeability material was overlain by a minimum of 10 inches of run-of-crusher stone, minimum of 6 inches of bituminous

base course, and then a minimum of 2 inches of bituminous wear course.

To accommodate relocation of two 34.5 kV power poles, the following was performed in accordance with Design Modification #1:

- Excavation of a minimum of 10 ft by 10 ft by 10 ft deep of former landfill material, and replacement with a minimum of 6 ft of compacted embankment material.
- Installation of a minimum of 24 inches of low permeability material overlain by a minimum of 10 inches of run-of-crusher stone and a minimum of 6 inches of bituminous base course, and then a minimum of 2 inches of bituminous wear course.

This area is illustrated on Sheet G-3 of the Record Drawings, included in Appendix D. Design Modification # 1 was approved by NYSDEC in its letter of May 20, 2003 (Benjamin 2003f).

#### 2.5.3. Access roads

The access roads described in Section 2.4 serve as a functional portion of the low permeability cover system. The locations of the access roads are illustrated on Sheet G-6 of the Record Drawings, contained in Appendix D.

## 2.5.4. Asphalt resurfacing

A portion of the former landfill area (1.29 acres), which was originally covered with asphalt, was resurfaced with the following from subgrade to final grade, consistent with the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a): tri-planar geonet, 4 to 10 inches of run-of-crusher stone, as required to meet final grade, and 6 to 8 inches of asphalt. The area that was resurfaced is illustrated on Sheet G-6 of the Record Drawings, contained in Appendix D. At the northern interface of the asphalt resurfacing and the vegetative low permeability cover, the Mirafi S1200 fabric, 40-mil textured LLDPE geomembrane, and triplanar geonet were placed on the original asphalt with an approximately 3-ft overlap.

## 2.5.5. Rip-rap slopes

The rip-rap slope cross section was constructed consistent with the Former Landfill IRM Revised Work Plan (O'Brien & Gere 2002a), with the exception of the soil bedding layer and the geotextile layer. The soil bedding layer was constructed using Mirafi S1200 in lieu of the 6-inch soil bedding layer called for in the Former Landfill IRM Revised Work Plan, in accordance with Technical Variance #1. Technical Variance #1 is included in Exhibit C-1.

For a 185 ft portion of the western rip-rap slope, the geotextile layer was constructed using Typar SF65 Spunbonded Polypropylene nonwoven geotextile fabric in lieu of the Mirafi 500X specified in the Former Landfill IRM Revised Work Plan, in accordance with Technical Variance #2. Technical Variance #2 is included in Exhibit C-2.

## 2.6. Vegetative cover

Outside the northern limits of the landfill, a vegetative cover was installed to address peripheral surface contamination, consistent with the Former Landfill IRM Revised Work Plan (O' Brien & Gere 2002a). The vegetative cover consisted of the following from subgrade to final grade: a minimum of 12 inches of barrier protection material, which was fertilized and seeded. The seeding was conducted in accordance with Technical Variance #5. Technical Variance #5 was approved by NYSDEC and is included in Exhibit C. The areas covered with the vegetative cover are illustrated on Sheet G-6 of the Record Drawings, contained in Appendix D.

## 2.7. Storm water conveyance system

The storm water conveyance system at the site consisted of the following:

- Grading of the drainage ditch between Factory Ave. and the site to promote storm water runoff drainage to the culverts that run under Factory Ave. across to the Ley Creek PCB Dredgings Site and to Ley Creek.
- Use of existing structure A2A (along the 003 storm sewer line).

Catch basins in the southeastern portion of the low permeability cover were omitted, as discussed during the November 4, 2003 progress meeting. The location of the storm water conveyance system is illustrated on Sheet G-5 of the Record Drawings, contained in Appendix D.

## 2.8. Ditch restoration on Niagara Mohawk property

In accordance with the August 2, 2004 letter to Sue Benjamin (Hartnett 2004), a pipe was installed within a depression on the NIMO property to connect two drainage pipes. The depression was subsequently backfilled. Prior to the connection of the drainage pipes, hot spots associated with two samples, 6+10 Bank and SM-101, were excavated as described in Section 2.1.1. Following removal of the hot spots, the pipe

connection and backfilling was conducted in accordance with the August 2, 2004 letter, with the exception of the following:

• Woven geotextile fabric was not installed prior to installation of the stone bedding.

Final: November 1, 2006		28		O'Brien & Gere
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## 3. Health and safety requirements

The IRM Contractor supplied a health and safety plan for its employees that was followed during implementation of the Former Landfill IRM Revised Work Plan. A copy of the health and safety plan and supporting documentation is retained at the Former IFG Facility. No OSHA recordable injuries or other significant health and safety issues occurred during the implementation of the Former Landfill IRM.

## 4. Sampling and analysis requirements

Post-excavation confirmatory sampling for surface and subsurface hot spots that were excavated were collected in accordance with the Former Landfill IRM Revised Work Plan. In addition, informational samples were collected in instances where removal of hot spots was hindered by the presence of utilities.

Post-excavation confirmatory sampling related to excavation of the former drainage swale within the Former Landfill IRM Revised Work Plan work limits was performed in accordance with the Former Landfill IRM Revised Work Plan. In addition, informational samples were collected in instances where removal of the former drainage swale material was hindered by the presence of utilities.

The excavated overburden material was sampled for PCBs prior to being utilized for grading, at a frequency of one sample per approximately 500 cu yd, with the exception of the surface hot spot between 4+5 and 6+20 along Factory Avenue. Consistent with the Former Landfill IRM Revised Work Plan, the surface 1-ft in this area was excavated and used for grading under the low permeability cover without prior sampling.

Table 1 presents a summary of the results of confirmatory and informational samples. A DUSR for this data was prepared by O'Brien & Gere for the sampling activities during construction. The DUSR is included in Appendix B. The DUSR concluded that overall data usability with respect to completeness was 100 percent for the PCB data. In addition, based on the review performed the data were determined to be usable for qualitative and quantitative purposes.

## 5. Construction quality assurance/construction quality control (CQA/CQC)

This section provides a discussion regarding the CQA/CQC and MQA/MQC activities conducted during implementation of the Former Landfill IRM. The Engineer was O'Brien & Gere and the IRM Contractor was Royal Environmental, Inc. (Royal Environmental). Liner installation was performed by New England Liner Systems, Inc., a subcontractor to Royal Environmental. Third party CQA/CQC was performed by Atlantic Testing, a subcontractor to Royal Environmental. Destructive testing of seams was performed by GeoTesting Express, Inc., a subcontractor to Royal Environmental.

### 5.1. Soil bedding layer

In accordance with Technical Variance #1 submitted by the IRM Contractor, Mirafi S1200 non-woven geotextile fabric was installed in lieu of the 6-inch soil bedding layer called for in the Former Landfill IRM Revised Work Plan. O'Brien & Gere reviewed this technical variance, found the Mirafi S1200 geotextile fabric to be an acceptable substitute, and submitted the technical variance to NYSDEC for approval. Technical Variance #1 was approved by the NYSDEC. A copy of the technical variance and associated NYSDEC correspondence is included in Exhibit C. No testing was required for this material.

#### 5.2. Geomembrane

In accordance with the Former Landfill IRM Revised Work Plan , 40-mil textured/smooth LLDPE geomembrane was utilized as a component of the low permeability cover system. The following sections discuss CQA/CQC and MQA/MQC procedures for installation of the geomembrane.

MQC of geomembrane raw materials by the manufacturer at the plant. The IRM Contractor provided the following documentation from the geomembrane manufacturer regarding quality control of raw materials used to manufacture the geomembrane.

- Certification that the polyethylene resin is new, first quality resin manufactured in the United States from virgin, uncontaminated ingredients and is free of contaminants
- Origin, identification, and shipping date(s) of the raw materials used to manufacture the geomembrane

- Quality control certificates of raw materials used to manufacture the geomembrane
- This documentation is included in Exhibit D-1.
- Reports of tests conducted to verify the quality of the raw materials as follows:

**Table 5-1.** *MOC* of geomembrane raw materials by the manufacturer at the plant.

Parameter	Standard	Frequency	Criteria
Density	ASTM D792 or ASTM D1505	One sample from each resin batch	0.912 to 0.925 g/cm <sup>3</sup>
Melt Index	ASTM D1238	One sample from each resin batch	0.1 to 1.0 g/10 minutes

#### Notes:

- (1) ASTM D792 Test Method for Specific Gravity (Relative Density) and Density of Plastics by Displacement
- (2) ASTM D1505 Test Method for Density of Plastics by the Density-Gradient Technique
- (3) ASTM D1238 Test Method for Flow Rates of Thermoplastics by Extrusion Plastometer
- (4) ASTM D3015 Practice for Microscopical Examination of Pigment Dispersion in Plastic Compounds

The IRM Contractor provided O'Brien & Gere with certified copies of the factory test results for resin density and melt index. Test results for carbon black content and carbon black dispersion for the resin were not provided by the IRM Contractor. Test results are included in Exhibit D-1.

MQC of geomembrane physical properties by the manufacturer at the plant. The IRM Contractor provided the following documentation from the geomembrane manufacturer regarding quality control of physical properties of the geomembrane.

Samples of the production run of the geomembrane material were obtained and tested and the results certified in accordance with the following performance standards:

5. COA/COC

**Table 5-2.** *MQC* of geomembrane physical properties by the manufacturer at the plant.

Parameter		Standard	Criteria	
LLDPE Smooth and	d Textured			
Gauge (Nominal)		ASTM 5199	40 mils	
Thickness (absolute	e minimum)	ASTM D5199	36 mils	
Density (minimum)		ASTM D1505	0.920 g/cm <sup>3</sup>	
Carbon black conte	nt (maximum)	ASTM D1603	2% by weight	
Carbon black dispe	rsion	ASTM D5596	Note 10	
Minimum tensile properties		ASTM D638 (as modified by NSF54)		
<ol> <li>Tensile strength @ break</li> <li>Elongation @ break</li> </ol>		Type IV specimen @ 2 in./minute G.L. = 2 in (51 mm)	160 lb./in. width 500%	
Tear resistance (minimum)		ASTM D1004	22 lb (98N).	
Puncture resistance		FTMS 101C 2065	48 lb. (214N)	
Notes:				
(1) ASTM D2663 (2) ASTM D638 (3) ASTM D1004 (4) Federal Test M (5) ASTM D746 (6) ASTM D1204 (7) ASTM D1693	Test Method fo Test Method fo Method Standard (FT Test Method fo Test Method i Film at Elevate	for Carbon Black Dispersion in Rubber. for Tensile Properties of Plastics. for Initial Tear Resistance of Plastic Film and Sheeting. TMS) – 101C 2065. for Brittleness Temperature of Plastics and Elastomers by Impact. for Linear Dimensional Changes of No rigid Thermoplastic Sheeting of ted Temperature for Environmental Stress-Cracking of Ethylene Plastics		
8) NSF National Sanitation Foundation				

The geomembrane sheets were randomly sampled and tested a minimum of once every 50,000 square ft for the above physical properties. The IRM Contractor provided O'Brien & Gere with certified copies of the factory test results from the geomembrane manufacturer. A stress rupture curve was not provided by the IRM Contractor. The test results received by O'Brien & Gere are included in Exhibit D-1.

*CQC prior to geomembrane installation.* Prior to placement of the geomembrane, the Geosynthetic Installer provided a copy of its Quality Control Program Manual to O'Brien & Gere regarding the installation of the geomembrane. The Quality Control Program Manual included:

- Installation procedures
- Field seaming procedures
- Procedures for repair
- Documentation procedures.

The IRM Contractor performed laboratory friction tests using the American Standard Test Method (ASTM) D5321 - Direct Shear Test Method, as approved by O'Brien & Gere. This was performed to document if a minimum factor of safety of 1.5 could be obtained for the steepest slopes proposed between the following cap system components: soil and tri-planar geonet, textured geomembrane and tri-planar geonet, textured geomembrane and geocushion, textured geomembrane and stabilization fabric, soil and stabilization fabric. and tri-planar geonet drainage layer. O'Brien & Gere evaluated the results of the friction tests. Friction testing was performed with a direct shear box having minimum dimensions of 12 inches by 12 inches and applied normal stresses of 1.0, 2.0, 4.0, and 8.0 psi for each cap system interface. Displacement rates were less than 0.04 inches per minute. The low permeability cap system components were tested in a saturated condition.

The geomembrane was oriented such that the shear force was parallel to the downslope orientation of the geomembrane in the field. A minimum of one test per cap system interface was performed. Test results are presented in Exhibit D-2.

The Geosynthetic Installer provided O'Brien & Gere with verbal acceptance of the subgrade prior to geomembrane installation. Daily subgrade acceptance forms are included in field notes provided in D-2. Written acceptance is also included in Exhibit D-3. No installation of the geomembrane commenced until the surface was accepted by the Geosynthetic Installer. The IRM Contractor was required to repair or re-work any area of the prepared surface requested by O'Brien & Gere, CQC Inspector, or Geosynthetic Installer. In accordance with the geomembrane manufacturer, no special storage was required for the geomembrane stored on-site.

As documented in field notes, the Geosynthetic Installer provided one minimum 18-inch wide by 18-inch long sample of geomembrane to the IRM Contractor for each lot number of geomembrane that arrived at the site for fingerprinting. The Geosynthetic Installer provided O'Brien & Gere with a geomembrane panel layout showing the proposed locations of field seams to be installed. The as-built geomembrane panel layout is provided in Exhibit D-4.

CQC during geomembrane installation. Prior to seaming, the Geosynthetic Installer observed the areas to be seamed to determine that they were free from dirt, dust, moisture, debris, and foreign material. No seaming was performed when the air temperature or sheet temperature was below 32 degrees Fahrenheit (°F), when the sheet temperature exceeds 158 °F, when the air temperature was above 120 °F, during periods of precipitation, or when winds were in excess of 20 miles per hour.

All seaming material was of a type recommended and supplied by the manufacturer and was delivered in the original sealed containers, each with an indelible label bearing the brand name, manufacturer's mark number, and complete directions as to proper storage.

5. CQA/CQC

Seams were made using double wedge welding as the primary method. Extrusion welding was used only for patching and seaming around appurtenances. The minimum finished overlap of the panels of the geomembrane was 5 inches maximum for wedge welding and 3 inches minimum for extrusion welding.

Test seams were made at the start of each seaming period, at the CQC Inspector's discretion, whenever there was a change in seaming personnel or equipment, if significant changes in geomembrane temperature was observed, and at least once every four hours for each seamer and seaming equipment used that day. The field test weld was a minimum of 2 ft long by 1 ft wide with the seam centered lengthwise and was made for each welding machine. Test weld samples were labeled with:

- Date and time
- Roll/panel number
- Seam number
- Ambient temperature
- Welding apparatus
- Temperature and pressures
- Welder's initials
- Top sheet.

Five test strips approximately 1-inch wide were cut from each opposite end of test weld samples by the Geosynthetic Installer and subjected to shear and peel tests at the site, as described in the following sections for destructive testing. When the field tests failed to meet the minimum specified seam requirements, the entire operation was repeated. If the additional test seam fails, the seaming apparatus or seamer was not accepted or used until the deficiencies were corrected and two consecutive successful full test seams were achieved. No seaming personnel began work until his test weld had passed the on-site shear and peel tests as indicated by the CQC Inspector. Seam testing data is included in Exhibit D-6.

*CQA prior to geomembrane installation.* O'Brien & Gere reviewed submittal information provided by the Geosynthetic Installer.

CQA during geomembrane installation. The CQC Inspector inspected delivery tickets and the geomembrane manufacturer's quality control documentation to verify that the geomembrane rolls received on-site met the project specifications. During installation of the geomembrane, the CQC Inspector determined that the geomembrane was installed in accordance with the requirements of the approved engineering plans, reports, and specifications.

The CQC Inspector also inspected the geomembrane visually for the following:

Uniformity

- Damage
- Imperfections
- Tears
- Punctures
- Nodules
- Contaminants
- Blisters.

Imperfections, such as those noted above, were repaired and reinspected. Non-destructive tests were performed on 100 percent of the field seams using either the vacuum test or pressurized dual seam test methods.

The CQC Inspector performed the following during non-destructive seam testing:

- Observed non-destructive testing
- Recorded location, date, test unit number, name of tester, and results of all testing
- Informed the Geosynthetic Installer of required repairs.

Destructive seam testing was performed as the seaming work progresses and not at the completion of seam fabrication. Destructive seam testing was performed at the locations established as follows:

• A minimum frequency of one test for approximately every 500 ft of seam length and for each seaming machine per day.

The samples were a minimum of 18 inches wide by 72 inches long with the seam centered lengthwise. Each sample was cut into three pieces (18 inches x 24 inches) with one piece retained by the Geosynthetic Installer, one piece given to the CQC Geosynthetic Laboratory. Each sample was tagged to identify:

- Roll/panel number
- Seam number
- Date and time cut
- Ambient temperature
- Seaming unit
- Name of seamer
- Welding apparatus temperature and pressures
- Top sheet.

The Geosynthetic Installer cut six 1-inch wide replicate specimens from his sample with the appropriate ASTM cutting tool. Three specimens were tested for shear strength and three for peel adhesion. No seams delaminated or failed in the adjacent sheet material on either side of the seam in a film tear bond.

5. COA/COC

If the field tests pass, testing was performed by the CQC Geosynthetic Laboratory on duplicate samples as follows:

**Table 5-3.** *CQC* of geomembrane if field tests pass.

Parameter	Standard	Criteria
Fusion Seaming		
Shear Strength (minimum) Film Tear Bond	ASTM D4437 (as modified by NSF 54)	56 lb/in
Peel Adhesion (minimum) Film Tear Bond	ASTM D4437 (as modified by NSF 54)	48 lb/in
Extrusion Seaming		
Shear Seaming (minimum) Film Tear Bond	ASTM D4437 (as modified by NSF 54)	56 lb/in
Peel Adhesion (minimum) Film Tear Bond	ASTM D4437 (as modified by NSF 54)	48 lb/in

#### Notes:

(1) ASTM D4437 Practice for Determining the Integrity of Field Seams Used in Joining Flexible Polymeric Sheet Geomembranes.

If the field tests failed, the seam was reconstructed between the failed location and passed test location. Seam reconstruction was achieved by cutting out the existing seam and seaming in a replacement strip or adding a cap strip. In lieu of this, the seaming path was retraced to an intermediate location at least 10 ft in each direction from the location of the sample, which failed the test. At each location a minimum 12 inch by 12 inch size sample was taken for two additional shear strength tests and two additional peel adhesion tests using an approved field tensiometer. If these tests passed, then the remaining sample portion was sent to the CQC geosynthetic laboratory for two shear strength and two peel adhesion tests. If these tests failed, then the process was repeated. After reconstruction, the entire reconstructed seam was non-destructively tested. In any case, acceptable seams were bounded by two passed test locations and included one test location along the reconstructed seam.

The geomembrane surface was cleaned by the Geosynthetic Installer prior to examination of seams and non-seam areas by the CQC Inspector. The CQC Inspector identified defects, holes, blisters, undispersed raw materials and sign of contamination by foreign materials.

Each suspect location in seam and non-seam areas was non-destructively tested, as appropriate. Locations that failed the non-destructive testing were documented by the CQC Inspector and repaired by the Geosynthetic Installer according to the following methods:

- Patching was used to repair holes, tears, blisters, undispersed raw materials, or contaminated areas by foreign materials. Patches and caps were extended a minimum of 6 inches beyond the edge of the defect and were made of the same geomembrane. Corners of patches were rounded with a radius of approximately 3 inches. If extrusion materials were used, the surface of the geomembrane was repaired and abraded no more than one hour prior to the repair
- Spot welding or seaming was used to repair small tears or other localized flaws
- Failed seams were reconstructed. Seams were required to pass non-destructive testing as appropriate.

Records of testing performed during installation are included in Exhibit D-5.

### 5.3. Tri-planar geonet

Construction quality control. The Contractor's CQC Manager provided documentation regarding quality control of physical properties of the triplanar geonet. The tri-planar geonet consisted of a geonet bonded on each side with a non-woven, needle-punched geotextile. Samples of the production run of the tri-planar geonet were obtained and tested and the results certified in accordance with the following minimum average roll values:

**Table 5-4.** *CQC* of tri-planar geonet prior to construction.

Parameter	Standard	Criteria
<u>Geonet</u>		
Peak tensile strength – MD	ASTM D4595	40 ppi
Mass per unit area	ASTM D3776	24.5 oz/yd <sup>2</sup>
Thickness	ASTM D5199	200 mils
Carbon black	ASTM D4218	2% by weight
<u>Geotextile</u>		
Weight	ASTM D5261	$6.0 \text{ oz/ yd}^2$
Grab tensile strength	ASTM D4632	110 lbs
Grab tensile elongation	ASTM D4632	50%
Trapezoid tear strength	ASTM D4533	80 lbs
Mullen burst strength	ASTM D3786	335 psi
Puncture strength	ASTM D4833	85 lbs
Permittivity	ASTM D4491	2.3 sec <sup>-1</sup>

Parameter	Standard Criteria
UV resistance (500 hrs	) ASTM D4355 85%
Finished Tri-planar	<u>geonet</u>
Peel adhesion	ASTM F904 4.54 g/in
Transmissivity at norm 500 psf and hydraulic g	nal pressure of ASTM D4716 2.0 x 10 <sup>-3</sup> m <sup>2</sup> /sec gradient of 1.0
Notes:	
(1) ASTM D3776	Test Method for Mass per Unit Area (Weight) of Woven Fabric.
(2) ASTM D5199	Test Method for Measuring Nominal Thickness of Geotextiles and Geomembranes.
(3) ASTM D4632	Test Method for Grab Breaking Load and Elongation of Geotextiles.
(4) ASTM D4533	Test Method for Trapezoid Tearing Strength of Geotextiles.
(5) ASTM D3786	Test Method for Hydraulic Bursting Strength of Knitted Goods and Nonwoven Fabrics: Diaphragm Bursting Strength Tester Method.
(6) ASTM D4833	Test Method for Index Puncture Resistance of Geotextiles, Geomembranes, and Related Products.
(7) ASTM D4491	Test Methods for Water Permeability of Geotextiles by Permittivity.
(8) ASTM D4355	Test Method for Deterioration of Geotextiles from Exposure to Ultraviolet Light and Water (Xenon-Arc Type Apparatus).
(9) ASTM F904	Test Method for Comparison of Bond Strength or Ply Adhesion of Similar Laminates made from Flexible Materials.
(10) ASTM D4716	Test Method for Constant Head Hydraulic Transmissivity (In-Plane Flow) of Geotextiles and Geotextile Related Products.

The Contractor's CQC Manager provided O'Brien & Gere with certified copies of the factory and laboratory test results. In addition, the IRM Contractor's CQC Manager provided the manufacturer's certification that the tri-planar geonet met the chemical, physical, and manufacturing requirements. Records of test results and certifications are included in Exhibit D-6.

Construction quality assurance. Prior to procurement of material and during construction, O'Brien & Gere reviewed and verified submittal and sample information from the IRM Contractor's CQC Manager. The information was reviewed to determine if the proper information was submitted. Results of the testing were provided to O'Brien & Gere for acceptance.

During installation of the tri-planar geonet, the CQC Inspector:

- Monitored that the tri-planar geonet was installed in accordance with the requirements of the Contract Documents and as shown on the Record Drawings, contained in Appendix D.
- Made observations that the geonet was not damaged during the installation process.

## 5.4. Barrier protection layer

Construction quality control. The barrier protection layer consisted of a minimum 12-inch thick soil layer installed on top of the tri-planar geonet drainage layer. The barrier protection layer was generally uniform in composition and texture. Prior to installation of the barrier protection layer, the IRM Contractor's CQC Manager collected samples of the proposed soils and submitted the samples to the CQC Geotechnical Laboratory for testing as follows:

**Table 5-5.** *CQC* of barrier protection layer prior to construction

Parameter	Standards	Criteria	
Particle Size Analysis	ASTM D422	Material proposed f protection layer:	or 12-inch lift of barrier
		% Passing	Sieve
		100	2-inch
		20-30	No. 200
Compaction Characteristics	ASTM D698	Develop compactio	n characteristics

Notes:

ASTM D422 ASTM D698 Method for Particulate Size Analysis of Soil

Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort

 $(12,400 \text{ ft-lbf/ft}^3) (600 \text{kN-m/m}^3)$ 

Construction quality assurance. Prior to procurement of material and during construction, O'Brien & Gere reviewed and verified submittal and sample information from the IRM Contractor's CQC Manager. The information was reviewed to determine if the proper information was submitted. O'Brien & Gere returned the submittals to the IRM Contractor, and depending on the review (acceptance or non-acceptance), the IRM Contractor proceeded with ordering the materials. Results of these tests are included in Exhibit D-7.

The IRM Contractor submitted an affidavit from the owner of the source of barrier protection material stating that to the best of his knowledge, the site of the source material was never used as a dump site for chemical, toxic, hazardous or radioactive materials and it was not then, or ever had been, listed as a suspected depository for chemical, toxic, hazardous, or radioactive materials by any federal, state, or other governmental agency, department, or bureau. In addition, the IRM Contractor provided analytical results for TCLP testing of the barrier protection material that indicated that it was not hazardous waste. A copy of this documentation is included in Exhibit D-7.

During installation of the barrier protection layer, material from the borrow source was tested by the Contractor's CQC Geotechnical Testing Laboratory in accordance with the following:

C of barrier protection layer during construction.
c of barrier protection tayer during cons.

Parameter	Standard	Minimum frequency	Criteria
In-Place Density	ASTM D1556 or ASTM	5 tests per acre per lift of	95% of the Standard
	D2922 or ASTM D2167	soil placed (Results for 7	Proctor Compaction as
		tests provided)	determined by ASTM 698
In-Place Moisture Conten	t ASTM D3017	5 tests per acre per lift of soil placed (Results of only 7 tests provided)	Monitor compaction
Notes:			
(1) ASTM D1556 Te	st Method for Density and Unit V	Veight of Soil In Place by the S	and-Cone Method
(2) ASTM D2922 Te	st Methods for Density of Soil ar	nd Soil-Aggregate In Place by I	Nuclear Methods (Shallow
	pth)		
• •	andard Test Method for Density	and Unit Weight of Soil in Place	e by the Rubber Balloon
	ethod	Sail and Back in Blace by Nucl	nor mathada (Challau Danth)
(4) ASTM D3017 Te	st Method for Water Content of	Soli arid Rock in Place by Nucl	ear methods (Shallow Depth)

Test results for in-field particle size analysis and liquid limit/plastic limit/plasticity index to monitor material consistency were not provided by the Contractor. A total of seven results of in-place density and moisture content testing were submitted to O'Brien & Gere for acceptance. Results of the testing are included in Exhibit D-7.

## 5.5 Topsoil

Construction quality control. Topsoil used at the site originated from onsite, therefore, topsoil CQC testing was omitted. Electronic copies of analytical results for the topsoil are included in Appendix C. Dates of soil reuse requests and corresponding NYSDEC soil use approvals are summarized in Table 4.

The topsoil used during construction of the vegetated cover was visually inspected by O'Brien & Gere. O'Brien & Gere performed inspections to evaluate the placement of topsoil in accordance with the Contract Documents. The Contractor was required to place a minimum 6-inch thickness of topsoil as shown on the Record Drawings or as specified in the Contract Documents.

#### 5.6. Fertilization and seeding

Construction quality control. As part of CQC, the Contractor's CQC Manager submitted the following information to O'Brien & Gere for acceptance prior to fertilization and seeding activities:

- Seed vendor's certified statement for the grass seed mixture required, stating common name, scientific name, percentage by weight, and percentages of purity and germination
- Fertilizer vendor's certified statement for the fertilizer required stating guaranteed statement of analysis

• Documentation providing data concerning hydroseeding equipment (if used), including material application rates.

The grass seed was of commercial stock of the current season's crop and was delivered in unopened containers bearing the guaranteed analysis of the mix. The mix was in accordance with the requirements of the approved engineering plans and specifications.

Fertilizer was a standard quality commercial carrier of available plant food elements. Fertilizer was a complete, prepared, and packaged material and contained a minimum of 10% nitrogen, 10% phosphoric acid, and 10% potash.

Construction quality assurance. O'Brien & Gere performed inspections to evaluate that fertilization and seeding materials met the requirements of the Contract Documents. O'Brien & Gere also inspected the application rates of seed and fertilizer and mulch with respect to the specifications. Seed and fertilizer information are included in Exhibit D-11.

## 5.7. Rip-rap

Rip-rap used during construction was NYSDOT Item 620-2.02 Stone Filling. The characteristics of NYSDOT Item 620-2.20 Stone Filling generally are consistent with the Former Landfill IRM Revised Work Plan Technical Specification 02271 Dumped Rip-rap, therefore, no testing was performed for rip-rap characteristics. The IRM Contractor submitted an affidavit from the owner of the source of the rip-rap stating that to the best of his knowledge, the site of the source material was never used as a dump site for chemical, toxic, hazardous or radioactive materials and it was not now, then or ever had been, listed as a suspected depository for chemical, toxic, hazardous, or radioactive materials by any federal, state, or other governmental agency, department, or bureau. Documentation regarding rip-rap is included in Exhibit D-8.

Construction quality assurance. The IRM Contractor placed a minimum thickness of rip-rap as shown on the Record Drawings or as specified in the Contract Documents

#### 5.8. Geotextile filter fabric

Construction quality control. Prior to installation of the geotextile filter fabric, the IRM Contractor's CQC Manager provided documentation regarding quality control of physical properties of the geotextile filter fabric. The geotextile filter fabric consisted of a nonwoven, needle-punched geotextile. Samples of the production run of the geotextile

5. COA/COC

material were obtained and tested and the results certified in accordance with the following minimum average roll values:

**Table 5-7.** CQC for geotextile filter fabric prior to construction.

Parameter	Standard	Criteria	
Mass per unit	ASTM D5261	Minimum 4.0 oz/yď <sup>2</sup>	
Permittivity	ASTM D4491	Minimum of 1.95 sec <sup>-1</sup>	
Grab Tensile Strength	ASTM D4632	Minimum 180 lbs	
Grab Tensile Elongation	ASTM D4632	Minimum 50%	
Trapezoid Tear Strength	ASTM D4533	Minimum 45 lbs	
Puncture Strength	ASTM D4833	Minimum 65 lbs	
Mullen Burst Strength	ASTM D3786	Minimum 240 psi	
UV Resistance	ASTM D4355 (after 150 hours)	70% strength retained	
Apparent Opening Size	ASTM D4751	Maximum No. 70 U.S.	
Notes: (1) ASTM D4491 (2) ASTM D4632 (3) ASTM D4533 (4) ASTM D4833 (5) ASTM D3786 (6) ASTM D4355 (7) ASTM D4751	Test Method for Grab Breaking Load and Elongati Test Methods for Trapezoidal Tearing Strength of Test Methods for Index Puncture Resistance of G Test Method for Hydraulic Bursting Strength of Kn Test Method for Deterioration of Geotextiles from	nods for Water Permeability of Geotextiles by Permittivity shod for Grab Breaking Load and Elongation of Geotextiles shods for Trapezoidal Tearing Strength of Geotextiles shods for Index Puncture Resistance of Geotextiles and Geomembranes shod for Hydraulic Bursting Strength of Knitted Goods shod for Deterioration of Geotextiles from UV Exposure and Water (Xenon-Arc) shod for Determining the Apparent Opening Size of a Geotextile	

The IRM Contractor's CQC Manager provided O'Brien & Gere a cut sheet for the filter fabric used. The cut sheet is included in Exhibit D-9.

Construction quality assurance. O'Brien & Gere reviewed and verified submittal and sample information from the IRM Contractor's CQC Manager. The information was reviewed to determine if the proper information has been submitted.

The geotextile filter fabric was installed in accordance with the requirements of the Contract Documents and as shown on the Record Drawings, contained in Appendix D.

During the installation phase, the geotextile filter fabric was visually inspected for the following:

- Defects
- Rips
- Holes
- Flaws
- Deterioration
- Damage.

O'Brien & Gere performed inspections to evaluate the construction of the storm water drainage facilities in accordance with the Contract Documents.

#### 5.9. Geotextile stabilization fabric

Construction quality control. The IRM Contractor's CQC Manager provided documentation regarding quality control of physical properties of the geotextile stabilization fabric.

The geotextile stabilization fabric conformed to the following minimum average roll values:

**Table 5-8.** CQC of geotextile stabilization fabric prior to construction.

Parameter	Standard	Criteria	
Puncture Strength	ASTM D4833	Minimum 120 lbs	
Mullen Burst Strength	ASTM D3786	Minimum 600 psi	
Trapezoid Tear Strength	ASTM D4533	Minimum 115 lbs	
Grab Tensile Strength	ASTM D4632	Minimum 300 lbs	
Grab Tensile Elongation	ASTM D4632	Minimum 15%	
Wide Width Tensile Strengtl	n ASTM D4595	Minimum 180 lbs MD and XD	
Wide Width Tensile Elongat	ion ASTM D4595	Minimum 10% MD and XD	
UV Resistance	ASTM D4355 (after 150 hours	s) 70% strength retained	
(2) ASTM D4632 (3) ASTM D4533 (4) ASTM D4833 (5) ASTM D3786	Test Method for Grab Breaking Load and Test Methods for Trapezoidal Tearing Stre Test Methods for Index Puncture Resistar Test Method for Hydraulic Bursting Streng	nod for Tensile Properties of Geotextiles by Wide Width Strip Method hod for Grab Breaking Load and Elongation of Geotextiles hods for Trapezoidal Tearing Strength of Geotextiles hods for Index Puncture Resistance of Geotextiles and Geomembranes hod for Hydraulic Bursting Strength of Knitted Goods hod for Deterioration of Geotextiles from UV Exposure and Water (Xenon-Arc)	

The IRM Contractor's CQC Manager provided O'Brien & Gere with a cut sheet for stabilization fabric used. The cut sheet is included in Exhibit D-11.

5. CQA/CQC

Construction quality assurance. O'Brien & Gere reviewed and verified submittal and sample information from the IRM Contractor's CQC Manager. The information was reviewed to determine if the proper information was submitted. O'Brien & Gere returned the submittals to the Contractor. Upon delivery of the rolls of geotextile stabilization fabric, O'Brien & Gere visually inspected the material.

The geotextile stabilization fabric was installed in accordance with the requirements of the Contract Documents and as shown on the Record Drawings, contained in Appendix D.

During the installation phase, the geotextile stabilization fabric was visually inspected for the following:

- Defects
- Rips
- Holes
- Flaws
- Deterioration
- Damage.

O'Brien & Gere performed inspections to evaluate the construction of the access road in accordance with the Contract Documents. As discussed in Section 2.5, the IRM Contractor submitted Technical Variances related to the access roads. The access roads were consistent with the Technical Variances. Technical Variances are included in Exhibit C.

### 5.10. Low permeability material

As part of Modification #1 to the design, the use of low permeability material was added in connection with the construction of clean areas for future installation of 115 kV power line structures and for the replacement of single 34.5 kV power poles.

Prior to installation of the low permeability material, the IRM Contractor's CQC Manager collected samples of the proposed soils and submitted the samples to the CQC Geotechnical Laboratory for testing as follows:

**Table 5-9.** *COC* of low permeability material layer prior to construction.

Parameter	Standards	Minimum Frequency	Criteria	
Particle Size Analysis	ASTM D422	Once per 200 cy of material delivered and/or when material changes	% Passing 100	Sieve 1-inch
Atterberg liquid and plastic limits, plasticity index	ASTM 4318	Once per 200 cy of material delivered and/or when material changes	Monitor soil composition	
Hydraulic conductivity	ASTM D05084	Once per 200 cy of material delivered and/or when material changes	Equal to or less than 1x10 <sup>-6</sup> cm/sec	
Compaction Characteristics	ASTM D698		Develop compaction characteristics	า

Notes:

ASTM D422 ASTM D698 Method for Particulate Size Analysis of Soil Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³) (600kN-m/m³)

One test was performed for the low permeability material prior to delivery to the site. Results of these tests are included in Exhibit D-13.

During installation of the low permeability material, material from the borrow source was tested by the Contractor's CQC Geotechnical Testing Laboratory in accordance with the following:

5. COA/COC

**Table 5-10.** *CQC* of low permeability material layer during construction.

Parameter	Standard	Minimum frequency	Criteria
Particle Size Analysis	ASTM D422	Once per 200 cy of material delivered and/or when material changes were noted	% Passing Sieve 100 1-inch
Liquid Limit, Plastic Lim Plasticity Index	nit, ASTM D 4318	Once per 200 cy of material delivered and/or when material changes were noted	Monitor soil composition
Moisture Content	ASTM D2216	Once per 200 cy of material delivered and/or when material changes were noted	Monitor placement
Soil Moisture Density Relationship	ASTMD698 Method D	Once per 200 cy of material delivered and/or when material changes were noted	Monitor soil composition
Permeability	ASTM D5084-90	Once per 200 cy of material delivered and/or when material changes were noted	Maximum 1.0 x 10 <sup>-6</sup> cm/sec
	Method for Particulate Size Analy Test Method for Liquid Limit, Plas		Soils.

Results of all testing were submitted to O'Brien & Gere for acceptance. Test results are presented in Exhibit D-13.

The IRM Contractor submitted an affidavit from the owner of the source of low permeability material to be imported to the site stating that to the best of his knowledge, the site of the source material was never used as a dump site for chemical, toxic, hazardous or radioactive materials and was not then, or ever had been, listed as a suspected depository for chemical, toxic, hazardous, or radioactive materials by any federal, state, or other governmental agency, department, or bureau. In addition, the IRM Contractor provided analytical results for TCLP testing of the low permeability material that indicated that it was not a characteristic hazardous waste.

Following installation of the low permeability material, material was tested by the Contractor's CQC Geotechnical Testing Laboratory in accordance with the following:

**Table 5-11** *CQC* of low permeability material layer during construction.

Parameter	Standard	Minimum frequency	Criteria
Permeability	ASTM D5084	Minimum 2 tests for the project	Maximum permeability of 1.0 x 10 <sup>6</sup> cm/sec
Undisturbed Shelby Tube Sample	ASTM D1587	Minimum 2 tests for the project	3 inch diameter minimum
In-Place Density	ASTM D1556 or ASTM D2922 or ASTM D2167	Minimum of 4 tests per lift of soil placed	Within the acceptable range determined by testing prior installation
In-Place Moisture Conter	nt ASTM D3017	Minimum of 4 tests per lift of soil placed	Within the acceptable range determined by testing prior installation
Notes:			
	est Method for Density and Unit	Weight of Soil In Place by the S	Sand-Cone Method
ASTM D2922 Te	Test Methods for Density of Soil and Soil-Aggregate In Place by Nuclear Methods (Shallow		
Depth)	1 1 T 1 M 11 11 D 11		
ASTM D2167 St Method	Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon		
	est Method for Water Content of	Soil and Rock in Place by Nucl	ear methods (Shallow Depth)

Results for two tests were provided to O'Brien & Gere. A copy of this documentation is included in Exhibit D-13.

#### 5.11. Electrical/materials/equipment

*Construction quality control.* The electrical subcontractor performed the electrical work in accordance with the applicable electrical codes and standards. One deviation was noted, related to backfill around conduits.

The electrical subcontractor submitted shop drawings and samples to O'Brien & Gere. The electrical subcontractor also prepared, for final submission the following items:

- Updated as-built shop drawings and plans
- Wiring diagrams with updated field directed changes.

These are included in Exhibit D-14.

Construction quality assurance. CQA consisted of O'Brien & Gere evaluating the electrical work and submittals for compliance with the Record Drawings, contained in Appendix D.

## 6. Inspections

A final inspection of the Former Landfill IRM was conducted on December 15, 2004. Representatives of NYSDEC, O'Brien & Gere, and the IRM Contractor were present. No significant deficiencies or punch list items regarding the Former Landfill IRM were noted during the final inspection, therefore NYSDEC considered the Former Landfill IRM complete.

#### 7. Institutional controls

The Former IFG Facility Site is currently located in the Town of Salina in an industrial zone (I-1 District), which allows for industrial use such as heavy manufacturing. The scope of the remediation conducted in this area of the Site will allow for both future industrial and commercial use.

As the last component of the Former Landfill IRM, a deed restriction should be recorded that limits the future use of this IRM-remediated area of the Site to commercial and industrial use (the "Use Restriction") and imposes such other post-remediation operation, maintenance and monitoring (OM&M) restrictions that are necessary to protect human health and the environment, including but not limited to, a restriction on the use of Site ground water without the prior written consent of GM and NYSDEC.

There would also be an easement conveyed to NYSDEC (and reserved to GM in the event of a future transfer of the Site) that would allow access to confirm that all OM&M restrictions are being observed, including the Use Restriction.

The deed restriction and easement would be recorded following NYSDEC's issuance of a final Record of Decision for the Site.

## 8. Record drawings/as-builts

Following completion of the construction, Record Drawings and asbuilts were compiled. The Record Drawings show the areas where hot spots were excavated, where the low permeability cover system was installed, and miscellaneous details. The as-builts show the final grading plan for the vegetative cover system and the details of the work completed on-site. The Record Drawings are presented in Appendix D and the as-builts are provided in Exhibit E.

# 9. Summary of project costs

The estimated capital cost to complete the project was approximately \$2.5 Million. The final construction and engineering cost was approximately \$3.6 Million. Annual OM&M costs for the Former Landfill IRM cover system are estimated at \$23,000.

### 10. Observations and lessons learned

During implementation of the Former Landfill IRM, observations were made and the following lessons were learned:

- Pre-characterization and up-front regulatory agreement on hot-spot extent (and subsequent omission of confirmatory sampling) for certain hot spots significantly improved on the time needed to perform hot spot excavations.
- More frequent surveying would have helped to provide more comprehensive records related to material volumes.
- Substantial site-wide cost savings were realized through the
  concurrent scheduling of the SPDES Treatment System IRM and the
  Former Drainage Swale IRM, since following regulatory approval,
  spoils from these other IRMs were used during construction of the
  Former Landfill IRM. This resulted in decreased overall off-site
  disposal costs as well as decreased costs associated with importation
  of grading material.

## 11. Remedial action contact information

The Project Manager for GM was:

James F. Hartnett Remediation Project Office One General Motors Drive STE2 Syracuse, NY 13206-1127 Phone: 315-463-2391

The Project Manager for the Design Engineering firm and Construction Observation firm was:

Douglas M. Crawford, P.E. O'Brien and Gere Engineers Inc. 5000 Brittonfield Parkway P.O. Box 4873 Syracuse, NY 13221 Phone: 315-437-6100

The Project Manager for the IRM Contractor used by GM was:

David Woodruff Royal Environmental, Inc. P.O. Box 15719 Rochester, NY 14615 Phone: 585-254-1840

The NYSDEC Project Manager was:

Susan L. Edwards, P.E. NYSDEC Project Manager NYS Department of Environmental Conservation 625 Broadway, 12th Floor Albany, New York 12233-7016 Phone: 518-402-9767

The USEPA Project Manager was:

Robert Nunes Onondaga Lake Project Manager U.S. Environmental Protection Agency, Region II 290 Broadway, 20th Floor New York, New York 10007-1866 Phone: 212-637-4254 The liner installer used by the IRM Contractor was:

New England Liner Systems Inc. 35 Wooster Court Bristol, CT 06010

The CQC Geosynthetic Laboratory used by the IRM Contractor was:

Gary Torosian GeoTesting Express, Inc. 1145 Massachusetts Avenue Boxborough, MA 01719

The third party CQA/CQC inspector used by the IRM Contractor was:

Atlantic Testing 5866 State Route 31 Cicero, NY 13039

The surveyor used by the IRM Contractor was:

C. T. Male Associates, P.C. 200 Gateway Park Drive, Bldg. C P.O. Box 3246 North Syracuse, NY 13212-3246

## 12. Operation, maintenance and monitoring

An OM&M Manual has been developed for the Former Landfill IRM under separate cover. The OM&M Manual addresses post-IRM site monitoring and maintenance activities for the following IRM components:

- Low permeability cover system
- Vegetative cover
- Storm water conveyance system
- Utilities (buried and overhead)
- Ground water monitoring wells.

In addition, the OM&M Manual provides the following:

- A monitoring plan
- Record keeping and reporting requirements
- Health and safety requirements
- Institutional restrictions.

# 13. Certification

Based on field observations made during the implementation of the NYSDEC-approved Former Landfill IRM Revised Work Plan, O'Brien & Gere hereby certifies, as required by the Order on Consent (Site No. 7-34-057), that construction of the IRM was completed in accordance with the NYSDEC-approved Former Landfill IRM Revised Work Plan with exceptions as discussed in this Engineering Report.



By: No ester M. Crawford, P.E.

Date: 11/1/06

Vice President

O'Brien & Gere Engineers, Inc.

### References

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- Benjamin, Susan, P.E. (NYSDEC). 2001b. Letter to Jim Hartnett (GM) regarding acceptance of overall Former Landfill IRM scope and concept. August 13, 2001.
- Benjamin, Susan, P.E. (NYSDEC). 2002. Letter to Jim Hartnett (GM) regarding acceptance of request for approval of Former Landfill IRM pre-design work plans. March 18, 2002.
- Benjamin, Susan, P.E (NYSDEC). 2003a. Letter to Jim Hartnett (GM) regarding approval of soil characterization around the Niagara Mohawk H-structures. June 6, 2003.
- Benjamin, Susan, P.E (NYSDEC). 2003b. Letter to Jim Hartnett (GM) regarding approval of soil characterization around Niagara Mohawk H-Structures (addendum) and pipe abandonment. July 14, 2003.
- Benjamin, Susan, P.E (NYSDEC). 2003c. Letter to Jim Hartnett (GM) regarding approval of Former Landfill IRM approach. October 1, 2003.
- Benjamin, Susan, P.E (NYSDEC). 2003d. Letter to Jim Hartnett (GM) regarding approval of Former Landfill IRM proposed hot spot removal on Niagara Mohawk Property. September 4, 2003.
- Benjamin, Susan, P.E (NYSDEC). 2003e. Letter to Jim Hartnett (GM) regarding approval of Technical Variance #1, dated September 12, 2003.
- Benjamin, Susan, P.E (NYSDEC). 2003f. Letter to Jim Hartnett (GM) regarding approval of Design Modification #1, dated May 20, 2003.
- Benjamin, Susan, P.E (NYSDEC). 2003g. E-mail to Brad Kubiak (OBG) regarding asphalt testing, dated November 25, 2003.

- Benjamin, Susan, P.E. (NYSDEC). 2004. Letter to Jim Hartnett (GM) regarding approval of Technical Variance #5 (seed mixture variance). December 22, 2004
- Hartnett, James F. (GM). 1996. Letter to Susan Benjamin, P.E. (NYSDEC). November 6, 1996.
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- Hartnett, James F. (GM). 2000. Letter to Mike Cruden, P.E. (NYSDEC) dated February 17, 2001.
- Hartnett, James F. (GM). 2001a. Letter to Susan Benjamin, P.E. (NYSDEC) regarding proposed Former Landfill IRM. May 23, 2001.
- Hartnett, James F. (GM). 2001b. Letter to Susan Benjamin, P.E. (NYSDEC) dated June 14, 2001.
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- Hartnett, James F. (GM). 2003d. Letter to Susan Benjamin, P.E. (NYSDEC) dated August 26, 2003 (Proposed Hot Spot Removal on Niagara Mohawk Property)

References

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- USDA Soil Conservation Service. 1997. *Guidelines for Erosion and Sediment Control in Urban Area.* April 1997.
- USEPA. 1988. Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA. Interim Final. Washington, D.C. October 1988.

Table 1. Hot spot confirmatory sample results

			PCB Screening	Sample	Result	Data
Sample ID	Rationale	Location	Level	Date	PCBs mg/kg	Validation Qualifier
T4-1-1N	T4-1 Hot Spot	On-site	(mg/kg) 50	8/8/2002	4.6	J
T4-1-1N	T4-1 Hot Spot	On-site	50	8/8/2002	19	J
T4-1-3S	T4-1 Hot Spot	On-site	50	8/8/2002	11	J
T4-1-4W	T4-1 Hot Spot	On-site	50	8/8/2002	120	Ů
T4-1-5F	T4-1 Hot Spot	On-site	50	8/8/2002	2.6	J
TB-51-1N	OBG-TB-51(0-2) Hot Spot	On-site	50	8/8/2002	1.6	J
TB-51-2E	OBG-TB-51(2-4) Hot Spot	On-site	50	8/8/2002	2.6	J
TB-51-3S	OBG-TB-51(4-6) Hot Spot	On-site	50	8/8/2002	0.27	J
TB-51-4W	OBG-TB-51(6-8) Hot Spot	On-site	50	8/8/2002	1.8 *	
TB-51-5F	OBG-TB-51(6-8) Hot Spot	On-site	50	8/8/2002	74	
SS-08-1N	SS-99-08 Hot Spot	On-site	50	8/8/2002	130	
SS-08-2E	SS-99-08 Hot Spot	On-site	50	8/8/2002	76	
SS-08-3S	SS-99-08 Hot Spot	On-site	50	8/8/2002	37	J
SS-08-4W	SS-99-08 Hot Spot	On-site	50	8/8/2002	18	J
SS-08-5F	SS-99-08 Hot Spot	On-site	50	8/8/2002	110	
TB-53-1N	TB-53 Hot Spot	On-site	50	8/8/2002	400	
TB-53-2E	TB-53 Hot Spot	On-site	50	8/8/2002	360	
TB-53-3S	TB-53 Hot Spot	On-site	50	8/8/2002	1100	
TB-53-4W	TB-53 Hot Spot	On-site	50	8/8/2002	410	
TB-53-5F	TB-53 Hot Spot	On-site	50	8/8/2002	180	J
SS-06-1N	SS-99-06 Hot Spot	On-site	50	8/8/2002	98	
SS-06-2E	SS-99-06 Hot Spot	On-site	50	8/8/2002	17	J
SS-06-3S	SS-99-06 Hot Spot	On-site	50	8/8/2002	23	J
SS-06-4W	SS-99-06 Hot Spot	On-site	50	8/8/2002	210	
SS-06-5F	SS-99-06 Hot Spot	On-site	50	8/8/2002	0.41	
NW-DP2-N1	NW Debris Pile	On-site	50	8/5/2002	14	J
NW-DP2-N2	NW Debris Pile	On-site	50	8/5/2002	11	J
NW-DP2-E1	NW Debris Pile	On-site	50	8/5/2002	30	J
NW-DP2-E2	NW Debris Pile	On-site	50	8/5/2002	3.2	J
NW-DP2-S	NW Debris Pile	On-site	50	8/5/2002	2.9	J
NW-DP2-W	NW Debris Pile	On-site	50	8/5/2002	7.4	J
NW-DP2-B1	NW Debris Pile	On-site	50	8/5/2002	21	J
NW-DP2-B2	NW Debris Pile	On-site	50	8/5/2002	3.1	J
T4-1-4W-2	T4-1 Hot Spot	On-site	50	10/10/2002	0.32	J
TB-51-5F-2	OBG-TB-51(0-2) Hot Spot	On-site	50	10/10/2002	2.9*	
SS-08-1N-2	SS-99-08 Hot Spot	On-site	50	10/10/2002	210	
SS-08-2E-2	SS-99-08 Hot Spot	On-site	50	10/10/2002	34	J
SS-08-5F-2	SS-99-08 Hot Spot	On-site	50	10/10/2002	0.17	J
TB-53-1N-2	TB-53 Hot Spot	On-site	50	10/10/2002	3.7	
TB-53-2E-2	TB-53 Hot Spot	On-site	50	10/10/2002	73	J
TB-53-3S-2	TB-53 Hot Spot	On-site	50	10/10/2002	97	
TB-53-4W-2	TB-53 Hot Spot	On-site	50	10/10/2002	180	J
TB-53-5F-2	TB-53 Hot Spot	On-site	50	10/10/2002	13	J
SS-06-1N-2	SS-99-06 Hot Spot	On-site	50	10/10/2002	12	
SS-06-4W-2	SS-99-06 Hot Spot	On-site	50	10/10/2002	2.9	
SS08-1N-3	SS-99-08 Hot Spot	On-site	50	11/5/2002	120	
TB-53-3S-3	TB-53 Hot Spot	On-site	50	11/5/2002	7	
TB-53-2E-3	TB-53 Hot Spot	On-site	50	11/5/2002	<0.59	
SS-08-1N-4	SS-99-08 Hot Spot	On-site	50	12/18/2002	56	J
SS-08-1N-5	SS-99-08 Hot Spot	On-site	50	4/30/2003	55	J
SS-08-1N-6	SS-99-08 Hot Spot	On-site	50	7/11/2003	0.37	J
TB-11-W1	TB-11-03A Hot Spot	On-site	50	9/25/2003	16	J
TB-11-FD	TB-11-03A Hot Spot	On-site	50	9/25/2003	11	J
TB-11-F1	TB-11-03A Hot Spot	On-site	50	9/25/2003	24	J
TB-11-N1	TB-11-03A Hot Spot	On-site	50	9/25/2003	1700	J
TB-11-E1	TB-11-03A Hot Spot	On-site	50	9/25/2003	16	J
TB-11-S1	TB-11-03A Hot Spot	On-site	50	9/25/2003	<.72	UJ
4+40-F	4+05 - 6+20 Hot Spot	Factory Avenue	10	9/30/2003	14	J
4+90-F	4+05 - 6+20 Hot Spot	Factory Avenue	10	9/30/2003	200	J
5+40-F	4+05 - 6+20 Hot Spot	Factory Avenue	10	9/30/2003	96	J
5+90-F	4+05 - 6+20 Hot Spot	Factory Avenue	10	9/30/2003	830	J
4+40-N	4+05 - 6+20 Hot Spot	Factory Avenue	10	9/30/2003	0.13	J
4+90-N	4+05 - 6+20 Hot Spot	Factory Avenue	10	9/30/2003	40	J
5+40-N	4+05 - 6+20 Hot Spot	Factory Avenue	10	9/30/2003	23	J
5+90-N	4+05 - 6+20 Hot Spot	Factory Avenue	10	9/30/2003	23	J
5+85 N-A	4+05 - 6+20 Hot Spot	Factory Avenue	10	10/9/2003	170	
5+85 N-B	4+05 - 6+20 Hot Spot	Factory Avenue	10	10/9/2003	14	NJ
5+85 N-C	4+05 - 6+20 Hot Spot	Factory Avenue Factory Avenue	10	10/9/2003	5400** 16 **	J
F . OF F			10	10/9/2003	76 **	II.
5+85 F	4+05 - 6+20 Hot Spot					
5+85 F 5+40 N-B 5+40 N-C	4+05 - 6+20 Hot Spot 4+05 - 6+20 Hot Spot 4+05 - 6+20 Hot Spot	Factory Avenue Factory Avenue Factory Avenue	10 10	10/9/2003 10/9/2003	7.3 5600	NJ

Table 1. Hot spot confirmatory sample results

			PCB Screening	Sample	Result	Data
Sample ID	Rationale	Location	Level	Date	PCBs	Validation
			(mg/kg)		mg/kg	Qualifier
4+85 N-B	4+05 - 6+20 Hot Spot	Factory Avenue	10	10/9/2003	0.7	J
4+85 N-C	4+05 - 6+20 Hot Spot	Factory Avenue	10	10/9/2003	18000	J
4+85-F	4+05 - 6+20 Hot Spot			10/9/2003	18	
4+40 N-B	4+05 - 6+20 Hot Spot	Factory Avenue	10	10/9/2003	48	J
4+40 N-C	4+05 - 6+20 Hot Spot	Factory Avenue	10	10/9/2003	6700	NJ
4+40 F	4+05 - 6+20 Hot Spot	Factory Avenue	10	10/9/2003	1.0	
NIMO 1+74		Nimo access road	50	10/13/2003	0.11	J
NIMO 2+88		Nimo access road Nimo access road	50	10/13/2003	0.093	J
NIMO 4+85			50	10/13/2003	52	J
NIMO DITCH MH	CC 02 05 Hot Coot	Nimo access road	50	10/13/2003	<0.67	UJ
SS-02-05-F SS-02-05-N	SS-02-05 Hot Spot SS-02-05 Hot Spot	Nimo access road Nimo access road	50 50	10/14/2003 10/14/2003	160 190	NJ NJ
SS-02-05-N SS-02-05-E	SS-02-05 Hot Spot	Nimo access road	50	10/14/2003	190	J
SS-02-05-E SS-02-05-S	SS-02-05 Hot Spot	Nimo access road	50	10/14/2003	200	J
SS-02-05-W	SS-02-05 Hot Spot	Nimo access road	50	10/14/2003	180	NJ
TB-53-W	SS-02-05 Hot Spot	Nimo access road	50	10/14/2003	19	J
5+90-F	4+05 - 6+20 Hot Spot	Factory Avenue	10	10/14/2003	<0.61	J
5+40-F	4+05 - 6+20 Hot Spot	Factory Avenue	10	10/14/2003	<0.60	
4+40-F	4+05 - 6+20 Hot Spot	Factory Avenue	10	10/14/2003	<0.62	
4+40-F 4+85-F	4+05 - 6+20 Hot Spot	Factory Avenue	10	10/14/2003	<0.62	
6+30-Top	6+30 Hot Spot	Nimo access road	50	10/17/2003	12	J
6+30-10p	6+30 Hot Spot	Nimo access road	50	10/17/2003	15	J
6+10-Top	Ni Mo Swale	Nimo access road	50	10/17/2003	47	J
6+10-Bank	Ni Mo Swale	Nimo access road	50	10/17/2003	270	J
5+70	5+70 Hot Spot	Nimo access road	50	10/17/2003	26	J
SS-02-05-S2	SS-02-05 Hot Spot	Nimo access road	50	10/22/2003	42	J
SS-02-05-F2	SS-02-05 Hot Spot	Nimo access road	50	10/22/2003	75	J
SS-02-05-W2	SS-02-05 Hot Spot	Nimo access road	50	10/22/2003	84	J
SS-02-05-N2	SS-02-05 Hot Spot	Nimo access road	50	10/22/2003	0.28	J
6+15	6+15 Hot Spot	Nimo access road	50	10/22/2003	9.1	J
4+85-F	4+85 Hot Spot	Nimo access road	50	10/23/2003	35	
4+85-N	4+85 Hot Spot	Nimo access road	50	10/23/2003	32	
4+85-E	4+85 Hot Spot	Nimo access road	50	10/23/2003	79	J
4+85-S	4+85 Hot Spot	Nimo access road	50	10/23/2003	27	
4+85-W	4+85 Hot Spot	Nimo access road	50	10/23/2003	55	
3+00	Informational	Factory Avenue	10	11/3/2003	0.48	J
2+00	Informational	Factory Avenue	10	11/3/2003	0.28	J
SS-02-05-F3	SS-02-05 Hot Spot	Nimo access road	50	11/5/2003	14	J
SS-02-05-W3	SS-02-05 Hot Spot	Nimo access road	50	11/5/2003	39	J
4+85-E2	4+85 Hot Spot	Nimo access road	50	11/5/2003	58	J
4+85-W2	4+85 Hot Spot	Nimo access road	50	11/5/2003	20	J
1+12-N.wall	Informational	Factory Avenue	10	11/10/2003	< 0.68	
0+25-N.wall	Informational	Factory Avenue	10	11/10/2003	1.8 **	
4+85-E3	4+85 Hot Spot	Nimo access road	50	11/13/2003	2.7	J
6+52-NW	Informational	Drainage swale	10	8/17/2004	10	
7+52-NW	Informational	Drainage swale	10	8/18/2004	11	
SS-02-05-W3	SS-02-05 Hot Spot	Nimo access road	50	10/7/2004	17	J
6+10-Bank-N	Ni Mo Swale	Nimo access road	50	10/7/2004	1300	J
6+10-Bank-S	Ni Mo Swale	Nimo access road	50	10/7/2004	190	J
6+10-Bank-W	Ni Mo Swale	Nimo access road	50	10/7/2004	620	J
6+10-Bank-E	Ni Mo Swale	Nimo access road	50	10/7/2004	160	J
6+10-Bank-F	Ni Mo Swale	Nimo access road	50	10/7/2004	2700	J
SM101-N	Ni Mo Swale	Nimo access road	50	10/7/2004	0.08	J
SM101-S	Ni Mo Swale	Nimo access road	50	10/7/2004	15	J
SM101-W	Ni Mo Swale	Nimo access road	50	10/7/2004	0.10	J
SM101-E	Ni Mo Swale	Nimo access road	50	10/7/2004	180	J
SM101-F	Ni Mo Swale	Nimo access road	50	10/7/2004	73	J
SM101-F2	Ni Mo Swale	Nimo access road	50	10/12/2004	0.17	
SM101-E2	Ni Mo Swale	Nimo access road	50	10/12/2004	2.1	
6+10 Bank-F2	Ni Mo Swale	Nimo access road	50	10/12/2004	67	
6+10 Bank-W2	Ni Mo Swale	Nimo access road	50	10/12/2004	0.2	1
6+10 Bank-S2	Ni Mo Swale	Nimo access road	50	10/12/2004	<0.65	ļ
6+10 Bank -F3	Ni Mo Swale	Nimo access road	50	10/14/2004	<0.68	ļ
6+10 Bank -S3	Ni Mo Swale	Nimo access road	50	10/14/2004	<0.51	<u> </u>
TB-02-03A (10'-16')	Hot Spot/Informational	On site	NA	11/10/2004	120	

#### NOTES:

Samples represent a grab sample.

Informational sample denotes sample collected where hot spot removal was prevented due to the presence of an underground utility.

NYSDEC TAGM 4046 used as PCB screening level

Shading indicates detected concentration is above the associated PCB screening level.

Detected Aroclors are Aroclor 1248, unless otherwise noted.

- \* The northern wall was excavated an additional 2 ft until the excavation reached the clean area, which was previously excavated and backfilled with clean material.

  Therefore, an additional confirmatory result was not collected.
- \*\* Aroclor 1242 reported

Sample TB-02-03A (10-16) sample was collected from the material to be disposed off-site.

- F- Indicates a floor sample in the sample ID
- N Indicates the northern wall and the A,B, and C indicate from top to bottom separate layers of material in the sample ID
- NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- J DUSR qualifier indicating estimated value.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not

 Table 1. Hot spot confirmatory sample results

			PCB Screening	Sample	Result	Data
Sample ID	Rationale	Location	Level	Date	PCBs	Validation
·			(mg/kg)		mg/kg	Qualifier

represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

 Table 2. Soil originating from the Former Drainage Swale IRM used during construction of the Former Landfill IRM

Soil pile (sample ID)	Origin	Exceeds TAGM? * (yes/ no)	Intended reuse/	Notice - Date	Final disposition
			disposition	approved for reuse on-site	
OB-6	Swale Overburden	Surface PCBs: Yes Subsurface PCBs: Yes VOCs: No SVOCs: No Site Metals: Yes	Landfill subsurface fill	Notice: 9/19/02  Approval: 9/30/02	Landfill subsurface fill
OB-8	Swale Overburden	Surface PCBs: Yes Subsurface PCBs: Yes VOCs: No SVOCs: No Site Metals: Yes	Landfill subsurface fill	Notice: 9/19/02 Approval: 9/30/02	Landfill subsurface fill
ОВ-11	Swale Overburden	Surface PCBs: Yes Subsurface PCBs: Yes VOCs: No SVOCs: No Site Metals: Yes	Landfill subsurface fill	Notice:10/02/ 02 Approval: 10/03/02	Landfill subsurface fill
ОВ-12	Swale Overburden	Surface PCBs: Yes Subsurface PCBs: No VOCs: No SVOCs: No Site Metals: Yes	Landfill Subsurface fill	Notice:10/02/ 02 Approval: 10/03/02	Landfill Subsurface fill
ОВ-14	Swale Overburden	Surface PCBs: Yes Subsurface PCBs: No VOCs: No SVOCs: No Site Metals: Yes	Subsurface fill	Notice: 10/22/02 Approval: 10/29/02	Former Drainage swale subsurface fill
OB-17	Swale Overburden	Surface PCBs: Yes Subsurface PCBs: Yes VOCs: No SVOCs: No Site Metals: Yes	Landfill subsurface fill	Notice: 10/22/02 Approval: 10/29/02	Landfill subsurface fill

**Table 2.** Soil originating from the Former Drainage Swale IRM used during construction of the Former Landfill IRM

Soil pile (sample ID)	Origin	Exceeds TAGM? * (yes/ no)	Intended reuse/ disposition	Notice - Date approved for reuse on-site	Final disposition
OB-20	Swale Overburden	Surface PCBs: Yes Subsurface PCBs: Yes VOCs: No SVOCs: Yes Site Metals: Yes	Landfill subsurface fill	Notice:12/04/ 02 Approval: 12/06/02	Landfill subsurface fill
OB-21	Swale Overburden	Surface PCBs: Yes Subsurface PCBs: Yes VOCs: Yes SVOCs: No Site Metals: Yes	Landfill subsurface fill	Notice:12/09/ 04 Approval:	Landfill subsurface fill
OB-22	Swale Overburden	Surface PCBs: Yes (TSCA) Subsurface PCBs: Yes VOCs: No SVOCs: No Site Metals: Yes	Off-site disposal and Landfill subsurface fill	Notice:12/09/ 04 Approval:	Landfill subsurface fill/Off-site disposal (see note 1 below)
COB-1	Swale Overburden (off-site on Onondaga County Property near Former Landfill IRM hot spot 4+05 -6+20)	Surface PCBs: Yes Subsurface PCBs: Yes	Landfill subsurface fill	Notice: 2/11/05 Approval: 3/7/05	Landfill subsurface fill
СОВ-8	Swale Overburden (off-site on Onondaga County Property)	Surface PCBs: Yes Subsurface PCBs: Yes	Landfill subsurface fill	Notice: 2/11/05 Approval: 3/7/05	Landfill subsurface fill
СОВ-9	Swale Overburden (off-site on Onondaga County Property)	PCBs: Yes (TSCA) SVOCs: Yes Site Metals: Yes	Off-site disposal	Notice: 2/11/05 Approval: 3/7/05	Off-site disposal

Table 2. Soil originating from the Former Drainage Swale IRM used during construction of the Former Landfill IRM

Soil pile (sample ID)	Origin	Exceeds TAGM? * (yes/ no)	Intended reuse/ disposition	Notice - Date approved for reuse on-site	Final disposition
COB-10	Swale Overburden (off-site on Onondaga County Property)	PCBs: Yes (TSCA)	Landfill subsurface fill	Notice: 2/11/05  Approval: 3/7/05	Landfill subsurface fill/Off-site disposal (see note 2 below)
COB-11	Swale Overburden (off-site on Onondaga County Property)	Surface PCBs: Yes Subsurface PCBs: Yes	Landfill subsurface fill	Notice: 2/11/05 Approval: 3/7/05	Landfill subsurface fill

#### Notes:

- \* TAGM 4046 screening value for chromium is 10 ppm, however, based on communications with NYSDEC, the proposed screening value for chromium (50 ppm) was used.
- 1) OB-22 sample result was 75 mg/kg. OB-22 soil pile was resampled by breaking it out into 8 sections. Sections containing PCB concentrations greater than or equal to 50 mg/kg were disposed of off-site. Sections containing PCB concentrations less than 50 mg/kg were consolidated within the former landfill limits underneath the low permeability cover system.
- 2) Soil pile COB-10 was broken down into 2 sections for further delineation. Based on sample results, the pile (200 cy) with a PCB concentration less than 50 mg/kg is proposed to be used as subsurface fill within the GM landfill cap limits. The pile (150 cy) with a PCB concentration greater than 50 mg/kg is proposed to be appropriately disposed of off-site.

Final: 11/1/2006

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Table 3. Soil and material originating from the SPDES Treatment System IRM used in construction of Former Landfill IRM

Grid ID	Origin	Characterization	Intended reuse/disposition	Notice Date approved for reuse on-site	Final Disposition
TB-02-09	TB-02-09 Grid interval 10 – 12 ft	Special Restricted Use (SVOCs high)	Subsurface material under landfill cover		Subsurface material under landfill cover
TB-02-13	TB-02-13 Grid interval 0 – 4 ft	Special Restricted use (PCBs > 10 ppm)	Subsurface material under landfill cover		Subsurface material under landfill cover
Aban. Pipe Bed to A1A	Pipe bedding material from abandoned pipe to A1A	Debris	Subsurface material under landfill cover	Notice: 10/22/02 Approval: 10/29/02	Subsurface material under landfill cover
Pipe Sludge/RCP	Pipe sludge and RCP from piping near Impoundment # 2	Debris	Subsurface material under landfill cover	Notice: 12/04/02 Approval: 12/06/02	Subsurface material under landfill cover
IAPB	Pipe bedding material from impoundment area towards Outfall 003	Debris	Subsurface material under landfill cover	Notice: 12/04/02 Approval: 12/06/02	Subsurface material under landfill cover

<sup>\*</sup> Special restricted use refers to soil that will be utilized as subsurface fill at the former landfill underneath the low permeability cover system.

**Table 4.** Soil and material originating from Redevelopment Activities used during construction of the Former Landfill IRM.

Soil pile (sample ID)	Description	Origin	Exceeds TAGM? * (yes/ no)	Intended reuse/ disposition	Notice - Date approved for reuse on-site	Final disposition
Pile near New Venture Gear (NW Concrete-4, NW Pile-3)	Concrete/soil/ston e debris	Debris pile on the parking lot west of New Venture Gear	No	On-site reuse as fill	Notice: 6/8/00 Approval: 7/3/00	Landfill
Concrete Debris pile on parking lot north of NVG (NW Concrete 1)	Concrete	Debris along north of parking lot located north of New Venture Gear	Yes Hg 0.3 ppm	On-site reuse as fill. To be managed with landfill as part of Landfill IRM	Notice: 7/26/00 Approval: 8/2/00	Landfill
Piles on landfill	Soil/Concrete	Unknown origin	Yes	To be managed with landfill as part of Landfill IRM		Landfill
Mounded area east of the Mold Storage building (site of soil borings TB-1-01 and TB-2-01).	Soil	In place	Yes Arsenic, nickel, zinc, benzo(a)pyrene	On-site reuse as fill	Notice: 8/16/02 Approval: 9/9/02	Some used as subsurface fill for swale removal.  Some used as fill in landfill.  Some used as subsurface fill around the SPDES  Treatment Building
(WJW Soil)	Soil	Soil generated from the excavation of soil directly outside the eastern fence of the transformer yard,west of the Mnfctr. Bldg. and Western Courtyard.	Yes Arsenic – 46 ppm Nickel – 21 ppm Zinc – 110 ppm	Reuse as subsurface fill	Notice: 5/16/03 Approval: 6/3/03	Used as fill beneath landfill cover.
Sediment collected from various redevelopment activities (Vac-truck sediment-2)	Soil	Sediment/soil/debris collected during various redevelopment activities	Yes SVOCs	To be placed beneath the low perm landfill cover	Notice: 10/14/03 Approval: 10/14/03	Used as fill beneath landfill cover.
(H-9 Sump Concrete)	Concrete	Concrete generated during installation of 3'x3'x10'' sump in Syracuse Glass tenant space	Yes PCB – 11 ppm	To be placed beneath the low perm landfill cover	Notice: 10/14/03 Approval: 10/14/03	Used as fill beneath landfill cover.
(K7-Sump)	Soil/Concrete	Debris generated from a sump installation in the Syacuse Glass Tenant space.	No	To be used as subsurface fill.	Notice: 2/20/04 Approval: 3/9/04	Used as fill beneath landfill cover.
(Fralo Top Soil – 5/11/04)	Soil	Soil generated during grading activities associated with preparation of the Fralo outdoor storage area.	Yes Nickel – 24 ppm Zinc – 66 ppm	To be used as on- site subsurface fill	Notice: 6/11/04 Approval: 6/22/04 Verbal approval from Benjamin for use as off-site fill. 8/5/04.	Some used as topsoil on north slope of landfill
(SPDES Waste Tank Sludge – 5/19/04)	Sediment	Sediment material from SPDES Treatment System backwash waste tank.	Yes PCBs – 2.2 ppm	Place beneath landfill cover	Notice: 6/11/04 Approval: 6/22/04	Used as fill beneath landfill cover.
(Mold Storage South Soil – 5/21/04)	Soil	Soil generated from installation of access door on the south end of the Mold Storage Building.	Yes Nickel – 14 ppm Zinc - 34 ppm	To be used on-site as unrestricted subsurface fill.	Notice: 6/18/04 Approval: 6/22/04 Verbal approval from Benjamin for	Used as off-site fill in Factory Ave. ditch.

**Table 4.** Soil and material originating from Redevelopment Activities used during construction of the Former Landfill IRM.

Soil pile (sample ID)	Description	Origin	Exceeds TAGM? *	Intended reuse/	Notice - Date approved for	Final disposition
(sample 12)			(yes/no)	disposition	reuse on-site	
					use as off-site fill. 8/5/04.	
(Diemolding Tech Dock Soil – 5/26/04)	Soil	Soil generated from installation of truck docks associated with the Diemolding tenant space.	Yes PCBs – 1.8 ppm	Place beneath landfill cover	Notice: 6/18/04 Approval: 6/22/04	Used as fill beneath landfill cover.
(West Courtyard #2 – 5/28/04)	Soil	Soil generated from cleaning/grading activities in the western courtyard.	Yes  Arsenic–7.6 ppm  Nickel – 24 ppm  Zinc – 54 ppm	To be used on-site as subsurface fill	Notice: 6/11/04 Approval: 6/22/04 Notice_rev1: 9/01/04 Approval:9/7/04	Used as off-site fill in Factory Ave. ditch.
(Fralo Floor Resurfacing)	Concrete dust/debris	Concrete dust generated from floor resurfacing	Yes PCBs – 27 ppm	Place beneath landfill cover	Notice: 7/19/04 Approval: 7/28/04	Used as fill beneath landfill cover.
(Western Courtyard Concrete – 6/15/04)	Concrete	Concrete generated from the western courtyard cleanup	Yes PCBs – 1.2 ppm	Place beneath landfill cover		Used as fill beneath landfill cover.
Roof Ballast (H3-RB, K23 Roof, Syr. Glass Roof)	Roof ballast material	Roof ballast material removed from the roof of the Fralo and Syr. Glass tenant spaces to perform roof repairs.	No	To be used on-site as subsurface fill.	Notice: 9/21/04 Approval: 9/28/04	
Admin building sidewalk soil	Soil	Soil removed during grading activitities around the Admin building/removal of sidewalks	Not sampled	Verbal proposal to place beneath landfill cover based on SRI data showed SVOCs > TAGM.	No notice submitted per Benjamin. 9/29/04.	Used as fill beneath landfill cover.

#### Notes:

<sup>\*</sup> Soil/debris to be used as subsurface fill, therefore, TAGM 4046 screening level of 10 ppm for PCBs was used.

<sup>\*\*</sup> TAGM 4046 screening value for chromium is 10 ppm, however, based on communications with NYSDEC, the proposed screening value for chromium (50 ppm) was used.

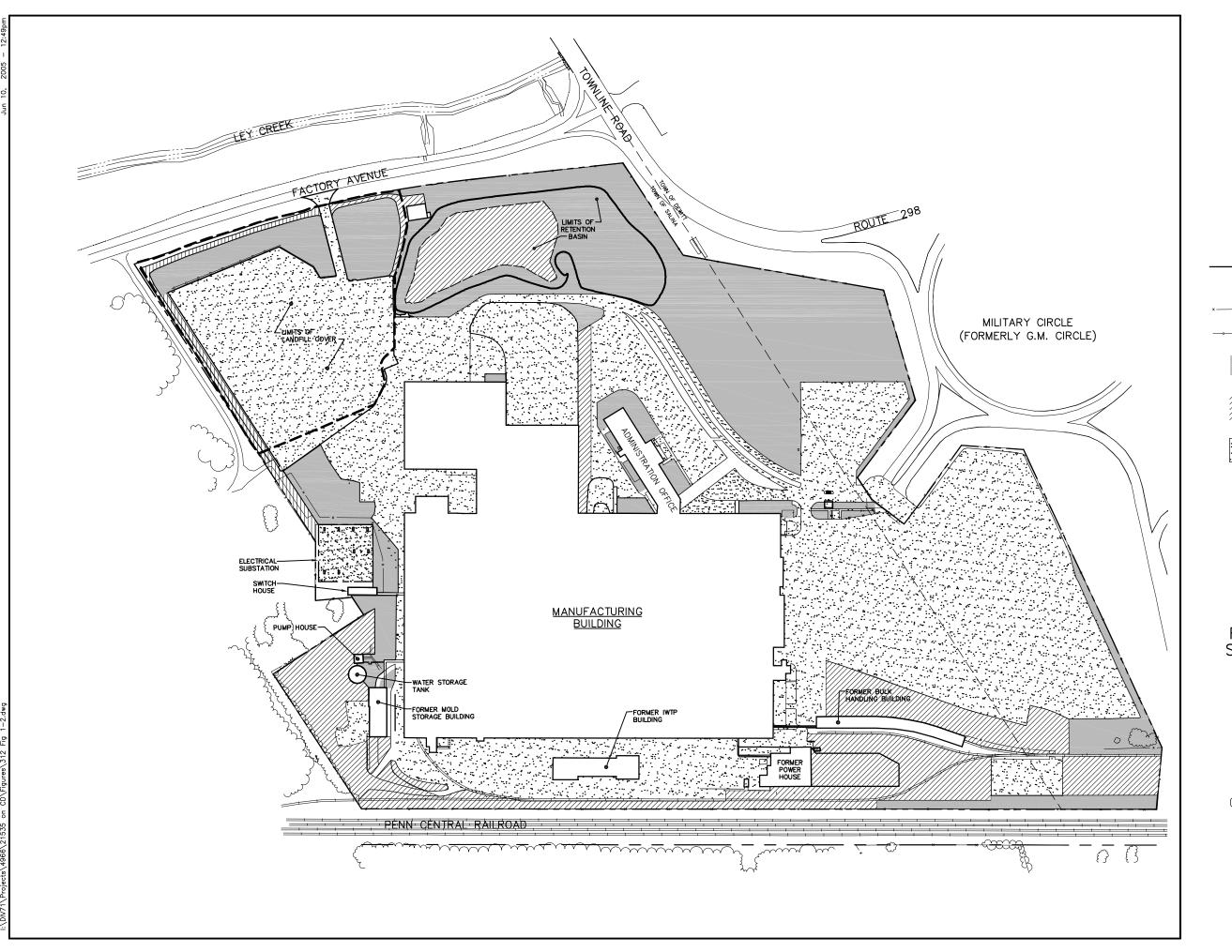


FIGURE 1-2



# **LEGEND**

PROPERTY LINE
TREE LINE

----× -----× FENCE

→ GUARDRAIL

VEGETATION

'///// CRUSHED STONE

ASPHALT

GENERAL MOTORS FORMER IFG FACILITY SYRACUSE, NEW YORK

# FACILITY PLAN



FILE NO. 4966.21535.312 JUNE 2005



2002 test pit photo logs



Test Pit #1
Photo taken on: 5/14/02
Teall Avenue-Nimo station



Test Pit #1A
Photo taken on: 5/14/02
Teall Avenue-Nimo Station



Test Pit #2
Photo taken on: 5/14/02
Teall Avenue-Nimo station



Test Pit #2A-Material in wheelbarrow Photo taken on: 5/14/02 Teall Avenue-Nimo station



Test Pit #3
Photo taken on: 5/14/02
Teall Avenue: Nimo station



Photo taken on: 5/14/02
Teall Avenue-Nimo station

Data usability summary report (DUSR)

From: Karen Storne VOD

Re: GM Main Plant Landfill IRM DUSR

File: 4966/34126.005.601 Date: March 29, 2005 cc: DM Crawford BA Kubiak CF Leary MS Markert

A usability review of analytical data was performed for the polychlorinated biphenyl (PCB) analyses that were performed for the GM Main Plant Former Landfill IRM Site. The samples were analyzed using United States Environmental Protection Agency (USEPA) methods, and analytical and deliverables guidance provided in New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP). The following table summarizes the analysis performed for this investigation.

Parameter	Method	Reference
PCBs	USEPA Method 3520C/3550B/8082	1, 2
Percent Total Solids	2540-G	3

#### Note:

- United States Environmental Protection Agency (USEPA). 1996. Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846), 3<sup>rd</sup> Edition. Washington, D.C., 1986 as updated through December 1996.
- New York State Department of Environmental Conservation (NYSDEC). 1995. Analytical Services Protocol (ASP) Methods, October 1995 Revisions. Albany, NY.
- American Water Works Association (AWWA), American Public Health Association (APHA) and Water Environment Federation (WEF). 1992. Standard Methods for the Examination of Water and Wastewater, 18th Edition. Washington, D.C.

PCBs indicates polychlorinated biphenyls.

The samples collected for this investigation are summarized in Table 1-2.

O'Brien & Gere Laboratories, Inc. performed the analyses and provided the laboratory data packages, which contained summary forms for quality control analysis and supportive raw data. Full validation was performed on the data packages. A review of the laboratory data was conducted applying method criteria and evaluation and qualification guidance from the following document (modified where applicable):

• USEPA. 2002. USEPA Region II Validating PCB Compounds by SW-846 Method 8082, SOP HW-23B, Revision 1. New York, NY.

The data usability review included evaluating the following parameters, where applicable:

- Chain-of-custody records
- Sample collection
- Holding times
- Sample preservation
- Analysis issues
- Percent solids
- Calibrations
- Blank analysis
- Matrix spike/matrix spike duplicate (MS/MSD) and matrix spike blank (MSB) analyses
- Laboratory control sample (LCS) analysis

- Field duplicate analysis
- Surrogate recovery
- GC performance
- Analytical sequence
- Confirmation analysis
- Target analyte quantitation, identification, and reported detection limits, and
- Documentation completeness.

The quantity and types of samples that were submitted for data validation are presented in Table 1-1 below.

Laboratory	Date Collected	Client ID	Laboratory ID	Analysis Requested
OBG Labs	10/10/02	SS06-IN-2	X5915	PCBs, Percent Solids
		SS06-4W-2	X5916	PCBs, Percent Solids
		T4-1-4W-2	X5917	PCBs, Percent Solids
		Field Duplicate #1 [TB53-5F2]	X5918	PCBs, Percent Solids
		TB51-5F-2	X5906	PCBs, Percent Solids
		SS08-1N-2	X5907	PCBs, Percent Solids
		SS08-5F-2	X5908	PCBs, Percent Solids
		SS08-2E-2, MS/MSD	X5909	PCBs, Percent Solids
		TB-53-5F-2	X5910	PCBs, Percent Solids
		TB-53-2E-2	X5911	PCBs, Percent Solids
		TB-53-IN-2	X5912	PCBs, Percent Solids
		TB-53-3S-2	X5913	PCBs, Percent Solids
		TB-53-4W-2	X5914	PCBs, Percent Solids
OBG Labs	8/5/02	NW-DP2-S	W2617	PCBs, Percent Solids
		NW-DP2-W	W2618	PCBs, Percent Solids
		NW-DP2-N1	W2619	PCBs, Percent Solids
		NW-DP2-N2	W2620	PCBs, Percent Solids
		NW-DP2-E1	W2621	PCBs, Percent Solids
		NW-DP2-E2	W2622	PCBs, Percent Solids
		NW-DP2-B1	W2623	PCBs, Percent Solids
		NW-DP2-B2	W2624	PCBs, Percent Solids
OBG Labs	8/8/02	TB-51-1N	W2912	PCBs, Percent Solids

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Laboratory	Date Collected	Client ID	Laboratory ID	Analysis Requested
		TB-51-2E	W2913	PCBs, Percent Solids
		TB-51-3S	W2914	PCBs, Percent Solids
		TB-51-4W	W2915	PCBs, Percent Solids
		TB-51-5F	W2916	PCBs, Percent Solids
		Field Duplicate #1 [T4-5F]	W2917	PCBs, Percent Solids
		T4-1-1N	W2918	PCBs, Percent Solids
		T4-1-2E	W2919	PCBs, Percent Solids
		T4-1-3S	W2920	PCBs, Percent Solids
		T4-1-4W	W2921	PCBs, Percent Solids
		T4-5F, MS/MSD	W2922	PCBs, Percent Solids
OBG Labs	8/8/02	SS08-1N	W2923	PCBs, Percent Solids
		SS08-2E	W2924	PCBs, Percent Solids
		SS08-3S	W2925	PCBs, Percent Solids
		SS08-4W	W2926	PCBs, Percent Solids
		SS08-5F	W2927	PCBs, Percent Solids
		TB-53-1N	W2957	PCBs, Percent Solids
		TB-53-2E, MS/MSD	W2958	PCBs, Percent Solids
		TB-53-3S	W2959	PCBs, Percent Solids
		TB-53-4W	W2960	PCBs, Percent Solids
		TB-53-5F	W2961	PCBs, Percent Solids
		SS06-1N	W2962	PCBs, Percent Solids
		SS06-2E	W2963	PCBs, Percent Solids
		SS06-3S	W2964	PCBs, Percent Solids
		SS06-4W	W2965	PCBs, Percent Solids
		SS06-5F	W2966	PCBs, Percent Solids
		Field Duplicate #2 [SS06-1N]	W2967	PCBs, Percent Solids
OBG Labs	11/5/02	TB-53-3S-3	Y0762	PCBs, Percent Solids
•		TB-53-2E-3	Y0763	PCBs, Percent Solids
		Field Duplicate #1 [TB-53-2E-3]	Y0764	PCBs, Percent Solids

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Laboratory	Date Collected	Client ID	Laboratory ID	Analysis Requested		
		SS08-IN-3	Y0801	PCBs, Percent Solids		
OBG Labs	12/18/02	SS08-1N-4	Z7726	PCBs, Percent Solids		
OBG Labs	4/30/03	SS-08-IN-5	A4723	PCBs, Percent Solids		
OBG Labs	7/11/03	SS-08-IN-6	A8341	PCBs, Percent Solids		
OBG Labs	9/25/03	TB-11-F1	B1002	PCBs, Percent Solids		
OBG Labs	9/25/03	TB-11-N1, MS/MSD	B1003	PCBs, Percent Solids		
OBG Labs	9/25/03	TB-11-E1	B1004	PCBs, Percent Solids		
OBG Labs	9/25/03	TB-11-S1	B1005	PCBs, Percent Solids		
OBG Labs	9/25/03	TB-11-W1	B1006	PCBs, Percent Solids		
OBG Labs	9/25/03	TB-11-FD [TB-11-W1]	B1007	PCBs, Percent Solids		
OBG Labs	9/30/03	4+40-F	B1210	PCBs, Percent Solids		
OBG Labs	9/30/03	4+90-F	B1211	PCBs, Percent Solids		
OBG Labs	9/30/03	5+40-F	B1212	PCBs, Percent Solids		
OBG Labs	9/30/03	5+90-F	B1213	PCBs, Percent Solids		
OBG Labs	9/30/03	4+40-N	B1214	PCBs, Percent Solids		
OBG Labs	9/30/03	4+90-N	B1215	PCBs, Percent Solids		
OBG Labs	9/30/03	5+40-N	B1216	PCBs, Percent Solids		
OBG Labs	9/30/03	5+90-N	B1217	PCBs, Percent Solids		
OBG Labs	10/9/03	5+85 N-A, MS/MSD	B1646	PCBs, Percent Solids		
OBG Labs	10/9/03	5+85 N-B	B1647	PCBs, Percent Solids		
OBG Labs	10/9/03	5+85 N-C	B1648	PCBs, Percent Solids		
OBG Labs	10/9/03	5+85 F	B1649	PCBs, Percent Solids		
OBG Labs	10/9/03	5+40 N-B	B1650	PCBs, Percent Solids		
OBG Labs	10/9/03	5+40 N-C	B1651	PCBs, Percent Solids		
OBG Labs	10/9/03	5+40 F	B1652	PCBs, Percent Solids		
OBG Labs	10/9/03	COB-1	B1653	PCBs, Percent Solids		
OBG Labs	10/9/03	4+85 F	B1654	PCBs, Percent Solids		
OBG Labs	10/9/03	4+85 N-B	B1655	PCBs, Percent Solids		
OBG Labs	10/9/03	4+85 N-C	B1656	PCBs, Percent Solids		
OBG Labs	10/9/03	4+40 N-B	B1657	PCBs, Percent Solids		

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Laboratory	Date Collected	Client ID	Laboratory ID	Analysis Requested
OBG Labs	10/9/03	4+40 N-C	B1658	PCBs, Percent Solids
OBG Labs	10/9/03	4+40 F	B1659	PCBs, Percent Solids
OBG Labs	10/22/03	SS-02-05-S2	B2266	PCBs, Percent Solids
OBG Labs	10/22/03	SS-02-05-F2	B2267	PCBs, Percent Solids
OBG Labs	10/22/03	SS-02-05-W2	B2268	PCBs, Percent Solids
OBG Labs	10/22/03	SS-02-05-N2	B2269	PCBs, Percent Solids
OBG Labs	10/22/03	6+15	B2270	PCBs, Percent Solids
OBG Labs	10/23/03	4+85-F, MS/MSD	B2310	PCBs, Percent Solids
OBG Labs	10/23/03	4+85-N	B2311	PCBs, Percent Solids
OBG Labs	10/23/03	4+85-E	B2312	PCBs, Percent Solids
OBG Labs	10/23/03	4+85-S	B2313	PCBs, Percent Solids
OBG Labs	10/23/03	4+85-W	B2314	PCBs, Percent Solids
OBG Labs	10/23/03	4+85-FD [4+85-S]	B2315	PCBs, Percent Solids
OBG Labs	10/13/03	NIMO 1+74, MS/MSD	B1814	PCBs, Percent Solids
OBG Labs	10/13/03	NIMO 2+88	B1815	PCBs, Percent Solids
OBG Labs	10/13/03	NIMO 4+85	B1816	PCBs, Percent Solids
OBG Labs	10/13/03	FD [NIMO DITCH MH]	B1817	PCBs, Percent Solids
OBG Labs	10/13/03	NIMO DITCH MH	B1818	PCBs, Percent Solids
OBG Labs	10/14/03	SS-02-05-F	B1858	PCBs, Percent Solids
OBG Labs	10/14/03	SS-02-05-N	B1859	PCBs, Percent Solids
OBG Labs	10/14/03	SS-02-05-E	B1860	PCBs, Percent Solids
OBG Labs	10/14/03	SS-02-05-S	B1861	PCBs, Percent Solids
OBG Labs	10/14/03	SS-02-05-W	B1862	PCBs, Percent Solids
OBG Labs	10/14/03	TB-53-W	B1863	PCBs, Percent Solids
OBG Labs	10/14/03	5+90-F	B1864	PCBs, Percent Solids
OBG Labs	10/14/03	5+40-F	B1865	PCBs, Percent Solids
OBG Labs	10/14/03	4+40-F	B1866	PCBs, Percent Solids
OBG Labs	10/14/03	4+85-F	B1867	PCBs, Percent Solids
OBG Labs	10/14/03	5+31 Swale	B1868	PCBs, Percent Solids
OBG Labs	10/17/03	6+30-TOP	B2153	PCBs, Percent Solids

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Laboratory	Date Collected	Client ID	Laboratory ID	Analysis Requested	
OBG Labs	10/17/03	6+30-BANK	B2154	PCBs, Percent Solids	
BG Labs	10/17/03	6+10-TOP	B2155	PCBs, Percent Solids	
BG Labs	10/17/03	6+10-BANK	B2156	PCBs, Percent Solids	
OBG Labs	10/17/03	5+70	B2157	PCBs, Percent Solids	
)BG Labs	10/30/03	COB-2	B2668	PCBs, Percent Solids	
DBG Labs	10/30/03	COB-3	B2669	PCBs, Percent Solids	
DBG Labs	10/30/03	COB-4	B2670	PCBs, Percent Solids	
OBG Labs	11/1/03	3+00	B2724	PCBs, Percent Solids	
DBG <b>L</b> abs	11/1/03	2+00	B2725	PCBs, Percent Solids	
OBG Labs	11/5/03	4+85-E2	B2857	PCBs, Percent Solids	
OBG Labs	11/5/03	4+85-W2, MS/MSD	B2858	PCBs, Percent Solids	
OBG Labs	11/5/03	SS-02-05-F3	B2859	PCBs, Percent Solids	
OBG Labs	11/5/03	SS-02-05-W3	B2860	PCBs, Percent Solids	
DBG Labs	11/5/03	FD [SS-02-05-F3]	B2861	PCBs, Percent Solids	
OBG Labs	11/5/03	COB-5	B2862	PCBs, Percent Solids	
OBG Labs	11/10/03	COB-6	B3118	PCBs, Percent Solids	
OBG Labs	11/11/03	COB-7	B3278	PCBs, Percent Solids	
OBG Labs	11/10/03	1+12-N WALL	B3279	PCBs, Percent Solids	
OBG Labs	11/10/03	0+25-N WALL	B3280	PCBs, Percent Solids	
OBG Labs	11/13/03	4+85-E3	B3487	PCBs, Percent Solids	
OBG Labs	8/17/04	6+52-NW		PCBs, Percent Solids	
DBG Labs	8/18/04	7+52-NW		PCBs, Percent Solids	
OBG Labs	10/7/04	6+10-BANK-N	E7731	PCBs, Percent Solids	
OBG Labs	10/7/04	6+10-BANK-S	E7732	PCBs, Percent Solids	
OBG Labs	10/7/04	6+10-BANK-W	E7733	PCBs, Percent Solids	
DBG Labs	10/7/04	6+10-BANK-E	E7734	PCBs, Percent Solids	
OBG Labs	10/7/04	6+10-BANK-F	E7735	PCBs, Percent Solids	
OBG Labs	10/7/04	FD [6+10-BANK-F]	E7736	PCBs, Percent Solids	
DBG Labs	10/7/04	SM101-N	E7737	PCBs, Percent Solids	
OBG Labs	10/7/04	SM101-S	E7738	PCBs, Percent Solids	

Laboratory	Date Collected	Client ID	Laboratory ID	Analysis Requested
OBG Labs	10/7/04	SM101-W	E7739	PCBs, Percent Solids
OBG Labs	10/7/04	SM101-E, MS/MSD	E7740	PCBs, Percent Solids
OBG Labs	10/7/04	SM101-F	E7741	PCBs, Percent Solids
OBG Labs	10/7/04	SS-02-05-W3	E7742	PCBs, Percent Solids
OBG Labs	10/12/04	SM101-F2	E7926	PCBs, Percent Solids
OBG Labs	10/12/04	SM101-E2	E7927	PCBs, Percent Solids
OBG Labs	10/12/04	6+10 BANK-F2	E7928	PCBs, Percent Solids
OBG Labs	10/12/04	6+10 BANK-W2	E7929	PCBs, Percent Solids
OBG Labs	10/12/04	6+10 BANK-S2	E7930	PCBs, Percent Solids
OBG Labs	10/14/04	6+10 BANK-F3	E8017	PCBs, Percent Solids
OBG Labs	10/14/04	6+10 BANK-S3	E8018	PCBs, Percent Solids
OBG Labs	11/10/04	TB-02-03A (10-16')	E9249	PCBs, Percent Solids

Note:

PCBs indicates polychlorinated biphenyls.

MS, MSD indicates matrix spike/matrix spike duplicate analyses.

The sample identification in brackets indicates the sample location from which the duplicate sample was collected.

The following sections of this memorandum present the results of the comparison of the analytical data to the QA/QC criteria specified in the USEPA methods and validation guidance, and the qualifiers assigned to the data when the QA/QC criteria were not met. Excursions that resulted in the qualification of samples are described in the following sections.

#### CHAIN OF CUSTODY RECORDS

For samples collected 8/5/02, a time gap was detected; the chain-of-custody record listed the samples as being relinquished at 12:07 on 8/5/02 and received by the laboratory on at 12:10 on 8/5/02.

For samples collected 10/13/03, a time gap was detected; the chain-of-custody record listed the samples as being relinquished by the field representative to the laboratory security guard at 19:30 on 10/13/03 and received by the laboratory security guard on at 19:25 on 10/13/03.

For a second set of samples collected 10/13/03, time gaps were detected; the chain-of-custody record listed the samples as first being relinquished by the field representative at 14:11 on 10/13/03 but was not listed as being received by a second party. The chain-of-custody record then listed the samples as being relinquished at 17:45 on 10/13/03 but was received by the laboratory at 8:00 on 10/14/03.

The Project Manager was informed of the chain-of-custody record issues and will address the non-conformities with appropriate corrective actions.

### SAMPLE PRESERVATION

Samples were generally collected and delivered to the laboratory on the same day. Since the sampling site is close to the laboratory location, samples were stored in the coolers for a short period of time. For coolers containing ice, samples may not have been cooled to  $4^{\circ}$ C  $\pm 2^{\circ}$ C as required for this project due to the short time the samples were in the cooler and exposed to the ice. In some cases, the laboratory did not note whether ice was present in the sample coolers upon receipt.

The samples collected 8/5/02 were collected and delivered to the laboratory on the same day. However, the cooler temperature was documented at  $30^{\circ}$ C, which exceeded the acceptable temperature range of  $4^{\circ}$ C  $\pm 2^{\circ}$ C. The laboratory noted that ice was found in the cooler. Utilizing the Region II validation guidelines approach to cooler temperature issues, the samples collected 8/5/02 for PCB analysis associated with a cooler temperature of greater than  $10^{\circ}$ C were qualified as approximate (UJ, J).

The sample collected 12/18/02 was collected and delivered to the laboratory on the same day. However, the cooler temperature was documented at  $11^{\circ}$ C, which exceeded the acceptable temperature range of  $4^{\circ}$ C  $\pm 2^{\circ}$ C. The laboratory noted that ice was not found in the cooler. Utilizing the Region II validation guidelines approach to cooler temperature issues, the sample collected 12/18/02 for PCB analysis associated with a cooler temperature of greater than  $10^{\circ}$ C was qualified as approximate (UJ, J).

The sample collected 4/30/03 was collected and delivered to the laboratory on the same day. However, the cooler temperature was documented at  $11^{\circ}$ C, which exceeded the acceptable temperature range of  $4^{\circ}$ C  $\pm 2^{\circ}$ C. The laboratory noted that ice was found in the cooler. Utilizing the Region II validation guidelines approach to cooler temperature issues, the sample collected 4/30/03 for PCB analysis associated with a cooler temperature of greater than  $10^{\circ}$ C was qualified as approximate (UJ, J).

The sample collected 7/11/03 was collected and delivered to the laboratory on the same day. However, the cooler temperature was documented at  $20^{\circ}$ C, which exceeded the acceptable temperature range of  $4^{\circ}$ C  $\pm 2^{\circ}$ C. The laboratory noted that ice was found in the cooler. Utilizing the Region II validation guidelines approach to cooler temperature issues, the sample collected 7/11/03 for PCB analysis associated with a cooler temperature of greater than  $10^{\circ}$ C was qualified as approximate (UJ, J).

The samples collected 9/25/03 and 9/30/03 were collected and delivered to the laboratory on the same day. However, the cooler temperatures were documented at  $19^{\circ}$ C and ambient temperature, which exceeded the acceptable temperature range of  $4^{\circ}$ C  $\pm 2^{\circ}$ C. The laboratory noted that ice was found in the cooler for samples collected 9/25/03. Utilizing the Region II validation guidelines approach to cooler temperature issues, the samples collected 9/25/03 and 9/30/03 for PCB analysis associated with a cooler temperature of greater than  $10^{\circ}$ C were qualified as approximate (UJ, J).

The samples collected 10/22/03 were collected and delivered to the laboratory on the same day. However, the cooler temperature was documented at  $16.4^{\circ}$ C, which exceeded the acceptable temperature range of 4 °C  $\pm 2$  °C. The laboratory noted that ice was not found in the cooler. Utilizing the Region II validation guidelines approach to cooler temperature issues, the samples collected 10/22/03 for PCB analysis associated with a cooler temperature of greater than  $10^{\circ}$ C were qualified as approximate (UJ, J).

The samples collected 10/13/03 and 10/17/03 were collected and delivered to the laboratory on the same day. However, the cooler temperatures were documented at 11°C and ambient temperature, which exceeded the acceptable temperature range of 4°C ±2°C. The laboratory noted that ice was not found in the coolers. Utilizing the Region II validation guidelines approach to cooler temperature issues, the samples collected 10/13/03 and 10/17/03 for PCB analysis associated with a cooler temperature of greater than 10°C were qualified as approximate (UJ, J).

The samples collected 11/5/03 and 11/10/03 were collected and delivered to the laboratory on the same day. However, the cooler temperatures were documented at 13°C and 14.5°C, which exceeded the acceptable temperature range of 4°C ±2°C. The laboratory noted that ice was found in the coolers. Utilizing the Region II validation guidelines approach to cooler temperature issues, the samples collected 11/5/03 and 11/10/03 for PCB analysis associated with a cooler temperature of greater than 10°C were qualified as approximate (UJ, J).

The sample collected 11/13/03 was collected and delivered to the laboratory on the same day. However, the cooler temperature was documented at  $15^{\circ}$ C, which exceeded the acceptable temperature range of  $4^{\circ}$ C  $\pm 2^{\circ}$ C. The laboratory noted that ice was not found in the cooler. Utilizing the Region II validation guidelines approach to cooler temperature issues, the sample collected 11/13/03 for PCB analysis associated with a cooler temperature of greater than  $10^{\circ}$ C was qualified as approximate (UJ, J).

The samples collected 10/7/04 were collected and delivered to the laboratory on the same day. However, the cooler temperatures were documented at ambient temperature, which exceeded the acceptable temperature range of 4°C ±2°C. The laboratory noted that ice was not found in the coolers. Utilizing the Region II validation guidelines approach to cooler temperature issues, the samples collected 10/7/04 for PCB analysis associated with a cooler temperature of greater than 10°C were qualified as approximate (UJ, J).

#### POLYCHLORINATED BIPHENYL DATA EVALUATION SUMMARY

The following QA/QC parameters were found to meet method and validation criteria or did not result in additional qualification of sample results:

- Sample collection
- Holding times
- Analysis issues
- Blank analysis
- MS/MSD and MSB analyses
- Field duplicate analysis
- Surrogate recovery
- GC performance
- Analytical sequence
- Confirmation analysis and
- Documentation completeness.

Excursions from quality control criteria and additional observations are summarized below.

## I. Percent solids

In accordance with validation guidance, the results in the following samples were qualified as approximate, (UJ, J) since the percent solids value was less than 50%: 5+85-N-C, 5+40-N-C, 5+40 F, 4+85 N-C, 4+40 N-C, 7+52-NW.

#### II. Calibrations

The results for Aroclor 1254 in samples 3+00 and 2+00 were qualified as approximate (UJ) since the initial calibration associated with the samples was outside of the coefficient of the determination of greater than 0.990 validation criterion.

The results for Aroclor 1254 in samples 6+10 BANK-N and SS-02-05-W3 were qualified as approximate (UJ) since the calibration verification associated with the samples exceeded the 15%D validation criterion.

The results for Aroclor 1260 in samples 5+40 N-B, 5+40 N-C, 5+40 F, COB-1, 4+85 F, 4+85 N-B, 4+40 N-B, 4+40 N-C, and 4+40 F were qualified as approximate (UJ) since the calibration verification associated with the samples exceeded the 15%D validation criterion.

## III. LCS analysis

The results for Aroclor 1260 in samples 6+10-BANK-N, 6+10-BANK-S, 6+10-BANK-W, 6+10-BANK-E, 6+10-BANK-F, FD [6+10-BANK-F], SM101-N, SM101-S, SM101-W, SM101-E, SM101-F, and SS-02-05-W3 were qualified as approximate (UJ) since recovery for the analyte in the associated LCS analysis was outside of the laboratory control limit.

# IV. Target analyte quantitation and identification

The percent difference (%D) values were evaluated for the positive results from the two chromatographic columns for PCBs. Results were greater than 25% indicating confirmation excursions. As a result, the results for samples with a %D greater than 25% were qualified as approximate (J). Results for samples with interferences or with a %D greater than 70%, or with a %D greater than 100% and interferences, were qualified as approximate (NJ). Results associated with a %D of greater than 50 and with concentrations that were less than the reporting limit were qualified as non-detected (U).

For samples collected 10/10/02, the %D values calculated for the detected Aroclor results from the primary and confirmation chromatographic columns were greater than 25 percent indicating confirmation excursions. As a result of the confirmation excursions, the results for target analytes in samples with a %D greater than 25 percent were qualified as approximate (J). The following samples were qualified due to confirmation excursions: SS08-2E-2, TB53-2E-2, TB53-4W-2, Field Duplicate #1 [TB53-5F-2].

For samples collected 8/5/02 and 8/8/02, the percent difference (%D) values were greater than 25 percent. As a result of the confirmation excursions, the results for target analytes in samples with a %D greater than 25 percent were qualified as approximate (J). The following samples were qualified due to confirmation excursions: NW-DP2-S, TB51-1N, TB51-2E, Field Duplicate #1 [T4-5F], T4-1-1N, T4-1-3S, T4-5F, SS08-3S, SS08-4W, TB53-5F, SS06-3E, SS06-3S.

As a result of the confirmation excursions, the results in the following samples with a %D greater than 25 percent were qualified as approximate (J): TB-11-F1, TB-11-W1, TB-11-FD [TB-11-W1], 4+90-N, 5+40-N, 5+90-N.

As a result of the confirmation excursions, the results in the following samples with a %D greater than 25 percent were qualified as approximate (J, NJ): 5+85 N-B, 5+40 N-C, 5+40 F, COB-1, 4+85 N-B, 4+85 N-C, 4+40 N-B, 4+40 N-C.

As a result of the confirmation excursions, the results in the following samples with a %D greater than 25 percent were qualified as approximate (J): SS-02-05-S2, SS-02-05-F2, SS-02-05-N2, 6+15, 4+85-E, 7+52-NW.

As a result of the confirmation excursions, the results in the following samples with a %D greater than 25 percent were qualified as approximate (J, NJ): SS-02-05-F, SS-02-05-N, SS-02-05-E, SS-02-05-W, TB-53-W, 6+10-TOP, 5+70.

As a result of the confirmation excursions, the results in the following samples with a %D greater than 25 percent were qualified as approximate (J): COB-4, 4+85-E2.

As a result of the confirmation excursions, the results in the following samples with a %D greater than 25 percent were qualified as approximate (J): 6+10-BANK-N, 6+10-BANK-S, 6+10-BANK-E, SM101-N, SM101-S, SM101-E, SS-02-05-W3.

For samples collected for this project, confirmation of the Aroclor results for quantitation purposes was performed by the laboratory for a minimum of 10 percent of the detected sample results.

As directed by the Project Manager, the sample results reported from the analysis using the primary column was retained and reported for this investigation. Sample results reported from the confirmation column were utilized for confirmation purposes only and were not reported in the final sample results.

# V. Reported detection limits

Dilutions were performed for the PCB analysis of samples as a result of high concentrations of target analytes or due to matrix interference.

The results for samples SS08-5F-2 and T4-1-4W-2 were revised by the laboratory. The revised results included "J" values for results greater than the MDL but less than the reporting limit.

The qualifier "J" was applied by the laboratory when the analyte concentration was greater than the MDL but less than the reporting limit. This qualifier has been retained during the validation process to indicate that the result is considered to be approximate.

#### DATA USABILITY

Overall data usability with respect to completeness is 100 percent for the PCB data. Based on the review performed the data were determined to be usable for qualitative and quantitative purposes.

Appendix C

Electronic copy of analytical results

# See Table 1 for analytical results summary

# O'Brien & Gere Laboratories,Inc.

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2918

Samp. Description: T4-1-1N

Primary column: Y Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 1

Instrument: HP5890-90

# Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

/02 Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02

Analyzed: 08/09/02

QC Batch: 080902S1 %Solids: 83.0

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qua1	Col	$\mathtt{MDL}$	RL	Notes
PCB-1016	< .60	U	1	.08349	.60	
PCB-1221	< .60	U	1	.11458	.60	
PCB-1232	< .60	U	1	.14892	.60	
PCB-1242	< .60	U	1	.05783	.60	
PCB-1248	4.6		1	.16590	.6024	
PCB-1254	< .60	U	1	.10916	.60	
PCB-1260	< .60	U	1	.07120	.60	

Surrogate	Result Qual	Col	Limits Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	87.8	1	30-150
Decachlorobiphenyl (surrogate)	82.%	1	30-150

Notes:

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 13, 2002

Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2925 Sample: W2918

Samp. Description: T4-1-1N

Primary column: N Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 1

Instrument: HP5890-90

### **Analytical Results** Method: 8082

Job No.: 3435,087,66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S1

Prepared: 08/09/02 Analyzed: 08/09/02 %Solids: 83.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< .60	U	2	.08349	.60	
PCB-1221	< .60	U	2	.11458	.60	
PCB-1232	< .60	U·	2	.14892	.60	
PCB-1242	< .60	U	2	.05783	.60	
PCB-1248	5.9		2	.16590	.6024	
PCB-1254	< .60	U	2	.10916	.60	
PCB-1260	< .60	U	2	.07120	.60	

Surrogate	Result Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	92.%	2	30~150	
Decachlorobiphenyl (surrogate)	76.%	2	30-150	

Notes:

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 13, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2919

Samp. Description: T4-1-2E

Primary column Y Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 10

Instrument: HP5890-90

### Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02

Analyzed: 08/12/02

QC Batch: 080902S1

%Solids: 90.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 5.6	U	1	.77	5.6	
PCB-1221	< 5.6	Ü	1	1.0567	5.6	
PCB-1232	< 5.6	Ü	1	1.3733	5.6	
PCB-1242	< 5.6	Ü	1	.53333	5.6	
PCB-1248	19.		1	1.53	5.555	6
PCB-1254	< 5.6	U	1	1.0067	5.6	
PCB-1260	< 5.6	U	1	.65667	5.6	

Surrogate	Result Qual	Col	Limits Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	94.%	1	30-150	38
Decachlorobiphenyl (surrogate)	86.%	1	30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2919

Samp. Description: T4-1-2E

Primary column N Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 10

Instrument: HP5890-90

### Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02

QC Batch: 080902S1

Prepared: 08/09/02 %Solids: 90.0 Analyzed: 08/12/02 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 5.6	Ü	2	.77	5.6	
PCB-1221	< 5.6	Ū	2	1.0567	5.6	
PCB-1232	< 5.6	U	2	1.3733	5.6	
PCB-1242	< 5.6	Ū	2	.53333	5.6	
PCB-1248	18.		2	1.53	5.555	6
PCB-1254	< 5.6	U	2	1.0067	5.6	
PCB-1260	< 5.6	U	2	.65667	5.6	

Surrogate	Result Qual	Col	Limits No	tes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	103.%	2	30-150	38
Decachlorobiphenyl (surrogate)	83.%	2	30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W 2920

Samp. Description: T4-1-3S

Primary column Y
Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 10

Instrument: HP5890-90

### Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

lected: 08/08/02

Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02 Analyzed: 08/09/02 QC Batch: 080902S1 %Solids: 90.0

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 5.6	Ü	1	.77	5.6	
PCB-1221	< 5.6	Ü	1	1.0567	5.6	
PCB-1232	< 5.6	U	1	1.3733	5.6	
PCB-1242	< 5.6	Ü	1	.53333	5.6	
PCB-1248	11.		1	1.53	5.555	
PCB-1254	< 5.6	Ü	1	1.0067	5.6	
PCB-1260	< 5.6	Ü	1	.65667	5.6	

Surrogate	Result Qual	Col	Limits Note	es
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	89.%	1	30-150	 38
Decachlorobiphenyl (surrogate)	87.%	1	30-150	38

### Notes:

38: Surrogate was diluted
38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2920

Samp. Description: T4-1-3S

Primary column N Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 10

Instrument: HP5890-90

### Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Analyzed: 08/09/02

Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02

QC Batch: 080902S1

%Solids: 90.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MOL	RL	Notes
PCB-1016	< 5.6	U	2	.77	5.6	
PCB-1221	< 5.6	U	2	1.0567	5.6	
PCB-1232	< 5.6	U	2	1.3733	5.6	
PCB-1242	< 5.6	U	2	.53333	5.6	
PCB-1248	15.		2	1.53	5.555	
PCB-1254	< 5.6	U	2	1.0067	5.6	
PCB-1260	< 5.6	U	2	.65667	5.6	

Surrogate	Result Qual	Col	Limits Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	98.%	2	30-150	38
Decachlorobiphenyl (surrogate)	85.%	2	30-150	38

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2921

Samp. Description: T4-1-4W

Primary column: Y Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 50 Instrument: HP5890-90

### Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

8/02 Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02 QC Batch: 080902S1 %Solids: 88.0

Prepared: 08/09/02 %Solids: 88.0 Analyzed: 08/09/02 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL N	otes
PCB-1016	< 28.	Ū	2	3.9375	28.	
PCB-1221	< 28.	U	2	5.4034	28.	
PCB-1232	< 28.	U	2	7.0227	28.	
PCB-1242	< 28.	U	2	2.7273	28.	
PCB-1248	120.		2	7.8239	28.4096	
PCB-1254	< 28.	U	2	5.1477	28.	
PCB-1260	< 28.	U	2	3.3580	28.	

Surrogate	Result Qual	Col	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	168.%	2 ‡	30-150		38
Decachlorobiphenvl (surrogate)	81.%	2	30-150		38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized amas a Clefande

Date: August 13, 2002 Thomas Alexander

Client: O'Brien & Gère Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2921

Samp. Description: T4-1-4W

Primary column: N Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 50

Instrument: HP5890-90

### Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02 QC Batch: 080902S1

Prepared: 08/09/02 %Solids: 88.0 Analyzed: 08/13/02 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL Note
PCB-1016	< 28.	U	1	3.9375	28.
PCB-1221	< 28.	U	1	5.4034	28.
PCB-1232	< 28.	U	1	7.0227	28.
PCB-1242	< 28.	U	1	2.7273	28.
PCB-1248	130.		1	7.8239	28.409 6
PCB-1254	< 28.	U	1	5.1477	28.
PCB-1260	< 28.	U	1	3.3580	28.

Surrogate	Result Qual	Col	Limits Note	88
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	168.%	1 #	30-150	38
Decachlorobiphenyl (surrogate)	87.%	1	30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 13, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2922

Samp. Description: T4-5F

Primary column: Y Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 1 Instrument: HP5890-90

Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S1

Prepared: 08/09/02 %Solids: 76.0 Analyzed: 08/09/02 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qua1	Co1	MDL	RL	Notes
PCB-1016	< .66	U	1	.09118	.66	
PCB-1221	< .66	U	1	.12513	.66	
PCB-1232	< .66	U	1	.16263	.66	
PCB-1242	< .66	U	1	.06316	.66	
PCB-1248	2.6		1	.18118	.6579	
PCB-1254	< .66	U	1	.11921	.66	
PCB-1260	< .66	U	1	.07776	.66	

Surrogate	Result Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	74.8	1	30-150	
Decachlorobiphenyl (surrogate)	71.8	1	30-150	

Notes:

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 13, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925

Sample: W2922 Samp. Description: T4-5F

Primary column: N Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 1 Instrument: HP5890-90

Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02

QC Batch: 080902S1

Prepared: 08/09/02 %Solids: 76.0 Analyzed: 08/09/02 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< .66	U	2	.09118	.66	
PCB-1221	< .66	U	2	.12513	.66	
PCB-1232	< .66	U	2	.16263	.66	
PCB-1242	< .66	U	2	.06316	.66	
PCB-1248	3.3		2	.18118	.6579	
PCB-1254	< .66	U	2	.11921	.66	
PCB-1260	< .66	U	2	.07776	.66	

Surrogate	Result Qual	Col	Limits Note	s
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	81.%	2	30-150	
Decachlorobiphenyl (surrogate)	68.%	2	30-150	

Notes:

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 13, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2917

Samp. Description: FD #1 Primary column Y Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 1

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S1

Prepared: 08/09/02 Analyzed: 08/09/02 %Solids: 90.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< .56	Ü	1	.077	.56	
PCB-1221	< .56	U	1	.10567	.56	
PCB-1232	< .56	U	1	.13733	.56	
PCB-1242	< .56	Ü	1	.05333	.56	
PCB-1248	2.6		1	.153	.5556	6
PCB-1254	< .56	U	1	.10067	.56	
PCB-1260	< .56	U	1	.06567	.56	

Surrogate	Result Qual	Col	Limits Note	≥s
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	83.%	1	30-150	
Decachlorobiphenyl (surrogate)	82.%	1	30-150	

### Notes:

6: Altered aroclor.

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2925 Sample: W2917

Samp. Description: FD #1

Primary column: N

Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 1

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

08/02 Matrix: Solid

Received: 08/08/02

QC Batch: 080902S1

Prepared: 08/09/02 %Solids: 90.0 Analyzed: 08/09/02 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< .56	U	2	.077	. 56	
PCB-1221	< .56	U	2	.10567	.56	
PCB-1232	< .56	U	2	.13733	.56	
PCB-1242	< .56	U	2	.05333	.56	
PCB-1248	3.6		2	.153	.5556	
PCB-1254	< .56	U	2	.10067	.56	
PCB-1260	< .56	U	2	.06567	.56	

Surrogate	Result Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	90.%	2	30-150	
Decachlorobiphenyl (surrogate)	78.%	2	30-150	

### Notes:

6: Altered aroclor.

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:\_\_\_

Date: August 13, 2002

Thomas Alexander

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2925 Sample: W 2912

Sample Description: TB51-1N

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435, 087, 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S1

Prepared: 08/09/02

%Solids: 91.0 Sample Size: 30 g

Primary: N

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .55 U	.076	.55	1	08/09/02
PCB-1221	< .55 U	.105	.55	1	08/09/02
PCB-1232	< .55 U	.136	.55	1	08/09/02
PCB-1242	< .55 U	.053	.55	1	08/09/02
PCB-1248	2.1	.151	.5494	1	08/09/02
PCB-1254	< .55 U	.1	.55	1	08/09/02
PCB-1260	< .55 V	.065	.55	1	08/09/02

Surrogate	2 -		%R	
	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	88.		30-150	
Decachlorobiphenyl (surrogate)	70.		30-150	

Column Name: DB-1701, 30m x .53nun ID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized

Date: December 21, 2004

Thomas Alexander

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2925 Sample: W2912

Sample Description: TB51-1N

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Certification NY No.: 10155

Job No.: 3435, 087, 66301

08/08/02 Collected:

Matrix: Solid

Received: Prepared: 08/09/02

08/08/02

QC Batch: 080902S1

%Solids: 91.0

Sample Size: 30 g

Primary: Y

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .55 U	.076	.55	1	08/09/02
PCB-1221	< .55 U	.105	.55	1	08/09/02
PCB-1232	< .55 U	.136	.55	1	08/09/02
PCB-1242	< .55 U	.053	.55	1	08/09/02
PCB-1248	1.6	.151	.5494	1	08/09/02
PCB-1254	< .55 U	.1	.55	1	08/09/02
PCB-1260	< .55 U	.065	.55	1	08/09/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	81.		30-150	
Decachlorobiphenyl (surrogate)	76.		30 - 150	

Column Name: DB-608, 30m x .53mm ID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: December 21, 2004

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2925 Sample: W2913

Samp. Description: TB51-2E

Primary column: Y Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 1

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02 QC Batch: 080902S1 %Solids: 88.0

Analyzed: 08/09/02 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< .57	U	1	.07875	.57	
PCB-1221	< .57	U	1	.10807	.57	
PCB-1232	< .57	Ų	1	.14045	.57	
PCB-1242	< .57	U	1	.05455	.57	
PCB-1248	2.6		1	.15648	.5682	б
PCB-1254	< .57	U	1	.10295	.57	
PCB-1260	< .57	U	1	.06716	.57	

Surrogate	Result Qual	Col	Limits Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	78.%	1	30-150
Decachlorobiphenyl (surrogate)	71.%	1	30-150

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 13, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2925 Sample: W2913

Samp. Description: TB51-2E

Primary column N Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 1

Instrument: HP5890-90

### **Analytical Results** Method: 8082

Job No.: 3435, 087, 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S1 %Solids: 88.0

Prepared: 08/09/02 Analyzed: 08/09/02

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< .57	U	2	.07875	.57	
PCB-1221	< .57	U	2	.10807	.57	
PCB-1232	< .57	U	2	.14045	.57	
PCB-1242	< .57	U	2	.05455	.57	
PCB-1248	4.8		2	.17782	.6457	6
PCB-1254	< .57	Ü	2	.10295	.57	
PCB-1260	< .57	U	2	.06716	.57	

Surrogate	Result Qual	Col	Limits Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	84.8	2	30-150
Decachlorobiphenyl (surrogate)	68.%	2	30-150

#### Notes:

6: Altered aroclor.

6; Altered aroclor.

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 22, 2002 Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2914

Samp. Description: TB51-3S

Primary column: Y Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 1

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

08/02 Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02 Analyzed: 08/09/02 QC Batch: 080902S1 %Solids: 75.0

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qua1	Col	MDL	RL	Notes
PCB-1016	< .67	U	1	.0924	.67	
PCB-1221	< .67	U	1	.1268	.67	
PCB-1232	< .67	U	1	.1648	.67	
PCB-1242	< .67	U	1	.064	.67	
PCB-1248	J .27	J	1	.1836	.667	
PCB-1254	< .67	U	1	.1208	.67	
PCB-1260	< .67	U	1	.0788	.67	

Surrogate	Result Qual	Col	Limits Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	90.8	1	30-150
Decachlorobiphenyl (surrogate)	93.8	1	30-150

Notes:

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:\_\_\_

Date: August 13, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2914

Samp. Description: TB51-3S

Primary column: N Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 1 Instrument: HP5890-90

### Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02

Analyzed: 08/09/02

QC Batch: 080902S1

%Solids: 75.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Co1	MDL	RL	Notes
PCB-1016	< .67	U	2	.0924	.67	
PCB-1221	< .67	U	2	.1268	.67	
PCB-1232	< .67	U	2	.1648	.67	
PCB-1242	< .67	ប	2	.064	. 67	
PCB-1248	J .28	J	2	.1836	.667	
PCB-1254	< .67	บ	2	.1208	. 67	
PCB-1260	< .67	U	2	.0788	.67	

Surrogate	Result Qual	Col	Limits Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	96.%	2	30-150
Decachlorobiphenyl (surrogate)	79.%	2	30-150

Notes:

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 13, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2915

Samp. Description: TB51-4W

Primary column: Y Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 1

Instrument: HP5890-90

### Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S1

Prepared: 08/09/02 Analyzed: 08/09/02 %Solids: 84.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< .60	U	1	.0825	.60	
PCB-1221	< .60	U	1	.11321	.60	
PCB-1232	< .60	U	1	.14714	.60	
PCB~1242	1.8		1	.05714	.5952	6
PCB-1248	< .60	U	1	.16393	.60	
PCB-1254	< .60	U	1	.10786	.60	
PCB-1260	< .60	U	1	.07036	.60	

Surrogate	Result Qual	Co1	Limits Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	84.%	1	30-150
Decachlorobiphenyl (surrogate)	86.%	1	30-150

#### Notes:

6: Altered aroclor.

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 13, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2925 Sample: W2915

Samp. Description: TB51-4W

Primary column: N

Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 1

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

08/02 Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02

QC Batch: 080902S1 %Solids: 84.0

Analyzed: 08/09/02 Sa

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< .60	Ŭ	2	.0825	.60	
PCB-1221	< .60	U	2	.11321	.60	
PCB-1232	< .60	U	2	.14714	.60	
PCB-1242	1.6		2	.05714	.5952	
PCB-1248	< .60	U	2	.16393	.60	
PCB-1254	< .60	U	2	.10786	.60	
PCB-1260	< .60	U	2	.07036	.60	

Surrogate	Result Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	90.%	2	30-150	
Decachlorobiphenyl (surrogate)	73.%	2	30-150	

### Notes:

6: Altered aroclor.

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 13, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2916

Samp. Description: TB51-5F

Primary column: Y Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 20 Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Analyzed: 08/12/02

Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02 QC Batch: 080902S1

%Solids: 80.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 12.	U	1	1.7325	12.	
PCB-1221	< 12.	U	1	2.3775	12.	
PCB-1232	< 12.	U	1	3.09	12.	
PCB-1242	< 12.	U	1	1.2	12.	
PCB-1248	74.		1	3.4425	12.5	6
PCB-1254	< 12.	U	1	2.265	12.	
PCB-1260	< 12.	υ	1	1.4775	12.	

Surrogate	Result Qual	Col	Limits Notes	i
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	105.%	1	30-150	38
Decachlorobiphenyl (surrogate)	79.%	1	30-150	38

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted
38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 13, 2002

Thomas Alexander

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Job No.: 3435 087 .66301

Project: GM - Former IFG Facility

Certification NY No.: 10155

Proj. Desc:

 Package#:
 2925

 Sample:
 W2916
 Collected:
 08/08/02
 Matrix:
 Solid

 Samp. Description:
 TB51-5F
 Received:
 08/08/02
 QC Batch:
 080902S1

 Primary column:
 N
 Prepared:
 08/09/02
 %Solids:
 80.0

 Units:
 mg/Kg Dry weight
 Analyzed:
 08/12/02
 Sample Size:
 30 g

Column: DB-1701, 30m x .53mm ID

Dilution: 20 Instrument: HP5890-90 Number of analytes: 7

Parameter	Result	Qual	Col Notes
PCB-1016	< 12.	U	2
PCB-1221	< 12.	U	2
PCB-1232	< 12.	U	2
PCB-1242	< 12.	Ū	2
PCB-1248	76.		2 6
PCB-1254	< 12.	U	2
PCB-1260	< 12.	U	2

Surrogate	Result	Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	113.%	•	2	30-150	38
Decachlorobiphenyl (surrogate)	79.%		2	30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized! Monds d Clefande

Date: August 16, 2002 Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2923

Samp. Description: SS08-1N

Primary column: Y Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 50 Instrument: HP5890-90

### Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S1

Prepared: 08/09/02 %Solids: 92.0 Analyzed: 08/12/02 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 27.	U	1	3.7663	27.	
PCB-1221	< 27.	U	1	5.1685	27.	
PCB-1232	< 27.	U	1	6.7174	27.	
PCB-1242	< 27.	U	1	2.6087	27.	
PCB-1248	130.		1	7.4837	27.173	6
PCB-1254	< 27.	U	1	4.9239	27.	
PCB-1260	< 27.	U	1	3.2120	27.	

Surrogate	Result Qual	Col	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	162.%	1 ‡	<del>‡</del> 30-150		38
Decachlorobiphenyl (surrogate)	77.8	1	30-150		3.8

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted
38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 13, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W 2923

Samp. Description: \$\$08-1N

Primary column N Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 50

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02

QC Batch: 080902S1 %Solids: 92.0

Analyzed: 08/12/02

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	$\mathtt{RL}$	Notes
PCB-1016	< 27.	U	2	3.7663	27.	
PCB-1221	< 27.	U	2	5.1685	27.	
PCB-1232	< 27.	U	2	6.7174	27.	
PCB-1242	< 27.	U	2	2.6087	27.	
PCB-1248	140.		2	7.4837	27.17	6
PCB-1254	< 27.	Ū	2	4.9239	27.	
PCB-1260	< 27.	U	2	3.2120	27.	

Surrogate	Result Qual	Col	Limíts	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	165.%	2 :	# 30-150		38
Decachlorobiphenyl (surrogate)	76.%	2	30-150		38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2924

Samp. Description: SS08-2E

Primary column: Y Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 20 Instrument: HP5890-90

Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S1 %Solids: 92.0

Prepared: 08/09/02 Analyzed: 08/12/02

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL Note:
PCB-1016	< 11.	U	2	1.5065	11.
PCB-1221	< 11.	U	2	2.0674	11.
PCB-1232	< 11.	U	2	2.6870	11.
PCB-1242	< 11.	U	2	1.0435	11.
PCB-1248	76.		2	2.9935	10.8696
PCB-1254	< 11.	U	2	1.9696	11.
PCB-1260	< 11.	U	2	1.2848	11.

Surrogate	Result Qual	Col	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	106.%	2	30-150		38
Decachlorobiphenyl (surrogate)	73.%	2	30-150		38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 13, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2924

Samp. Description: SS08-2E

Primary column: N Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 20

Instrument: HP5890-90

### **Analytical Results Method: 8082**

Job No.: 3435, 087, 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S1

Prepared: 08/09/02 Analyzed: 08/13/02

%Solids: 92.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL Notes
PCB-1016	< 11.	U	1	1.5065	11.
PCB-1221	< 11.	U	1	2.0674	11.
PCB-1232	< 11.	U	1	2.6870	11.
PCB-1242	< 11.	U	1	1.0435	11.
PCB-1248	70.		1	2.9935	10.869 6
PCB-1254	< 11.	U	1	1.9696	11.
PCB-1260	< 11.	U	1	1.2848	11.

Surrogate	Result Qual	Col	Limits Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	101.%	1	30-150	38
Decachlorobiphenyl (surrogate)	79. %	1	30-150	38

### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 13, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2925

Samp. Description: SS08-3S

Primary column: Y Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 10

Instrument: HP5890-90

### Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02

Analyzed: 08/12/02

QC Batch: 080902S1

%Solids: 94.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 5.3	U	1	.73723	5.3	<del></del>
PCB-1221	< 5.3	U	1	1.0117	5.3	
PCB-1232	< 5.3	U	1	1.3149	5.3	
PCB-1242	< 5.3	U	1	.51064	5.3	
PCB-1248	37.		1	1.4649	5.3191	6
PCB-1254	< 5.3	U	1	.96383	5.3	
PCB-1260	< 5.3	U	1	.62872	5.3	

Surrogate	Result Qual	Col	Limits :	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	95.%	1	30-150	38
Decachlorobiphenyl (surrogate)	88.%	1	30-150	38

### Notes:

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 13, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W 2925

Samp. Description: SS08-3S

Primary column N Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 10

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S1

Prepared: 08/09/02 Analyzed: 08/12/02

%Solids: 94.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 5.3	U	2	.73723	5.3	
PCB-1221	< 5.3	U	2	1.0117	5.3	
PCB-1232	< 5.3	U	2	1.3149	5.3	
PCB-1242	< 5.3	U	2	.51064	5.3	
PCB-1248	47.		2	1.4649	5.319	6
PCB-1254	< 5.3	U	2	.96383	5.3	
PCB-1260	< 5.3	U	2	.62872	5.3	

Surrogate	Result Qual	Col	Limits N	otes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	102.%	2	30-150	38
Decachlorobiphenyl (surrogate)	85.%	2	30-150	38

### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2926

Samp. Description: SS08-4W

Primary column: Y Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 20 Instrument: HP5890-90

### Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Analyzed: 08/09/02

Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02

QC Batch: 080902S1 %Solids: 93.0

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL Notes
PCB-1016	< 11.	U	1	1.4903	11.
PCB-1221	< 11.	U	1	2.0452	11.
PCB-1232	< 11.	U	1	2.6581	11.
PCB-1242	< 11.	U	1	1.0323	11.
PCB-1248	18.		1	2.9613	10.752 6
PCB-1254	< 11.	U	1	1.9484	11.
PCB-1260	< 11.	U	1	1.2710	11.

Surrogate	Result Qual	Col	Limits No	tes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	67.%	1	30-150	38
Decachlorobiphenyl (surrogate)	38.%	1	30-150	38

### Notes:

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 13, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2925 Sample: W2926

Samp. Description: SS08-4W

Primary column N

Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 20

Instrument: HP5890-90

### **Analytical Results** Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S1

Prepared: 08/09/02 Analyzed: 08/12/02 %Solids: 93.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 11.	Ü	2	1.4903	11.	
PCB-1221	< 11.	U	2	2.0452	11.	
PCB-1232	< 11.	U	2	2.6581	11.	
PCB-1242	< 11.	U	2	1.0323	11.	
PCB-1248	25.		2	2.9613	10.75	6
PCB-1254	< 11.	U	2	1.9484	11.	
PCB-1260	< 11.	U	2	1.2710	11.	

Surrogate	Result Qual	Col	Limits Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	73.%	2	30-150	38
Decachlorobiphenyl (surrogate)	38.%	2	30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W2927

Samp. Description: SS08-5F

Primary column: Y Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 50 Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Analyzed: 08/12/02

Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02

QC Batch: 080902S1

%Solids: 94.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 27.	U	1	3.6862	27.	
PCB-1221	< 27.	U	1	5.0585	27.	
PCB-1232	< 27.	U	1	6.5745	27.	
PCB-1242	< 27.	U	1	2.5532	27.	
PCB-1248	110.		1	7.3245	26.595	6
PCB-1254	< 27.	U	1	4.8191	27.	
PCB-1260	< 27.	U	1	3.1436	27.	

Surrogate	Result Qual	Col	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	158.%	1 ‡	30-150		38
Decachlorobiphenyl (surrogate)	73.%	1	30-150		38

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted
38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 13, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2925 Sample: W 2927

Samp. Description: SS08-5F

Primary column N Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 50

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02
Prepared: 08/09/02

QC Batch: 080902S1

Prepared: 08/09/02 Analyzed: 08/12/02 %Solids: 94.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 27.	U	2	3.6862	27.	
PCB-1221	< 27.	U	2	5.0585	27.	
PCB-1232	< 27.	U	2	6.5745	27.	
PCB-1242	< 27.	U	2	2.5532	27.	
PCB-1248	130.		2	7.3245	26.59	6
PCB-1254	< 27.	U	2	4.8191	27.	
PCB-1260	< 27.	U	2	3.1436	27.	

Surrogate	Result Qual	Col	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	170.%	2 ‡	30-150		38
Decachlorobiphenyl (surrogate)	72.%	2	30-150		38

### Notes:

6: Altered aroclor.6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2928 Sample: W2957

Samp. Description: TB53-1N

Primary column Y Units: mg/Kg Dry weight

Column: RTXCLP2, 30m x .53mmID

Dilution: 100

Instrument: HP5890-89

### **Analytical Results** Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/12/02 %Solids: 89.0

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PC3-1016	< 56.	U	2	7.7865	56.	
PCB-1221	< 56.	U	2	10.685	56.	
PCB-1232	< 56.	U	2	13.888	56.	
PCB-1242	< 56.	Ü	2	5.3933	56.	
PCB-1248	400.		2	15.472	56.17	6
PCB-1254	< 56.	U	2	10.180	56.	
PCB-1260	< 56.	U	2	6.6404	56.	

Surrogate	Result Qual	Col	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0%	2 #	30-150		38
Decachlorobiphenyl (surrogate)	<0.0%	2 #	30-150		38

#### Notes:

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

<sup>6:</sup> Altered aroclor.

<sup>6:</sup> Altered aroclor.

<sup>38:</sup> Surrogate was diluted

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2928 Sample: W2957

Samp. Description: TB53-1N

Primary column N Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 100

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

lected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S2

Prepared: 08/09/02

%Solids: 89.0 Sample Size: 30 g

Analyzed: 08/15/02

- 5

Number of analytes: 7

Parameter	Result	Qual	Col	MOL	RL	Notes
PCB-1016	< 56.	U	1	7.7865	56.	
PCB-1221	< 56.	Ū	1	10.685	56.	
PCB-1232	< 56.	U	1	13.888	56.	
PCB-1242	< 56.	Ü	1	5.3933	56.	
PCB-1248	370.		1	15.472	56.17	6
PCB-1254	< 56.	Ü	1	10.180	56.	
PCB-1260	< 56.	U	1	6.6404	56.	

Surrogate	Result Qual	Col	Limits 1	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0ৢ	1 #	30-150	38
Decachlorobiphenyl (surrogate)	<0.0%	1 #	30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2928 Sample: W2958

Samp. Description: TB53-2E

Primary column Y Units: mg/Kg Dry weight

Column: RTXCLP2, 30m x .53mmID

Dilution: 100 Instrument: HP5890-89

### Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02 QC Batch: 080902S2

Prepared: 08/09/02 %Solids: 95.0

Prepared: 08/09/02 %Solids: 95.0 Analyzed: 08/12/02 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 53.	Ü	2	7.2947	53.	
PCB-1221	< 53.	U	2	10.011	53.	
PCB-1232	< 53.	U	2	13.011	53.	
PCB-1242	< 53.	U	2	5.0526	53.	
PCB-1248	360.		2	14.495	52.63	6
PCB-1254	< 53.	U	2	9.5368	53.	
PCB-1260	< 53.	U	2	6.2211	53.	

Surrogate	Result Qual	Col	Limits N	otes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0%	2 ‡	<del> </del> 30−150	38
Decachlorobiphenyl (surrogate)	<0.0%	2 🕴	<del> </del> 30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2928 Sample: W 2958

Samp. Description: TB53-2E

Primary column N Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 100

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/15/02 %Solids: 95.0

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 53.	Ü	1	7.2947	53.	
PCB-1221	< 53.	Ü	1	10.011	53.	
PCB-1232	< 53.	Ü	1	13.011	53.	
PCB-1242	< 53.	U	1	5.0526	53.	
PCB-1248	340.		1	14.495	52.63	6
PCB-1254	< 53.	Ü	1	9.5368	53.	
PCB-1260	< 53.	U	1	6.2211	53.	

Surrogate	Result Qual	Col	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0%	1 #	30-150		38
Decachlorobiphenvl (surrogate)	<0.0%	1 #	30-150		38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2928 Sample: W2959

Samp. Description: TB53-3S

Primary column Y
Units: mg/Kg Dry weight

Column: RTXCLP2, 30m x .53mmID

Dilution: 200 Instrument: HP5890-89

### Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/12/02 %Solids: 92.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 110.	Ü	2	15.065	110.	
PCB-1221	< 110.	U	2	20.674	110.	
PCB-1232	< 110.	U	2	26.870	110.	
PCB-1242	< 110.	U	2	10.435	110.	
PCB-1248	1100.		2	29.935	108.6	6
PCB-1254	< 110.	U	2	19.696	110.	
PCB-1260	< 110.	U	2	12.848	110.	

Surrogate	Result Qual	Col	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0%	2 #	30-150		38
Decachlorobiphenyl (surrogate)	<0.0%	2 #	30-150		38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38; Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2928 Sample: W 2959

Samp. Description: TB53-3S

Primary column N Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 200

Instrument: HP5890-90

# Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/15/02 %Solids: 92.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	M-4
PCB-1016	< 110.	U	1			Notes
PCB-1221		_	1	15.065	110.	
	< 110.	Ü	1	20.674	110.	
PCB-1232	< 110.	Ü	1	26.870	110.	
PCB-1242	< 110.	Ū	1	10.435	110	
PCB-1248	910.		1	29.935		6
PCB-1254	< 110.	Ü	1	19.696	110.	
PCB-1260	< 110.	U	1	12.848		

Surrogate	Result Qual	Col	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0%	1 #	30-150		38
Decachlorobiphenyl (surrogate)	<0.0%	1 #	30-150		38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted
38: Surrogate was diluted

# - Outside control limits  $\ U$  - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002 T

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2928 Sample: W 2960

Samp. Description: TB53-4W

Primary column Y

Units: mg/Kg Dry weight Column: RTXCLP2, 30m x .53mmID

Dilution: 100

Instrument: HP5890-89

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/12/02 %Solids: 89.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 56.	Ü	2	7.7865	56.	
PCB-1221	< 56.	U	2	10.685	56.	
PCB-1232	< 56.	U	2	13.888	56.	
PCB-1242	< 56.	υ	2	5.3933	56.	
PCB-1248	410.		2	15.472	56.17	6
PCB-1254	< 56.	U	2	10.180	56.	
PCB-1260	< 56.	Ü	2	6.6404	56.	

Surrogate	Result Qual	Col	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0%	2 #	30-150		38
Decachlorobiphenyl (surrogate)	<0.0%	2 #	30-150		38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2928 Sample: W 2960

Samp. Description: TB53-4W

Primary column N Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 100

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02 QC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/15/02

%Solids: 89.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 56.	U	1	7.7865	56.	
PCB-1221	< 56.	U	1	10.685	56.	
PCB-1232	< 56.	U	1	13.888	56.	
PCB-1242	< 56.	U	1	5.3933	56.	
PCB-1248	340.		1	15.472	56.17	6
PCB-1254	< 56.	U	1	10.180	56.	
PCB-1260	< 56.	U	1	6.6404	56.	

Surrogate	Result Qual	Col	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0%	1 1	30-150		38
Decachlorobiphenyl (surrogate)	<0.0%	1 #	30-150		38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2928 Sample: W2961

Samp. Description: TB53-5F

Primary column Y Units: mg/Kg Dry weight

Column: RTXCLP2, 30m x .53mmID

Dilution: 50

Instrument: HP5890-89

### **Analytical Results** Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

OC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/12/02 %Solids: 93.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MOL	RL	Notes
PCB-1016	< 27.	Ü	2	3.7258	27.	
PCB-1221	< 27.	Ū	2	5.1129	27.	
PCB-1232	< 27.	Ü	2	6.6452	27.	
PCB-1242	< 27.	U	2	2.5806	27.	
PCB-1248	180.		2	7.4032	26.88	6
PCB-1254	< 27.	Ü	2	4.8710	27.	
PCB-1260	< 27.	U	2	3.1774	27.	

Surrogate	Result Qual	Col	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0%	2 ‡	30-150		38
Decachlorobiphenyl (surrogate)	<0.0%	2 #	<b>30-150</b>		38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2928 Sample: W 2961

Samp. Description: TB53-5F

Primary column N Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 50

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02 Received: 08/08/02

Matrix: Solid

QC Batch: 080902S2

Prepared: 08/09/02 %Solids: 93.0 Analyzed: 08/15/02 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 27.	U	1	3.7258	27.	
PCB-1221	< 27.	U	1	5.1129	27.	
PCB-1232	< 27.	U	1	6.6452	27.	
PCB-1242	< 27.	U	1	2.5806	27.	
PCB-1248	140.		1	7.4032	26.88	6
PCB-1254	< 27.	U	1	4.8710	27.	
PCB-1260	< 27.	U	1	3.1774	27.	

Surrogate	Result Qual	Col	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	157.%	1 #	<b>∮</b> 30−150		38
Decachlorobiphenyl (surrogate)	75.%	1	30-150		38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted
38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2928 Sample: W 2962

Samp. Description: SS06-1N

Primary column Y
Units: mg/Kg Dry weight

Column: RTXCLP2, 30m x .53mmID

Dilution: 20

Instrument: HP5890-89

### Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/12/02 %Solids: 93.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 11.	U	2	1.4903	11.	
PCB-1221	< 11.	U	2	2.0452	11.	
PCB-1232	< 11.	U	2	2.6581	11.	
PCB-1242	< 11.	U	2	1.0323	11.	
PCB-1248	98.		2	2.9613	10.75	6
PCB-1254	< 11.	U	2	1.9484	11.	
PCB-1260	< 11.	υ	2	1.2710	11.	

Surrogate	Result Qual	Col	Limits Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	113.%	2	30~150	38
Decachlorobiphenyl (surrogate)	100.%	2	30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2928 Sample: W 2962

Samp. Description: SS06-1N

Primary column N

Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID Dilution: 20 Instrument:

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02 Prepared: 08/09/02 QC Batch: 080902S2 %Solids: 93.0

Analyzed: 08/15/02 S

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 11.	U	1	1.4903	11.	
PCB-1221	< 11.	U	1	2.0452	11.	
PCB-1232	< 11.	U	1	2.6581	11.	
PCB-1242	< 11.	U	1	1.0323	11.	
PCB-1248	79.		1	2.9613	10.75	6
PCB-1254	< 11.	U	1	1.9484	11.	
PCB-1260	< 11.	U	1	1.2710	11.	

Surrogate	Result Qual	Col	Limits No	tes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	108.%	1	30-150	38
Decachlorobiohenvl (surrogate)	96.%	1	30-150	38

#### Notes:

- 6: Altered aroclor.
- 6: Altered aroclor.
- 38: Surrogate was diluted
- 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2928 Sample: W2963

Samp. Description: \$\$06-2E

Primary column Y Units: mg/Kg Dry weight

Column: RTXCLP2, 30m x .53mmID

Dilution: 5

Instrument: HP5890-89

## Analytical Results Method: 8082

Job No.: 3435, 087, 66301 Certification NY No.: 10155

Collected: 08/08/02

2

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S2

Prepared: 08/09/02

%Solids: 93.0

Analyzed: 08/12/02

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MOL	RL	Notes
PCB-1016	< 2.7	Ü	2	.37258	2.7	
PCB-1221	< 2.7	Ü	2	.51129	2.7	
PCB-1232	< 2.7	Ü	2	.66452	2.7	
PCB-1242	< 2.7	Ü	2	.25806	2.7	
PCB-1248	17.		2	.74032	2.688	6
PCB~1254	< 2.7	U	2	.48710	2.7	
PCB-1260	< 2.7	U	2	.31774	2.7	

Surrogate	Result Qual	Col	Limits Note	s
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	110.%	2	30-150	38
Decachlorobiphenyl (surrogate)	109.%	2	30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2928 Sample: W2963

Samp. Description: \$\$06-2E

Primary column N Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 5

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 .087 .66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/15/02 %Solids: 93.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 2.7	U	1	.37258	2.7	
PCB-1221	< 2.7	U	1	.51129	2.7	
PCB-1232	< 2.7	U	1	.66452	2.7	
PCB-1242	< 2.7	U	1	.25806	2.7	
PCB-1248	12.		1	.74032	2.688	6
PCB-1254	< 2.7	U	1	.48710	2.7	
PCB-1260	< 2.7	U	1	.31774	2.7	

Surrogate	Result Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	83.%	1	30-150	38
Decachlorobiphenyl (surrogate)	89.%	1	30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted
38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2928 Sample: W2964

Samp. Description: SS06-3S

Primary column Y Units: mg/Kg Dry weight

Column: RTXCLP2, 30m x .53mmID

Dilution: 5

Instrument: HP5890-89

### **Analytical Results** Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/12/02 %Solids: 92.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 2.7	U	2	.37663	2.7	
PCB-1221	< 2.7	U	2	.51685	2.7	
PCB-1232	< 2.7	U	2	.67174	2.7	
PCB-1242	< 2.7	U	2	.26087	2.7	
PCB-1248	23.		2	.74837	2.717	6
PCB-1254	< 2.7	U	2	.49239	2.7	
PCB-1260	< 2.7	U	2	.32120	2.7	

Surrogate	Result Qual	Col	Limits Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	111.%	2	30-150	38
Decachlorobiphenyl (surrogate)	112.%	2	30-150	38

#### Notes:

- 6: Altered aroclor.
- 6: Altered aroclor.
- 38: Surrogate was diluted
- 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2928 Sample: W 2964

Samp. Description: SS06-3S

Primary column N Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 5

Instrument: HP5890-90

# Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/15/02 %Solids: 92.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 2.7	Ü	1	.37663		1.0 000
PCB-1221	< 2.7	Ü	1	.51685		
PCB-1232	< 2.7	Ü	1	.67174		
PCB-1242	< 2.7	U	1	.26087	_ •	
PCB-1248	17.		1	.74837	2.717	6
PCB-1254	< 2.7	U	1	.49239		J
PCB-1260	< 2.7	U	1	.32120		

Surrogate	Result Qual	Col	Limits Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	83.%	1	30-150	38
Decachlorobiphenyl (surrogate)	90.%	1	30-150	38

#### Notes:

6; Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted
38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2928 Sample: W 2965

Samp. Description: SS06-4W

Primary column Y

Units: mg/Kg Dry weight

Column: RTXCLP2, 30m x .53mmID

Dilution: 50

Instrument: HP5890-89

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/12/02 %Solids: 92.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 27.	Ü	2	3.7663	27.	
PCB-1221	< 27.	U	2	5.1685	27.	
PCB-1232	· < 27.	Ü	2	6.7174	27.	
PCB-1242	< 27.	Ū	2	2.6087	27.	
PCB-1248	210.		2	7.4837	27.17	6
PCB-1254	< 27.	U	2	4.9239	27.	
PCB-1260	< 27.	Ü	2	3.2120	27.	

Surrogate	Result Qual	Col Limits Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0%	2 # 30-150	38
Decachlorobiphenyl (surrogate)	<0.0%	2 # 30-150	38

#### Notes:

- 6: Altered aroclor.
- 6: Altered aroclor.
- 38: Surrogate was diluted
  38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Authorized:

Date: August 16, 2002

Thomas Alexander

\_\_\_\_,

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2928

Sample: W2965

Samp. Description: SS06-4W

Primary column N Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 50

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S2

Prepared: 08/09/02

%Solids: 92.0

Analyzed: 08/15/02

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 27.	Ŭ	1	3.7663	27.	
PCB-1221	< 27.	Ü	1	5.1685	27.	
PCB-1232	< 27.	Ü	1	6.7174	27.	
PCB-1242 ,	< 27.	Ü	1	2.6087	27.	
PCB-1248	180.		1	7.4837	27.17	6
PCB-1254	< 27.	Ü	1	4.9239	27.	
PCB-1260	< 27.	U	1	3.2120	27.	

Surrogate	Result Qual	Col	Limits Note	<u>∍s</u>
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	161.%	1 #	30-150	38
Decachlorobiphenyl (surrogate)	85.%	1	30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2928 Sample: W2966

Samp. Description: SS06-5F

Primary column Y

Units: mg/Kg Dry weight

Column: RTXCLP2, 30m x .53mmID Dilution: 1

Instrument: HP5890-89

### **Analytical Results** Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Received: 08/08/02

Matrix: Solid

QC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/12/02

%Solids: 92.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< .54	Ü	2	.07533	.54	
PCB-1221	< .54	Ü	2	.10337	.54	
PCB-1232	< .54	Ü	2	.13435	.54	
PCB-1242	< .54	Ü	2	.05217	.54	
PCB-1248	J .41 -	J	2	.14967	.543	6
PCB-1254	< .54	U	2	.09848	.54	
PC3-1260	< .54	Ü	2	.06424	.54	

Surrogate	Result Qual_	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	104.%	2	3 <b>0</b> -150	
Decachlorobiphenyl (surrogate)	113.%	2	30-150	

#### Notes:

6: Altered aroclor.

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc: Package#: 2928 Sample: W 2966

Samp. Description: SS06-5F

Primary column N
Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 1

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02 Received: 08/08/02 Matrix: Solid

/02 QC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/15/02 %Solids: 92.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< .54	U	1	.07533	.54	
PCB-1221	< .54	U	1	.10337	.54	
PCB-1232	< .54	U	1	.13435	.54	
PCB-1242	< .54	U	1	.05217	.54	
PCB-1248	J .51 ·	J	1	.14967	.543	
PCB-1254	< .54	U	1	.09848	.54	
PCB-1260	< .54	Ū	1	.06424	.54	

Surrogate	Result Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	88.%	1	30-150	
Decachlorobiphenyl (surrogate)	94.%	1	30-150	

#### Notes:

6: Altered aroclor.

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Authorized

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2928 Sample: W2967

Samp. Description: FD#2 🥌 🗇

Primary column Y Units: mg/Kg Dry weight

Column: RTXCLP2, 30m x .53mmID

Dilution: 20

Instrument: HP5890-89

#### **Analytical Results** Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/13/02 %Solids: 92.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	$\mathtt{RL}$	Notes
PCB-1016	< 11.	U	2	1.5065	11.	
PCB-1221	< 11.	U	2	2.0674	11.	
PCB-1232	< 11.	U	2	2.6870	11.	
PCB-1242	< 11.	U	2	1.0435	11.	
PCB-1248	55. ·		2	2.9935	10.86	6
PCB-1254	< 11.	U	2	1.9696	11.	
PCB-1260	< 11.	U	2	1.2848	11.	
Surrogate	Result	Qual	Col	Limits	Notes	

Surrogate	Result Qual	Col	Limits R	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	89.%	2	30-150	38
Decachlorobiphenyl (surrogate)	75.%	2	30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Date: August 16, 2002

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:-Package#: 2928 Sample: W 2967

Samp. Description: FD#2

Primary column N Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 20

Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 . 087 . 66301 Certification NY No.: 10155

Collected: 08/08/02

Matrix: Solid

Received: 08/08/02

QC Batch: 080902S2

Prepared: 08/09/02 Analyzed: 08/15/02 %Solids: 92.0

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col	MDL	RL	Notes
PCB-1016	< 11.	Ü	1	1.5065	11.	
PCB-1221	< 11.	Ü	1	2.0674	11.	
PCB-1232	< 11.	U	1	2.6870	11.	
PCB-1242	< 11.	U	1	1.0435	11.	
PCB-1248	49,-		1	2.9935	10.86	6
PCB-1254	< 11.	U	1	1.9696	11.	
PCB-1260	< 11.	U	1	1.2848	11.	

Surrogate	Result Qual	Col	Limits No	tes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	108.%	1	30-150	<del></del> 38
Decachlorobiphenyl (surrogate)	95.%	1	30-150	38

#### Notes:

- 6: Altered aroclor.
- 6: Altered aroclor.
- 38: Surrogate was diluted
- 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Date: August 16, 2002

Thomas Alexander

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2895 Sample: W2619

Samp. Description: NW-DP2-N1

Primary column: Y Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 10

Instrument: HP5890-90

Job No.: 3435 087 .66301 Certification NY No.: 10155

Collected: 08/05/02

Received: 08/05/02 Prepared: 08/06/02

QC Batch: 080602S1 %Solids: 87.0

Analyzed: 08/08/02

Sample Size: 30 g

Matrix: Solid

Number of analytes: 7

Parameter	Result	Qual	Col Notes
PCB-1016	< 5.7	Ü	1
PCB-1221	< 5.7	U	1
PCB-1232	< 5.7	U	1
PCB-1242	< 5.7	U	1
PCB-1248	14.		1
PCB-1254	< 5.7	U	1
PCB-1260	< 5.7	U	1

Surrogate	Result	Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	93.%		1	30-150	38
Decachlorobiphenyl (surrogate)	96.%		1	30-150	38

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 15, 2002

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.
Project: GM - Former IFG Facility

Job No.: 3435 087.66301 Certification NY No.: 10155

Prepared: 08/06/02 Analyzed: 08/08/02

Proj. Desc:

Package#: 2895 Sample: W2619

Sample: W2619 Collected: 08/05/02 Samp. Description: NW-DP2-N1 Received: 08/05/02 Matrix: Solid QC Batch: 080602S1 %Solids: 87.0

Primary column: N Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 10 Instrument: HP5890-90

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col Notes
PCB-1016	< 5.7	U	2
PCB-1221	< 5.7	U	2
PCB-1232	< 5.7	U	2
PCB-1242	< 5.7	U	2
PCB-1248	17.		2
PCB-1254	< 5.7	U	2
PCB-1260	< 5.7	U	2

Surrogate	Result	Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	100.%		2	30-150	38
Decachlorobiphenyl (surrogate)	90.%		2	30-150	38

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 15, 2002

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2895 Sample: W2620

Samp. Description: NW-DP2-N2

Primary column: Y Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 10

Instrument: HP5890-90

### **Analytical Results Method: 8082**

Job No.: 3435 087 66301 Certification NY No.: 10155

Collected: 08/05/02 Received: 08/05/02

QC Batch: 080602S1 Prepared: 08/06/02 %Solids: 85.0

Sample Size: 30 g Analyzed: 08/08/02

Number of analytes: 7

Matrix: Solid

Result	Qual	Col Notes
< 5.9	Ü	1
< 5.9	U	1
< 5.9	U	1
< 5.9	U	1
11.		1
< 5.9	U	1 .
< 5.9	U	1
	< 5.9 < 5.9 < 5.9 < 5.9 11. < 5.9	< 5.9 U 11. < 5.9 U

Surrogate	Result	Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	94.8		1	30-150	38
Decachlorobiphenyl (surrogate)	95.%		1	30-150	38

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 15, 2002

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2895 Sample: W2620

Samp. Description: NW-DP2-N2

Primary column: N Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 10

Instrument: HP5890-90

Job No.: 3435 087 .66301 Certification NY No.: 10155

Collected: 08/05/02

Received: 08/05/02

Prepared: 08/06/02 Analyzed: 08/08/02 Matrix: Solid

QC Batch: 080602S1 %Solids: 85.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col Notes
PCB-1016	< 5.9	Ü	2
PCB-1221	< 5.9	U	2
PCB-1232	< 5.9	U	2
PCB-1242	< 5.9	U	2
PCB-1248	13.		2
PCB-1254	< 5.9	Ü	2
PCB-1260	< 5.9	U	2

Surrogate	Result	Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	100.%		2	30-150	38
Decachlorobiphenyl (surrogate)	90.%		2	30-150	38

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 15, 2002

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.
Project: GM - Former IFG Facility

Job No.: 3435 087 .66301 Certification NY No.: 10155

Proj. Desc:

Package#: 2895 Sample: W2621 Samp. Description: NW-DP2-E1

Dilution: 10

Collected: 08/05/02 Received: 08/05/02

Matrix: Solid QC Batch: 080602S1

Primary column: Y

Prepared: 08/06/02 Analyzed: 08/08/02 %Solids: 86.0 Sample Size: 30 g

Units: mg/Kg Dry weight Column: DB-608, 30m x .53mm ID

Instrument: HP5890-90

Number of analytes: 7

Parameter	Result	Qual	Col Notes
PCB-1016	< 5.8	U	1
PCB-1221	< 5.8	U	1
PCB-1232	< 5.8	U	1
PCB-1242	< 5.8	U	1
PCB-1248	30.		1
PCB-1254	< 5.8	U	1
PCB-1260	< 5.8	U	1

Surrogate	Result	Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	93.%		1	30-150	38
Decachlorobiphenyl (surrogate)	92.8		1	30-150	38

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:\_\_\_\_

Date: August 15, 2002

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.
Project: GM - Former IFG Facility

Job No.: 3435 087 .66301 Certification NY No.: 10155

Proj. Desc:

Package#: 2895 Sample: W2621

Collected: 08/05/02

Matrix: Solid

Samp. Description: NW-DP2-E1

2-E1 Received: 08/05/02

QC Batch: 080602S1 %Solids: 86.0

Primary column: N Units: mg/Kg Dry weight

Prepared: 08/06/02 Analyzed: 08/08/02 %Solids: 86.0 Sample Size: 30 g

Column: DB-1701, 30m x .53mm ID

Dilution: 10 Instrument: HP5890-90

Number of analytes: 7

Parameter	Result	Qual	Col Notes
PCB-1016	< 5.8	U	2
PCB-1221	< 5.8	U	2
PCB-1232	< 5.8	U	2
PCB-1242	< 5.8	υ	2
PCB-1248	31.		2
PCB-1254	< 5.8	U	2
PCB-1260	< 5.8	U	2

Surrogate	Result Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	99.8	2	30~150	38
Decachlorobiphenyl (surrogate)	88.%	2	30-150	38

#### Notes:

38: Surrogate was diluted
38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 15, 2002

ient: O'Brien & Gere Engineers, Inc.

Method: 8082

Job No.: 3435 087 66301

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former IFG Facility

Certification NY No.: 10155

Proj. Desc: Package#: 2895 Sample: W2622

Sample: W2622 Collected: 08/05/02 Matrix: Solid
Samp. Description: NW-DP2-E2 Received: 08/05/02 QC Batch: 080602S1
Primary column: Y Prepared: 08/06/02 %Solids: 89.0
Units: mg/Kg Dry weight Analyzed: 08/12/02 Sample Size: 30 g

Column: DB-608, 30m x .53mm ID

Dilution: 1 Instrument: HP5890-90

Number of analytes: 7

**Analytical Results** 

Parameter	Result	Qual	Col Notes
PCB-1016	< .56	υ	1
PCB-1221	< .56	U	1
PCB-1232	< .56	U	1
PCB-1242	< .56	Ū	1
PCB-1248	3.2		1
PCB-1254	< .56	U	1
PCB-1260	< .56	U	1

Surrogate	Result	Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	89.%		1	30-150	
Decachlorobiphenyl (surrogate)	85.%		1	30 - 1.50	

Notes:

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 15, 2002

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Job No.: 3435 087 .66301 Certification NY No.: 10155

Proj. Desc:

Package#: 2895 Sample: W2622

Collected: 08/05/02 Received: 08/05/02 Matrix: Solid

Samp. Description: NW-DP2-E2 Primary column: N

OC Batch: 080602S1 %Solids: 89.0

Units: mg/Kg Dry weight

Prepared: 08/06/02 Analyzed: 08/12/02

Sample Size: 30 g

Column: DB-1701, 30m x .53mm ID

Dilution: 1

Instrument: HP5890-90

Number of analytes: 7

Parameter	Result	Qual	Col Notes
PCB-1016	< .56	U	2
PCB-1221	< .56	Ü	2
PCB-1232	< .56	U	2
PCB-1242	< .56	U	2
PCB-1248	3.6		2
PCB-1254	< .56	U	2
PCB-1260	< .56	U	2

Surrogate	Result	Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	93.%		2	30-150	
Decachlorobiphenyl (surrogate)	78.%		2	30-150	

Notes:

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 15, 2002

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.
Project: GM - Former IFG Facility

Job No.: 3435 087 .66301 Certification NY No.: 10155

Collected: 08/05/02

Received: 08/05/02

Prepared: 08/06/02

Analyzed: 08/08/02

Proj. Desc:

Package#: 2895 Sample: W2617

Sample: W2617
Samp. Description: NW-DP2-S

Matrix: Solid
QC Batch: 080602S1
%Solids: 91.0
Sample Size: 30 g

Primary column: Y
Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 1

Instrument: HP5890-90

Number of analytes: 7

Parameter	Result	Qual	Col Notes
PCB-1016	< .55	U	1
PCB-1221	< .55	U	1
PCB-1232	< .55	U	1
PCB-1242	< .55	U	1
PCB-1248	2.9		1 6
PCB-1254	< .55	U	1
PCB-1260	< .55	Ū	1

Surrogate	Result	Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	91.%	, ,	1	30-150	
Decachlorobiphenyl (surrogate)	93.%		1	30-150	

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 15, 2002

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.
Project: GM - Former IFG Facility

Job No.: 3435 087 .66301 Certification NY No.: 10155

Proj. Desc:

Package#: 2895 Sample: W2617

Collected: 08/05/02

Matrix: Solid

Samp. Description: NW-DP2-S Primary column: N

Received: 08/05/02 Prepared: 08/06/02 Analyzed: 08/08/02

QC Batch: 080602S1 %Solids: 91.0 Sample Size: 30 g

Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 1

Instrument: HP5890-90

Number of analytes: 7

Parameter	Result	Qual	Col Notes
PCB-1016	< .55	Ū	2
PCB-1221	< .55	U	2
PCB-1232	< .55	Ü	2
PCB-1242	< .55	บ	2
PCB-1248	3.9		2 6
PCB-1254	< .55	U	2
PCB-1260	< .55	U	2

Surrogate	Result	Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	94.8		2	30-150	
Decachlorobiphenyl (surrogate)	85.%		2	30-150	

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:	
Date: August 15, 2002	Thomas Alexander

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Job No.: 3435 087 .66301 Certification NY No.: 10155

Proj. Desc:

Package#: 2895 Sample: W2618

Primary column: Y

Samp. Description: NW-DP2-W

Collected: 08/05/02 Received: 08/05/02 Prepared: 08/06/02 Analyzed: 08/08/02 Matrix: Solid QC Batch: 080602S1 %Solids: 88.0

Sample Size: 30 g

Units: mg/Kg Dry weight Column: DB-608, 30m x .53mm ID

Dilution: 10

Instrument: HP5890-90

Number of analytes: 7

Parameter	Result	Qual	Col Notes
PCB-1016	< 5.7	U	1
PCB-1221	< 5.7	U	1
PCB-1232	< 5.7	IJ	1
PCB-1242	< 5.7	U	1
PCB-1248	7.4		1
PCB-1254	< 5.7	U	1
PCB-1260	< 5.7	U	1

Surrogate	Result	Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	90.8		1	30-150	38
Decachlorobiphenyl (surrogate)	92.8		1	30-150	38

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:\_\_

Date: August 15, 2002

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Job No.: 3435 087 .66301 Certification NY No.: 10155

Proj. Desc:

Package#: 2895 Sample: W2618

Collected: 08/05/02

Matrix: Solid

Samp. Description: NW-DP2-W Primary column: N

Received: 08/05/02 Prepared: 08/06/02 QC Batch: 080602S1 %Solids: 88.0

Units: mg/Kg Dry weight

Analyzed: 08/08/02

Sample Size: 30 g

Column: DB-1701, 30m x .53mm ID

Dilution: 10 Instrument: HP5890-90 Number of analytes: 7

Parameter	Result	Qual	Col Notes
PCB-1016	< 5.7	Ū	2
PCB-1221	< 5.7	U	2
PCB-1232	< 5.7	U	2
PCB-1242	< 5.7	Ü	2
PCB-1248	8.7		2
PCB-1254	< 5.7	U	2
PCB-1260	< 5.7	U	2

Surrogate	Result Qual	. Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	97.8	2	30-150	38
Decachlorobiphenyl (surrogate)	87.%	2	30-150	38

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized: Date: August 15, 2002 Thomas Alexander

Client: O'Brien & Gere Engineers, Inc.
Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2895 Sample: W2623

Samp. Description: NW-DP2-B1 Primary column: Y

Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 10 Instrument: HP5890-90

## Analytical Results Method: 8082

Job No.: 3435 087 .66301 Certification NY No.: 10155

Collected: 08/05/02

Received: 08/05/02 Prepared: 08/06/02 Analyzed: 08/12/02 Matrix: Solid QC Batch: 080602S1 %Solids: 80.0

Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col Notes
PCB-1016	< 6.2	Ü	1
PCB-1221	< 6.2	U	1
PCB-1232	< 6.2	U	1
PCB-1242	< 6.2	Ü	1
PCB-1248	21.		1
PCB-1254	< 6.2	υ	1
PCB-1260	< 6.2	U	1

Surrogate	Result Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	97.%	1	30-150	38
Decachlorobiphenyl (surrogate)	94.%	1	30-150	38

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:\_

Date: August 15, 2002

**Analytical Results** Method: 8082

Prepared: 08/06/02

Analyzed: 08/12/02

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Job No.: 3435 087 .66301 Certification NY No.: 10155

Proj. Desc:

Package#: 2895 Sample: W2623

Collected: 08/05/02 Samp. Description: NW-DP2-B1 Received: 08/05/02 Matrix: Solid QC Batch: 080602S1 %Solids: 80.0 Sample Size: 30 g

Primary column: N Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Dilution: 10 Instrument: HP5890-90 Number of analytes: 7

Parameter	Result	Qual	Col Notes
PCB-1016	< 6.2	U	2
PCB-1221	< 6.2	U	2
PCB-1232	< 6.2	U	2
PCB-1242	< 6.2	U	2
PCB-1248	24.		2
PCB-1254	< 6.2	U	2
PCB-1260	< 6.2	Ü	2

Surrogate	Result	Qual	Col_	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	103.%		2	30-150	38
Decachlorobiphenyl (surrogate)	88.%		2	30-150	38

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 15, 2002

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Proj. Desc:

Package#: 2895 Sample: W2624

Samp. Description: NW-DP2-B2

Primary column: Y Units: mg/Kg Dry weight

Column: DB-608, 30m x .53mm ID

Dilution: 1

Instrument: HP5890-90

### **Analytical Results** Method: 8082

Job No.: 3435 087 .66301

Certification NY No.: 10155

Collected: 08/05/02

Matrix: Solid QC Batch: 080602S1

Received: 08/05/02 Prepared: 08/06/02 Analyzed: 08/12/02

%Solids: 87.0 Sample Size: 30 g

Number of analytes: 7

Parameter	Result	Qual	Col Notes
PCB-1016	< .57	Ū	1
PCB-1221	< .57	U	1
PCB-1232	< .57	U	1
PCB-1242	< .57	ū	1
PCB-1248	3.1		1
PCB-1254	< .57	ū	1
PCB-1260	< .57	U	1

Surrogate	_Result Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	93.%	1	30-150	
Decachlorobiphenyl (surrogate)	91.%	1	30-150	

Notes:

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: August 15, 2002

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former IFG Facility

Job No.: 3435 087 .66301 Certification NY No.: 10155

Proj. Desc:

Package#: 2895 Sample: W2624

Collected: 08/05/02

Matrix: Solid

Samp. Description: NW-DP2-B2

Received: 08/05/02 Prepared: 08/06/02

QC Batch; 080602S1 %Solids: 87.0

Primary column: N Units: mg/Kg Dry weight

Column: DB-1701, 30m x .53mm ID

Analyzed: 08/12/02

Sample Size: 30 g

Dilution: 1

Instrument: HP5890-90

Number of analytes: 7

Parameter	Result	Qual	Col Notes
PCB-1016	< .57	U	2
PCB-1221	< .57	Ü	2
PCB-1232	< .57	U	2
PCB-1242	< .57	U	2
PCB-1248	3.6		2
PCB-1254	< .57	U	2
PCB-1260	< .57	U	2

Surrogate	Result	Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	99.%		2	30-150	
Decachlorobiphenyl (surrogate)	85.%		2	30-150	

Notes:

# - Outside control limits U - Undetected at the reported level.

J - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:\_

Date: August 15, 2002

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529

Sample: X 5917

Number of analytes: 7

Sample Description: T4-1-4W-2

Instrument:

Units: mg/Kg Dry weight

HP5890-89

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435, 006.62201

Certification NY No.: 10155

Collected:

Received:

Prepared:

10/10/02

Matrix: Solid

10/10/02 10/11/02

QC Batch: 101102S3

%Solids: 82.0

Sample Size: 30 g

Primary: Y

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .61 U	.085	.61	1	10/16/02
PCB-1221	< .61 U	.12	.61	1	10/16/02
PCB-1232	< .61 U	.15	.61	1	10/16/02
PCB-1242	< .61 U	.059	.61	1	10/16/02
PCB-1248	.32	.17	.61	1	10/16/02 6
PCB-1254	< .61 U	.11	.61	1	10/16/02
PCB-1260	< .61 U	.072	.61	1	10/16/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	79.		30-150	
Decachlorobiphenyl (surrogate)	71.		30-150	

#### Notes:

6 : Altered aroclor. : Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529 Sample: X 5917

Sample Description: T4-1-4W-2

Instrument:

HP5890-89

Number of analytes: 7

Units: mg/Kg Dry weight

Collected:

10/10/02

10/11/02

Matrix: Solid

Job No.: 3435 . 006 . 62201

Certification NY No.: 10155

Received: 10/10/02 Prepared:

QC Batch: 101102S3

%Solids: 82.0

Sample Size: 30 g

Primary: N

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .61 U	.085	.61	1	10/16/02
PCB-1221	< .61 U	.12	.61	1	10/16/02
PCB-1232	< .61 U	.15	.61	1	10/16/02
PCB-1242	< .61 U	.059	.61	1	10/16/02
PCB-1248	.29	.17	.61	1	10/16/02 6
PCB-1254	< .61 U	.11	.61	1	10/16/02
PCB-1260	< .61 U	.072	.61	1.	10/16/02

	•		%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	83.		30 - 150	
Decachlorobiphenyl (surrogate)	80.		30 - 150	

Column Name: RTXCLP2, 30m x .53mmID

#### Notes:

6 : Altered aroclor. : Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

GM - SPDES Treatment System IRM

Project:

Proj. Desc:

Package#: 3529 Samole: X 5906

Sample Description: TB51-5F-2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Collected:

10/10/02

Matrix: Solid

Received: 10/10/02 Prepared: 10/11/02

QC Batch: 101102S3

%Solids: 51.0 Sample Size: 30 g

Job No.: 3435, 006, 62201

Certification NY No.: 10155

Primary: Y

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .98 U	.14	.98	1	10/16/02
PCB-1221	< .98 U	.19	.98	1	10/16/02
PCB-1232	< .98 U	.24	.98	1	10/16/02
PCB-1242	2.9	.094	.98	1	10/16/02
PCB-1248	< .98 U	.27	.98	1	10/16/02
PCB-1254	< .98 U	.18	.98	1	10/16/02
PCB-1260	< .98 U	.12	.98	1	10/16/02

Surrogate	%R			
	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	47.		30-150	
Decachlorobiphenyl (surrogate)	54.		30-150	

Column Name: RTXCLP, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: December 21, 2004

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc. Job No.: 3435, 006, 62201 GM - SPDES Treatment System IRM Project: Certification NY No.: 10155

Proj. Desc:

Package#: 3529

10/10/02 Matrix: Solid Collected: X 5906 Sample:

Received: 10/10/02 QC Batch: 101102S3 Sample Description: TB51-5F-2 Prepared: 10/11/02 Instrument: HP5890-89 %Solids: 51.0

Units: mg/Kg Dry weight Sample Size: 30 g

Column Name: RTXCLP2, 30m x .53mmID Number of analytes: 7 Primary: N

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .98 U	.14	98	1	10/16/02
PCB-1221	< .98 U	.19	.98	1	10/16/02
PCB-1232	< .98 U	.24	.98	1	10/16/02
PCB-1242	2.6	.094	.98	1	10/16/02
PCB-1248	< .98 U	.27	.98	1	10/16/02
PCB-1254	< .98 U	.18	.98	1	10/16/02
PCB-1260	< .98 U	.12	.98	1	10/16/02

	% <b>R</b>					
Surrogate	%R	Qual	Limits	Notes		
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	47.		30-150			
Decachlorobiphenyl (surrogate)	57.		30-150			

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: December 21,

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

GM - SPDES Treatment System IRM Project:

Proj. Desc:

Package#: 3529 Sample: X 5907

Sample Description: SS08-1N-2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435.006.62201 Certification NY No.: 10155

10/10/02 Collected:

10/11/02

Matrix: Solid

Received: 10/10/02 Prepared:

QC Batch: 101102S3

%Solids: 87.0

Sample Size: 30 g

Primary: Y

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 29. U	4.0	29	50	10/15/02
PCB-1221	< 29. U	5.5	29	50	10/15/02
PCB-1232	< 29. U	7.1	29	50	10/15/02
PCB-1242	< 29. U	2.8	29	50	10/15/02
PCB-1248	210.	7.9	29	50	10/15/02 6
PCB-1254	< 29. U	5.2	29	50	10/15/02
PCB-1260	< 29. U	3.4	29	50	10/15/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	65.	•	30-150	38
Decachlorobiphenyl (surrogate)	83.		30 - 150	38

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6 : Altered aroclor. Altered aroclor. б

: Surrogate was diluted Surrogate was diluted 38

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

Thomas Alexander

Momes a Alejanda

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529 Sample:

Sample Description: SS08-1N-2

HP5890-89 Instrument: mg/Kg Dry weight Units:

Number of analytes: 7

X 5907

Column Name: RTXCLP2, 30m x .53mmID

Job No.: 3435.006.62201 Certification NY No.: 10155

Collected: 10/10/02 Matrix: Solid Received: 10/10/02 QC Batch: 101102S3

Prepared: 10/11/02 %Solids: 87.0

Sample Size: 30 g

Primary: N

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 29. U	4.0 2	9	50	10/15/02
PCB-1221	< 29. U	5.5 2	9	50	10/15/02
PCB-1232	< 29. U	7.1 2	9	50	10/15/02
PCB-1242	< 29. U	2.8 2	9	50	10/15/02
PCB-1248	250.	7.9 2	9	50	10/15/02 6
PCB-1254	< 29. U	5.2 2	9	50	10/15/02
PCB-1260	< 29. U	3.4 2	9	50	10/15/02

			%R		
Surrogate	%R	Qual	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	83.		30 - 150	38	
Decachlorobiphenyl (surrogate)	30.		30 - 150	38	

#### Notes:

6 : Altered aroclor. 6 : Altered aroclor.

Surrogate was diluted 38 38 Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529 Sample: X 5909

Sample Description: SS08-2E-2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Units: mg/Kg Dry weig Number of analytes: 7 Job No.: 3435 . 006 . 62201 Certification NY No.: 10155

Collected: 10/10/02 Matrix: Solid Received: 10/10/02 QC Batch: 101102S3

Prepared: 10/11/02 %

%Solids: 90.0 Sample Size: 30 g

Primary: Y

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 11. U	1.5	11	20	10/15/02
PCB-1221	< 11. U	2.1	11	20	10/15/02
PCB-1232	< 11. U	2.7	11	20	10/15/02
PCB-1242	< 11. U	1.1	11	20	10/15/02
PCB-1248	34.	3.1	11	20	10/15/02 6
PCB-1254	< 11. U	2.0	11	20	10/15/02
PCB-1260	< 11. U	1.3	11	20	10/15/02

		%R			
Surrogate	%R	Qual	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	84.		30 - 150	38	
Decachlorobiphenyl (surrogate)	89.		30-150	38	

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6 : Altered aroclor.6 : Altered aroclor.

38 : Surrogate was diluted38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:\_

Date: December 21, 2004

**Analytical Results Method: 8082** 

Job No.: 3435, 006, 62201

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529

Sample: X 5909 Collected: 10/10/02 Matrix: Solid

 Sample Description:
 SS08-2E-2
 Received:
 10/10/02
 QC Batch:
 101102S3

 Instrument:
 HP5890-89
 Prepared:
 10/11/02
 %Solids:
 90.0

Units: mg/Kg Dry weight Sample Size: 30 g

Number of analytes: 7 Column Name: RTXCLP2, 30m x .53mmID Primary: N

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 11. U	1.5	11	20	10/15/02
PCB-1221	< 11. U	2.1	11	20	10/15/02
PCB-1232	< 11. U	2.7	11	20	10/15/02
PCB-1242	< 11. U	1.1	11	20	10/15/02
PCB-1248	45.	3.1	11	20	10/15/02 6
PCB-1254	< 11. U	2.0	11	20	10/15/02
PCB-1260	< 11. U	1.3	11	20	10/15/02

	%R					
Surrogate	%R	Qual	Limits	Notes		
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	98.		30 - 150	38		
Decachlorobiphenyl (surrogate)	82.		30 - 150	38		

#### Notes:

6 : Altered aroclor.6 : Altered aroclor.

38 : Surrogate was diluted38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date December 21, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc. Job No.: 3435, 006, 62201 Project: GM - SPDES Treatment System IRM Certification NY No.: 10155

Proj. Desc:

Package#: 3529

10/10/02 Matrix: Solid Collected: X 5908 Sample:

Received: 10/10/02 QC Batch: 101102S3 Sample Description: SS08-5F-2 Prepared: 10/11/02 HP5890-89 %Solids: 87.0 Instrument:

Units: mg/Kg Dry weight Sample Size: 30 g

Number of analytes: 7 Column Name: RTXCLP, 30m x .53mmID Primary: Y

Parameter	Result Qual	$\mathtt{MDL}$	PQL	Dil	Analyzed Notes
PCB-1016	< .57 U	.080	.57	1	10/15/02
PCB-1221	< .57 U	.11	.57	1	10/15/02
PCB-1232	< .57 U	.14	.57	1	10/15/02
PCB-1242	< .57 U	.055	.57	1	10/15/02
PCB-1248	.17	.16	.57	1	10/15/02
PCB-1254	< .57 U	.10	.57	1	10/15/02
PCB-1260	< .57 U	.068	.57	1	10/15/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	79.		30-150	
Decachlorobiphenyl (surrogate)	70.		30 - 150	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

Thomas Alexander

thomas a Dajanda

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529 Sample: X 5908

Sample Description: SS08-5F-2

HP5890-89 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435, 006.62201

Certification NY No.: 10155

10/10/02 Collected:

Matrix: Solid QC Batch: 101102S3

Received: 10/10/02 Prepared: 10/11/02

%Solids: 87.0

Sample Size: 30 g

Primary: N

Parameter	Result Qua	al MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .57 U	.080	.57	1	10/15/02
PCB-1221	< .57 U	.11	.57	1	10/15/02
PCB-1232	< .57 U	.14	.57	1	10/15/02
PCB-1242	< .57 U	.055	.57	1	10/15/02
PCB-1248	.18	.16	.57	1	10/15/02
PCB-1254	< .57 U	.10	.57	1	10/15/02
PCB-1260	< .57 U	.068	.57	1	10/15/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	84.		30 - 150	
Decachlorobiphenyl (surrogate)	84.		30-150	

Column Name: RTXCLP2, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized: Date: December 21, 2004

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529 Sample: X 5912

Sample Description: TB53-IN-2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435, 006, 62201 Certification NY No.: 10155

Collected: 10/10/02

/10/02 Matrix: Solid

Received: 10/10/02 Prepared: 10/11/02 QC Batch: 101102S3

%Solids: 85.0

Sample Size: 30 g

Primary: Y

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .59 U	.082	.59	1	10/16/02
PCB-1221	< .59 U	.11	.59	1	10/16/02
PCB-1232	< .59 Ŭ	.15	.59	1	10/16/02
PCB-1242	< .59 U	.056	.59	1	10/16/02
PCB-1248	3.7	.16	.59	1	10/16/02 6
PCB-1254	< .59 U	.11	.59	1	10/16/02
PCB-1260	< .59 Ŭ	.070	.59	1	10/16/02

			%R		
Surrogate	%R	Qual	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	76.		30 - 150		
Decachlorobiphenyl (surrogate)	78.		30 - 150		

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6 : Altered aroclor.6 : Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized: //www.field Date: December 21, 2004

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

GM - SPDES Treatment System IRM Project:

Proj. Desc:

Package#: 3529

Sample: X 5912 Sample Description: TB53-1N-2

Instrument: HP5890-89

Units: mg/Kg Dry weight Number of analytes: 7

Job No.: 3435.006.62201

Certification NY No.: 10155

10/10/02 Collected:

Matrix: Solid

Received: 10/10/02 QC Batch: 101102S3

Prepared: 10/11/02 %Solids: 85.0

Sample Size: 30 g

Primary: N

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .59 Ŭ	.082	.59	1	10/16/02
PCB-1221	< .59 U	.11	.59	1	10/16/02
PCB-1232	< .59 U	.15	.59	1	10/16/02
PCB-1242	< .59 U	.056	.59	1	10/16/02
PCB-1248	4.2	.16	.59	1	10/16/02 6
PCB-1254	< .59 Ŭ	.11	.59	1	10/16/02
PCB-1260	< .59 U	.070	.59	1	10/16/02

			%R		
Surrogate	%R	Qual	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	77.		30-150		
Decachlorobiphenyl (surrogate)	84.		30 - 150		

Column Name: RTXCLP2, 30m x .53mmID

#### Notes:

6 : Altered aroclor. Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: December 21, 2004

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529

Sample: X 5911 Sample Description: TB53-2E-2

Instrument: HP5890-89

Units: mg/Kg Dry weight Number of analytes: 7

eight Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435, 006.62201

Certification NY No.: 10155

Collected: 10/10/02

10/11/02

Received:

Prepared:

Matrix: Solid

10/10/02 C

QC Batch: 101102S3

%Solids: 87.0

Sample Size: 30 g

Primary: Y

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 29. U	4.0 29		50	10/15/02
PCB-1221	< 29. U	5.5 29		50	10/15/02
PCB-1232	< 29. U	7.1 29		50	10/15/02
PCB-1242	< 29. U	2.8 29		50	10/15/02
PCB-1248	73.	7.9 29		50	10/15/02 6
PCB-1254	< 29. U	5.2 29		50	10/15/02
PCB-1260	< 29. U	3.4 29		50	10/15/02

	%R					
Surrogate	%R	Qual	Limits	Notes		
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	69.		30-150	38		
Decachlorobiphenyl (surrogate)	84.		30 - 150	38		

#### Notes:

6 : Altered aroclor.6 : Altered aroclor.

38 : Surrogate was diluted
38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

GM - SPDES Treatment System IRM Project:

Proj. Desc:

Package#: 3529 Sample: X 5911

Sample Description: TB53-2E-2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Collected:

Prepared:

10/10/02

Matrix: Solid

Received: 10/10/02 QC Batch: 101102S3

10/11/02 %Solids: 87.0

Job No.: 3435, 006, 62201

Certification NY No.: 10155

Sample Size: 30 g

Primary: N

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 29. U	4.0	29	50	10/15/02
PCB-1221	< 29. U	5.5	29	50	10/15/02
PCB-1232	< 29. U	7.1	29	50	10/15/02
PCB-1242	< 29. U	2.8	29	50	10/15/02
PCB-1248	95.	7.9	29	50	10/15/02 6
PCB-1254	< 29. U	5.2	29	50	10/15/02
PCB-1260	< 29. Ŭ	3.4	29	50	10/15/02

			%R		
Surrogate	%R	Qual	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	77.		30 - 150	38	
Decachlorobiphenyl (surrogate)	32.		30 - 150	38	

Column Name: RTXCLP2, 30m x .53mmID

#### Notes:

6 : Altered aroclor. : Altered aroclor.

Surrogate was diluted 38 Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529 Sample: X 5913

Sample Description: TB53-3S-2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435,006.62201 Certification NY No.: 10155

Collected: 10/10/02

10/10/02

Matrix: Solid QC Batch: 101102S3

Received: Prepared: 10/11/02

%Solids: 89.0 Sample Size: 30 g

Primary: Y

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 11. U	<b>1</b> .6 11		20	10/16/02
PCB-1221	< 11. U	2.1 11		20	10/16/02
PCB-1232	< 11. U	2.8 11		20	10/16/02
PCB-1242	< 11. U	1.1 11		20	10/16/02
PCB-1248	97.	3.1 11		20	10/16/02 6
PCB-1254	< 11. U	2.0 11		20	10/16/02
PCB-1260	< 11. U	1.3 11		20	10/16/02

	%R				
Surrogate	%R	Qual	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	79.		30 - 150	38	
Decachlorobiphenyl (surrogate)	100.		30-150	38	

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6 : Altered aroclor. : Altered aroclor. 6

38 Surrogate was diluted Surrogate was diluted 38

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: December 21, 2004

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529 X 5913 Sample:

Sample Description: TB53-3S-2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435.006.62201 Certification NY No.: 10155

Collected: 10/10/02

Matrix: Solid

Received: 10/10/02 QC Batch: 101102S3

Prepared: 10/11/02

%Solids: 89.0 Sample Size: 30 g

Primary: N

Parameter	Result Qual	MDL	PQL Di	il Analyzed Notes
PCB-1016	< 11. U	1.6 11	. 2	0 10/16/02
PCB-1221	< 11. U	2.1 11	. 29	0 10/16/02
PCB-1232	< 11. U	2.8 11	. 29	0 10/16/02
PCB-1242	< 11. U	1.1 1.1	. 2	0 10/16/02
PCB-1248	100.	3.1 11	. 2	0 10/16/02 6
PCB-1254	< 11. U	2.0 11	. 2	0 10/16/02
PCB-1260	< 11. U	1.3 11	. 2	0 10/16/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	92.		30-150	38
Decachlorobiphenyl (surrogate)	82.		30 - 150	38

Column Name: RTXCLP2, 30m x .53mmID

#### Notes:

6 : Altered aroclor. : Altered aroclor. 6

38 Surrogate was diluted Surrogate was diluted 38

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529 Sample: X5914

Sample Description: TB53-4W-2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Collected:

10/10/02 Matrix: Solid

Job No.: 3435, 006, 62201

Certification NY No.: 10155

Received: 10/10/02 Prepared: 10/11/02 QC Batch: 101102S3

%Solids: 88.0

Sample Size: 30 g

Primary: Y

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 28. U	3.9 2	8	50	10/16/02
PCB-1221	< 28. U	5.4 2	8	50	10/16/02
PCB-1232	< 28. U	7.0 2	8	50	10/16/02
PCB-1242	< 28. U	2.7 2	8	50	10/16/02
PCB-1248	180.	7.8 2	8	50	10/16/02 6
PCB-1254	< 28. U	5.1 2	8	50	10/16/02
PCB-1260	< 28. U	3.4 2	8	50	10/16/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	64.		30 - 150	38
Decachlorobiphenyl (surrogate)	86.		30 - 150	38

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6 : Altered aroclor. Altered aroclor.

Surrogate was diluted 38 38 Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529 Sample: X 5914

Sample Description: TB53-4W-2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

o.

Collected: Received:

Prepared:

10/10/02

10/11/02

Matrix: Solid

10/10/02

Job No.: 3435, 006, 62201

Certification NY No.: 10155

QC Batch: 101102S3

%Solids: 88.0

Sample Size: 30 g

Primary: N

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 28. U	3.9	28	50	10/16/02
PCB-1221	< 28. U	5.4	28	50	10/16/02
PCB-1232	< 28. U	7.0	28	50	10/16/02
PCB-1242	< 28. U	2.7	28	50	10/16/02
PCB-1248	230.	7.8	28	50	10/16/02 6
PCB-1254	< 28. U	5.1	28	50	10/16/02
PCB-1260	< 28. U	3.4	28	50	10/16/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	82.		30 - 150	38
Decachlorobiphenyl (surrogate)	31.		30-150	38

Column Name: RTXCLP2, 30m x .53mmID

#### Notes:

6 : Altered aroclor.6 : Altered aroclor.

38 : Surrogate was diluted38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

Analytical Results Method: 8082

Job No.: 3435, 006, 62201

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529 Sample: X 5910

Sample: X 5910 Sample Description: TB53-5F-2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

0: · 2520

Collected:

10/10/02

Matrix: Solid

Received: 10/10/02

QC Batch: 101102S3

Prepared: 10/11/02

%Splids: 77.0

Sample Size: 30 g Primary: Y

Parameter	Result Qua	1 MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 6.5 U	.90	6.5	10	10/16/02
PCB-1221	< 6.5 U	1.2	6.5	10	10/16/02
PCB-1232	< 6.5 U	1.6	6.5	10	10/16/02
PCB-1242	< 6.5 Ŭ	.62	6.5	10	10/16/02
PCB-1248	13.	1.8	6.5	10	10/16/02 6
PCB-1254	< 6.5 U	1.2	6.5	10	10/16/02
PCB-1260	< 6.5 U	.77	6.5	10	10/16/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	74.		30 - 150	38
Decachlorobiphenyl (surrogate)	89.		30 - 150	38

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6 : Altered aroclor.6 : Altered aroclor.

38 : Surrogate was diluted 38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

Thomas Alexander

thomas Allejanda.

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529

Sample: X 5910 Sample Description: TB53-5F-2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435, 006, 62201 Certification NY No.: 10155

10/10/02 Collected:

Matrix: Solid 10/10/02

QC Batch: 101102S3

Received: Prepared: 10/11/02

%Solids: 77.0

Sample Size: 30 g

Primary: N

Parameter	Result Q	ual MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 6.5 U	.90	5.5	10	10/16/02
PCB-1221	< 6.5 U	1.2	5.5	10	10/16/02
PCB-1232	< 6.5 U	1.6	5.5	10	10/16/02
PCB-1242	< 6.5 U	.62	5.5	10	10/16/02
PCB-1248	18.	1.8	5.5	10	10/16/02 6
PCB-1254	< 6.5 บ	1.2	5.5	10	10/16/02
PCB-1260	< 6.5 U	.77	5.5	10	10/16/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	88.		30-150	38
Decachlorobiphenyl (surrogate)	85.		30-150	38

Column Name: RTXCLP2, 30m x .53mmID

### Notes:

6 : Altered aroclor. б : Altered aroclor.

Surrogate was diluted 38 Surrogate was diluted 38

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

**Analytical Results Method: 8082** 

Job No.: 3435.006.62201

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

3529 Sample: X5915

Sample Description: SS06-IN-2

HP5890-89 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

Package#:

Collected:

10/10/02 Received: 10/10/02 Prepared:

10/11/02

Matrix: Solid

QC Batch: 101102S3 %Solids: 88.0

Sample Size: 30 g

Primary: Y

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 5.7 U	.79	5.7	10	10/16/02
PCB-1221	< 5.7 U	1.1	5.7	10	10/16/02
PCB-1232	< 5.7 U	1.4	5.7	10	10/16/02
PCB-1242	< 5.7 U	.55	5.7	10	10/16/02
PCB-1248	12.	1.6	5.7	10	10/16/02 6
PCB-1254	< 5.7 U	1.0	5.7	10	10/16/02
PCB-1260	< 5.7 U	.67	5.7	10	10/16/02

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	87.		30 - 150	38
Decachlorobiphenyl (surrogate)	92.		30-150	38

Column Name: RTXCLP, 30m x .53mmID

### Notes:

6 : Altered aroclor. 6 Altered aroclor.

38 Surrogate was diluted 38 Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: December 21,

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529

Sample: X 5915 Sample Description: SS06-IN-2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435.006.62201 Certification NY No.: 10155

10/10/02 Collected:

Matrix: Solid

Received: 10/10/02 QC Batch: 101102S3

Prepared: 10/11/02

%Solids: 88.0

Sample Size: 30 g Primary: N

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 5.7 U	.79	5.7	10	10/16/02
PCB-1221	< 5.7 U	1.1	5.7	10	10/16/02
PCB-1232	< 5.7 U	1.4	5.7	10	10/16/02
PCB-1242	< 5.7 U	.55	5.7	10	10/16/02
PCB-1248	14.	1.6	5.7	10	10/16/02 6
PCB-1254	< 5.7 U	1.0	5.7	10	10/16/02
PCB-1260	< 5.7 U	.67	5.7	10	10/16/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	96.		30 - 150	38
Decachlorobiphenyl (surrogate)	93.		30-150	38

Column Name: RTXCLP2, 30m x .53mmID

#### Notes:

6 : Altered aroclor. Altered aroclor. 6

38 Surrogate was diluted Surrogate was diluted 38

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - SPDES Treatment System IRM

Project: Proj. Desc:

Package#: 3529 X 5916 Sample:

Sample Description: SS06-4W-2

HP5890-89 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435.006.62201 Certification NY No.: 10155

10/10/02 Collected:

Prepared:

10/11/02

Matrix: Solid

Received: 10/10/02 QC Batch: 101102S3

%Solids: 86.0

Sample Size: 30 g

Primary: Y

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 1.2 U	.16	1.2	2	10/16/02
PCB-1221	< 1.2 U	.22	1.2	2	10/16/02
PCB-1232	< 1.2 U	.29	1.2	2	10/16/02
PCB-1242	< 1.2 U	.11	1.2	2	10/16/02
PCB-1248	2.9	.32	1.2	2	10/16/02 6
PCB-1254	< 1.2 U	.21	1.2	2	10/16/02
PCB-1260	< 1.2 U	.14	1.2	2	10/16/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	86.		30-150	38
Decachlorobiphenyl (surrogate)	79.		30-150	38

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

: Altered aroclor. 6 : Altered aroclor. 6

Surrogate was diluted 38 Surrogate was diluted 38

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: December 21, 2004

**Analytical Results Method: 8082** 

Job No.: 3435, 006.62201

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529 Sample: X 5916

Sample Description: SS06-4W-2

HP5890-89 Instrument: mg/Kg Dry weight Units:

Number of analytes: 7

Column Name: RTXCLP2, 30m x .53mmID

Collected:

10/10/02

Matrix: Solid

Received: 10/10/02 Prepared: 10/11/02 QC Batch: 101102S3

%Solids: 86.0

Sample Size: 30 g

Primary: N

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 1.2 U	.16	1.2	2	10/16/02
PCB-1221	< 1.2 U	. 22	1.2	2	10/16/02
PCB-1232	< 1.2 U	.29	1.2	2	10/16/02
PCB-1242	< 1.2 U	.11	1.2	2	10/16/02
PCB-1248	2.8	. 32	1.2	2	10/16/02 6
PCB-1254	< 1.2 U	. 21	1.2	2	10/16/02
PCB-1260	< 1.2 U	.14	1.2	2	10/16/02

	%R				
Surrogate	%R	Qual	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	89.		30 - 150	38	
Decachlorobiphenyl (surrogate)	88.		30-150	38	

### Notes:

6 : Altered aroclor. 6 Altered aroclor.

Surrogate was diluted 38 38 Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

**Analytical Results Method: 8082** 

Job No.: 3435, 006, 62201

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529 Sample: X 5918

Sample Description: FD #1

HP5890-89 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

Collected:

10/10/02

Matrix: Solid

Received: 10/10/02 Prepared: 10/11/02

QC Batch: 101102S3

%Solids: 80.0

Sample Size: 30 g

Primary: Y

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 12. U	1.7	12	20	10/16/02
PCB-1221	< 12. U	2.4	12	20	10/16/02
PCB-1232	< 12. U	3.1	12	20	10/16/02
PCB-1242	< 12. U	1.2	12	20	10/16/02
PCB-1248	24.	3.4	12	20	10/16/02 6
PCB-1254	< 12. U	2.3	12	20	10/16/02
PCB-1260	< 12. U	1.5	12	20	10/16/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	30.		30-150	38
Decachlorobiphenyl (surrogate)	37.		30-150	38

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6 : Altered aroclor. 6 Altered aroclor.

Surrogate was diluted 38 38 Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 3529

Sample: X 5918
Sample Description: FD #1

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 006 . 62201 - Certification NY No.: 10155

Collected: 10/10/02 Matrix: Solid Received: 10/10/02 QC Batch: 101102S3

Prepared: 10/11/02 %Solids: 80.0

Sample Size: 30 g

Primary: N

Parameter	Result Qua	l MDL	PQL Dil	Analyzed Notes
PCB-1016	< 12. U	1.7 12	20	10/16/02
PCB-1221	< 12. U	2.4 12	20	10/16/02
PCB-1232	< 12. U	3.1 12	20	10/16/02
PCB-1242	< 12. U	1.2 12	20	10/16/02
PCB-1248	37.	3.4 12	20	10/16/02 6
PCB-1254	< 12. U	2.3 12	20	10/16/02
PCB-1260	< 12. U	1.5 12	20	10/16/02

		%R		
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	37.		30-150	38
Decachlorobiphenyl (surrogate)	17.	#	30 - 150	. 38

Column Name: RTXCLP2, 30m x .53mmID

#### Notes:

6 : Altered aroclor.6 : Altered aroclor.

38 : Surrogate was diluted38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc. GM - Former Landfill IRM Project:

Job No.: 3435 . 124 . 62201 Certification NY No.: 10155

Proj. Desc:

Package#: 3778 Y 0801 Sample:

Sample Description: SS-08-IN-3

11/05/02 Matrix: Solid Collected:

QC Batch: 110602S1

Instrument: HP5890-90 Received: 11/05/02 Prepared: 11/06/02

%Solids: 88.0

Sample Size: 30 g

Primary: N

Units: mg/Kg Dry weight Number of analytes: 7

Column Name: DB-1701, 30m x .53mm ID

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 28.	U	3.9	28	50	11/13/02
PCB-1221	< 28.	U	5.4	28	50	11/13/02
PCB-1232	< 28.	U	7.0	28	50	11/13/02
PCB-1242	< 28.	U	2.7	28	50	11/13/02
PCB-1248	110.		7.8	28	50	11/13/02
PCB-1254	< 28.	U	5.1	28	50	11/13/02
PCB-1260	< 28.	ប	3.4	28	50	11/13/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	100.		30-150	
Decachlorobiphenyl (surrogate)	140.		30-150	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: December 21, 2004

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc. GM - Former Landfill IRM Project:

Job No.: 3435 . 124 . 62201 Certification NY No.: 10155

Proj. Desc:

Package#: 3778

11/05/02 Matrix: Solid Collected: Samole: Y 0801

Received: 11/05/02 QC Batch: 110602S1 Sample Description: SS-08-IN-3 Prepared: 11/06/02 %Solids: 88.0 Instrument: HP5890-90

Units: mg/Kg Dry weight Sample Size: 30 g

Column Name: DB-608, 30m x .53mm ID Number of analytes: 7 Primary: Y

Parameter	Result	Qual	$\mathtt{MDL}$	PQL	Dil	Analyzed Notes
PCB-1016	< 28.	U	3.9	28	50	11/07/02
PCB-1221	< 28.	U	5.4	28	50	11/07/02
PCB-1232	< 28.	U	7.0	28	50	11/07/02
PCB-1242	< 28.	U	2.7	28	50	11/07/02
PCB-1248	120.		7.8	28	50	11/07/02
PCB-1254	< 28.	U	5.1	28	50	11/07/02
PCB-1260	< 28.	U	3.4	28	50	11/07/02

			%R		
Surrogate	%R	Qual	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<b>1</b> 10.		30 - 150		
Decachlorobiphenyl (surrogate)	110.		30 - 150		

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: December 21, 2004

**Analytical Results Method: 8082** 

Job No.: 3435, 124,62201

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill IRM

Proj. Desc:

Package#: 3776 Sample: Y 0762

Sample Description: TB-53-3S-3

HP5890-90 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

Collected:

11/05/02

11/06/02

Matrix: Solid

Received: 11/05/02 Prepared:

QC Batch: 110602S1

%Solids: 88.0 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 5.7	U	.79	5.7	10	11/07/02
PCB-1221	< 5.7	U	1.1	5.7	10	11/07/02
PCB-1232	< 5.7	U	1.4	5.7	10	11/07/02
PCB-1242	< 5.7	U	.55	5.7	10	11/07/02
PCB-1248	7.0		1.6	5.7	10	11/07/02
PCB-1254	· < 5.7	U	1.0	5.7	10	11/07/02
PCB-1260	< 5.7	U	.67	5.7	10	11/07/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	100.		30~150	
Decachlorobiphenyl (surrogate)	100.		30-150	

Column Name: DB-608, 30m x .53mm ID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: December 2

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill IRM

Proj. Desc:

Package#: 3776 Sample: Y0762

Sample Description: TB-53-3S-3

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62201 Certification NY No.: 10155

Collected:

11/05/02

Matrix: Solid

Received: 11/05/02 Prepared: 11/06/02

%Solids: 88.0

Sample Size: 30 g

QC Batch: 110602S1

Primary: N

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 5.7 U	.79	5.7	10	11/13/02
PCB-1221	< 5.7 U	1.1	5.7	10	11/13/02
PCB-1232	< 5.7 U	1.4	5.7	10	11/13/02
PCB-1242	< 5.7 U	.55	5.7	10	11/13/02
PCB-1248	8.0	1.6	5.7	10	11/13/02
PCB-1254	< 5.7 U	1.0	5.7	10	11/13/02
PCB-1260	< 5.7 U	.67	5.7	10	11/13/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	100.		30 - 150	
Decachlorobiphenyl (surrogate)	140.		30~150	

Column Name: DB-1701, 30m x .53mm ID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: December 21, 2004

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.
Project: GM - Former Landfill IRM

Job No.: 3435 . 124 . 62201 Certification NY No.: 10155

Proj. Desc:

Package#: 3776 Sample: Y0763

Collected: 11/05/02 Matrix: Solid

Sample Description: TB-53-2E-3

Received: 11/05/02 QC Batch: 110602S1

Instrument: HP5890-90

Prepared: 11/06/02 %Solids: 85.0

Units: mg/Kg Dry weight Number of analytes: 7 Solids: 85.0 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .59	U	.082	.59	1	11/07/02
PCB-1221	< .59	U	.11	.59	1	11/07/02
PCB-1232	< .59	U	.15	.59	1	11/07/02
PCB-1242	< .59	U	.056	.59	1	11/07/02
PCB-1248	< .59	U	.16	.59	1	11/07/02
PCB-1254	< .59	U	.11	.59	1	11/07/02
PCB-1260	< .59	U	.070	.59	1	11/07/02

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	100.		30-150	
Decachlorobiphenyl (surrogate)	100.		30-150	

Column Name: DB-608, 30m x .53mm ID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized: Date: December 21, 2004

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill IRM

Proj. Desc:

Package#: 3776 Sample: Y 0764

Sample Description: FD# 1 Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435, 124, 62201 Certification NY No.: 10155

11/05/02 Collected:

Matrix: Solid

Received: 11/05/02 Prepared: 11/06/02

%Solids: 85.0

Sample Size: 30 g

QC Batch: 110602S1

Primary: Y

Parameter	Result Qua	1 MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .59 U	.082 .5	9	1	11/07/02
PCB-1221	< .59 U	.11 .59	9	1	11/07/02
PCB-1232	< .59 U	.15 .59	9	1	11/07/02
PCB-1242	< .59 U	.056 .5	9	1	11/07/02
PCB-1248	< .59 U	.16 .5	9	1	11/07/02
PCB-1254	< .59 U	.11 .5:	9	1	11/07/02
PCB-1260	< .59 U	.070 .5	9	1	11/07/02

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	110.		30 - 150	
Decachlorobiphenyl (surrogate)	110.		30 - 150	

Column Name: DB-608, 30m x .53mm ID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.
Project: GM - Former Landfill IRM

Job No.: 3435 . 124 . 62201 Certification NY No.: 10155

%Solids: 86.0

Proj. Desc:

Package#: 5215

Sample: A 4723 Collected: 04/30/03 Matrix: Solid

Sample Description: SS-08-IN-5 Received: 04/30/03 QC Batch: 050203S1

Instrument: HP5890-89 Prepared: 05/02/03 Units: mg/Kg Dry weight

Sample Size: 30 g

Number of analytes: 7 Column Name: RTXCLP2, 30m x .53mmID Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 12.	U	1.6	12	20	05/02/03
PCB-1221	< 12.	U	2.2	12	20	05/02/03
PCB-1232	< 12.	U	2.9	12	20	05/02/03
PCB-1242	< 12.	U	1.1	12	20	05/02/03
PCB-1248	55.		3.2	12	20	05/02/03 6
PCB-1254	< 12.	U	2.1	12	20	05/02/03
PCB-1260	< 12.	U	1.4	12	20	05/02/03

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	90.		47-135	38
Decachlorobiphenyl (surrogate)	78.		40-140	3.8

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the POL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:\_

Date: May 16, 2003

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former Landfill IRM

Job No.: 3435 . 124 . 62201 Certification NY No.: 10155

Proj. Desc:

Package#: 5215 Sample: A 4723

Sample Description: SS-08-IN-5

Collected: Received: 04/30/03 05/02/03

04/30/03

Matrix: Solid QC Batch: 050203S1

Instrument: HP5890-90 Prepared:

%Solids: 86.0

Units: mg/Kg Dry weight Number of analytes: 7

Column Name: DB-1701, 30m x .53mm ID

Sample Sizc: 30 g Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 12.	U	1.6	12	20	05/06/03
PCB-1221	< 12.	U	2.2	12	20	05/06/03
PCB-1232	< 12.	U	2.9	12	20	05/06/03
PCB-1242	< 12.	U	1.1	12	20	05/06/03
PCB-1248	56,		3.2	12	20	05/06/03 6
PCB-1254	< 12.	U	2.1	12	20	05/06/03
PCB-1260	< 12.	U	1.4	12	20	05/06/03

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	75.		47-135	38
Decachlorobiphenyl (surrogate)	85.		40-140	3.8

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:\_

Date: May 16, 2003

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Proj. Desc:

Package#: 5870 Sample: A 8341

\$341 Collected: 07/11/03 Matrix: Solid ription: SS-08-IN-6 Received: 07/11/03 OC Batch: 07

Sample Description: SS-08-IN-6 Received: 07/11/03
Instrument: HP5890-89 Prepared: 07/16/03

QC Batch: 071603S1

%Solids: 85.0

Primary: Y

Sample Size: 30 g

Units: mg/Kg Dry weight Number of analytes: 7

Column Name: RTXCLP2, 30m x .53mmID

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .59	Ü	.082	.59	1	07/16/03
PCB-1221	< .59	U	.11	. 59	1	07/16/03
PCB-1232	< .59	U	.15	.59	1	07/16/03
PCB-1242	< .59	U	.056	.59	1	07/16/03
PCB-1248	.37	J	.16	.59	1	07/16/03 6
PCB-1254	< .59	U	.11	.59	1	07/16/03
PCB-1260	< .59	Ū	.070	.59	1	07/16/03

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	73.		30~150	,
Decachlorobiphenyl (surrogate)	87.		30 - 150	

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: July 17, 2003

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 5870 Sample: A 8341

Sample Description: SS-08-IN-6

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Certification NY No.: 10155

Job No.: 3435 . 124 . 62301

Collected:

07/11/03

Matrix: Solid

Received: 07/11/03 QC Batch: 071603S1

Prepared: 07/16/03

%Solids: 85.0 Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .59	U	.082	.59	1	07/16/03
PCB-1221	< .59	U	.11	.59	1	07/16/03
PCB-1232	< .59	U	.15	.59	1	07/16/03
PCB-1242	< .59	Ü	.056	.59	1	07/16/03
PCB-1248	.36	J	.16	.59	1	07/16/03 6
PCB-1254	< .59	U	.11	.59	1	07/16/03
PCB-1260	< .59	U	.070	.59	1	07/16/03

			₹R			
Surrogate	%R	Qual	Limits	Notes		
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	70.		30 - 150	<del></del>		
Decach1orobiphenyl (surrogate)	85.		30 - 150			

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: July 17, 2003

Analytical Results Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 5870 Sample: A8341

Samp. Description: SS-08-IN-6

Job No.: 3435.124.62301 Certification NY No.: 10155

Collected: 07/11/03

Received: 07/11/03 17:00

Matrix: Solid Number of Analytes: 1

Parameter	Result	Q	Units	Method	MDL	PQL	Analyzed	QC Batch Dil Note
% Total Solids	85.2		8	2540-G		1.0	07/14/03	071403S1 1

Notes:

B - Analyte detected above the PQL in the associated Prep Blank

U - Undetected at the reported level.

J - Reported value is estimated. D- Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

Authorized:

Date: July 25, 2003

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former Landfill

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Proj. Desc:

Package#: 6416 Sample:

B 1006

Sample Description: TB-11-W1

HP5890-90

Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: DB-608, 30m x .53mm ID

09/25/03 Collected:

Received:

Prepared:

09/25/03

09/26/03

Matrix: Solid

QC Batch: 092603S1

%Solids: 82.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 12.	Ü	1.1	12	20	09/29/03
PCB-1221	< 12.	U	3.9	12	20	09/29/03
PCB-1232	< 12.	U	2.5	12	20	09/29/03
PCB-1232	< 12.	ū	1.6	12	20	09/29/03
	16.	Р	. 62	12	20	09/29/03 6
PCB-1248	< 12.	U	1.3	12	20	09/29/03
PCB-1254		-	1.5	12	20	09/29/03
PCB-1260	< 12.	Ü	1.5	12	20	03,23,00

			₹R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	123.	* <del></del>	30-150	38
Decachlorobiphenyl (surrogate)	86.		30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted 38. Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project:

Proj. Desc:

Package#: 6416 B 1006 Sample:

Sample Description: TB-11-W1

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

GM - Former Landfill

Certification NY No.: 10155

09/25/03 Collected:

Matrix: Solid QC Batch: 092603S1

Job No.: 3435 . 124 . 62301

Received: 09/25/03 Prepared: 09/26/03

%Solids: 82.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 12.	U	1.1	12	20	09/29/03
PCB-1016 PCB-1221	< 12.	Ū	3.9	12	20	09/29/03
	< 12.	Ū	2.5	12	20	09/29/03
PCB-1232	< 12.	Ū	1.6	12	20	09/29/03
PCB-1242	24.	Р	.62	12	20	09/29/03 6
PCB-1248	< 12.	ע	1.3	12	20	09/29/03
PCB-1254	< 12.	Ü	1.5	12	20	09/29/03
PCB-1260	<b>\ 12.</b>	V	1.5	1.		

			%R		
Surrogate	%R	Qual	Limits_	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	123.		30-150	38	
Decachlorobiphenyl (surrogate)	78.		30-150	38	

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38. Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6416 Sample: B 1007

Sample Description: TB-11-FD

Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: DB-608, 30m x .53mm ID

HP5890-90

Job No.: 3435, 124,62301 Certification NY No.: 10155

09/25/03 Collected: Received:

Prepared:

Matrix: Solid

QC Batch: 092603S1 09/25/03 09/26/03 %Solids: 81.0

Sample Size: 30 g

Primary: Y

Demonstor	Result	Qual	MDL	PQL	Dil	Analyzed Notes
Parameter PCB-1016	< 6.2	U	.56	6.2	10	09/29/03
<del></del>	< 6.2	บ	2.0	6.2	10	09/29/03
PCB-1221	< 6.2	Ü	1.3	6.2	10	09/29/03
PCB-1232	< 6.2	Ü	.79	6.2	10	09/29/03
PCB-1242		-		6.2	10	09/29/03 6
PCB-1248	11.	P	. 31		10	09/29/03
PCB-1254	< 6.2	ឋ	.64	6.2		09/29/03
PCB-1260	< 6.2	ប	.77	6.2	10	09/49/03

			ŧR	
Surrogate	&R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	113.		30 - 150	38
Decachlorobiphenyl (surrogate)	92.		30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6416 B 1007 Sample:

Sample Description: TB-11-FD

HP5890-89 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

09/25/03 Collected: Received:

Matrix: Solid

Job No.: 3435, 124,62301

Certification NY No.: 10155

09/25/03 Prepared: 09/26/03

QC Batch: 092603S1

%Solids: 81.0

Sample Size: 30 g

Primary: N

Result	Qual	MDL	PQL	Dil	Analyzed Notes
< 6.2	Ü	.56	6.2	10	09/29/03
< 6.2	U	2.0	6.2	10	09/29/03
	Ü		6.2	10	09/29/03
	-		6.2	10	09/29/03
	•	-	6.2	10	09/29/03 6
	_		6.2	10	09/29/03
	•		6.2	10	09/29/03
		< 6.2 U < 6.2 U < 6.2 U < 6.2 U 18. P < 6.2 U	< 6.2 U .56 < 6.2 U 2.0 < 6.2 U 1.3 < 6.2 U .79 18. P .31 < 6.2 U .64	<pre></pre>	<ul> <li>&lt; 6.2 U .56 6.2 10</li> <li>&lt; 6.2 U 2.0 6.2 10</li> <li>&lt; 6.2 U 1.3 6.2 10</li> <li>&lt; 6.2 U .79 6.2 10</li> <li>18. P .31 6.2 10</li> <li>&lt; 6.2 U .64 6.2 10</li> </ul>

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	121.		30~150	38
Decachlorobiphenvl (surrogate)	92.		30-150	38

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted. E - Concentration exceeded the calibration range and is estimated.

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6416 B 1002 Sample:

Sample Description: TB-11-F1 HP5890-90 Instrument:

Units: mg/Kg Dry weight

Number of analytes: 7

Collected: Received:

Prepared:

09/25/03 09/25/03

09/26/03

Matrix: Solid

QC Batch: 092603S1

Job No.: 3435, 124,62301

Certification NY No.: 10155

%Solids: 64.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .78	Ū	.070	.78	1	09/29/03
PCB-1221	< .78	Ü	.25	.78	1	09/29/03
PCB-1232	< .78	U	.16	.78	1	09/29/03
PCB-1242	< .78	U	.10	.78	1	09/29/03
PCB-1248	.24	JР	.040	.78	1	09/29/03
PCB-1254	< .78	U	.081	.78	1	09/29/03
PCB-1254	< .78	Ü	.098	.78	1	09/29/03
PCD-1200						

Column Name: DB-608, 30m x .53mm ID

			%R	
Surrogate	₹R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	95.		30-150	
Decachlorobiphenyl (surrogate)	72.		30 - 150	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

**Analytical Results** Method: 8082

09/25/03

09/26/03

Collected:

Received:

Prepared:

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 6416 B 1002 Sample:

Sample Description: TB-11-F1 Instrument:

Units: mg/Kg Dry weight

Number of analytes: 7

HP5890-89

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Matrix: Solid 09/25/03

QC Batch: 092603S1

%Solids: 64.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .78	U	.070	.78	1	09/29/03
PCB-1221	< .78	U	.25	.78	1	09/29/03
PCB-1232	< .78	U	.16	.78	1	09/29/03
PCB-1242	< .78	U	.10	.78	1	09/29/03
	.18	JΡ	.040	.78	1	09/29/03
• • -	· <del></del>	U	.081	.78	1	09/29/03
<b>-</b>	< .78	-	.098	.78	1	09/29/03
PCB-1248 PCB-1254 PCB-1260	.18 < .78 < .78	Ū	.081	.78	1 1 1	09/29/03

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	92.		30-150	
Decachlorobiphenyl (surrogate)	78.		30 - 150	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project:

Proj. Desc:

Package#: 6416 Sample: B 1003

Sample Description: TB-11-N1

HP5890-90 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

GM - Former Landfill

09/25/03 Collected: Received:

Prepared:

09/25/03 09/26/03 Matrix: Solid

Job No.: 3435, 124.62301

Certification NY No.: 10155

QC Batch: 092603S1

%Solids: 79.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 320.	Ü	28.	320	500	09/29/03
PCB-1221	< 320.	U	100.	320	500	09/29/03
PCB-1232	< 320.	U	66.	320	500	09/29/03
PCB-1242	< 320.	U	40.	320	500	09/29/03
PCB-1248	1700.		16.	320	500	09/29/03
PCB-1240	< 320.	U	33.	320	500	09/29/03
PCB-1260	< 320.	Ü	39.	320	500	09/29/03
FCD-1200		-				

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0	#	30-150	38
Decachlorobiphenyl (surrogate)	<0.0	#	30 - 150	38

Column Name: DB-608, 30m x .53mm ID

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 6416 Sample: B 1003

Sample Description: TB-11-N1 HP5890-89 Instrument:

Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435 124.62301

Certification NY No.: 10155

09/25/03 Matrix: Solid Collected:

Received: 09/25/03 QC Batch: 092603S1 Prepared: 09/26/03 %Solids: 79.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 320.	Ü	28.	320	500	09/29/03
PCB-1221	< 320.	U	100.	320	500	09/29/03
PCB-1232	< 320.	σ	66.	320	500	09/29/03
PCB-1242	< 320.	Ü	40.	320	500	09/29/03
PCB-1248	1600.		16.	320	500	09/29/03
PCB-1254	< 320.	Ū	33.	320	500	09/29/03
PCB-1260	< 320.	Ü	39.	320	500	09/29/03

			%R		
Surrogate	%R	Qual	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	129.		30-150	38	
Decachlorobiphenyl (surrogate)	0.0	#	30 - 150	38	

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: October

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6416 Sample: B 1004

Sample Description: TB-11-E1

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Community

Collected: 09/25/03 Received: 09/25/03

25/03 Matrix: Solid 25/03 QC Batch: 092603S1

Received: 09/25/03 Prepared: 09/26/03

%Solids: 74.0

Sample Size: 30 g

Primary: Y

	Result	Qual	MDL	PQL	Dil	Analyzed Notes
Parameter	< 6.8	U	. 61	6.8	10	09/29/03
PCB-1016		-			10	09/29/03
PCB-1221	< 6.8	Ü	2.1	6.8		***
PCB-1232	< 6.8	Ü	1.4	6.8	10	09/29/03
	< 6.8	Ü	.86	6.8	10	09/29/03
PCB-1242	16.	-	. 34	6.8	10	09/29/03
PCB-1248				-	10	09/29/03
PCB-1254	< 6.8	U	.70	6.8		,
PCB-1260	< 6.8	U	.84.	6.8	10	09/29/03

	%R	Oual	%R Limits	Notes
Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)	113.		30-150	38
Decachlorobiphenyl (surrogate)	93.		30-150	38

Column Name: DB-608, 30m x .53mm ID

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized: Date: October 16, 2003

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 6416 Sample:

Sample Description: TB-11-E1 Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

B 1004

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435, 124,62301

Certification NY No.: 10155

09/25/03 Collected:

09/26/03

Matrix: Solid

Received: 09/25/03 Prepared:

QC Batch: 092603S1 %Solids: 74.0

Sample Size: 30 g

Primary: N

Downskam	Result	Oual	MDL	PQL	Dil	Analyzed Notes
Parameter	< 6.8	U	.61	6.8	10	09/29/03
PCB-1016		•		6.8	10	09/29/03
PCB-1221	< 6.8	Ü	2.1	_		
PCB-1232	< 6.8	U	1.4	6.8	10	09/29/03
PCB-1242	< 6.8	Ü	.86	6.8	10	09/29/03
<del></del>	14.		.34	6.8	10	09/29/03
PCB-1248		27	.70	6.8	10	09/29/03
PCB-1254	< 6.8	Ü				09/29/03
PCB-1260	< 6.8	Ü	.84	6.8	10	09/29/03

Surrogate	%R	Qual	tk Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	121.		30-150	38
Decachlorobiphenyl (surrogate)	89.		30-150	38

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized: Date: October 16, 2003

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 6416 B 1005 Sample:

Sample Description: HP5890-90 Instrument:

mg/Kg Dry weight Units: Number of analytes: 7

TB-11-S1

Column Name: DB-608, 30m x .53mm ID

Job No.: 3435, 124,62301

Certification NY No.: 10155

09/25/03 Matrix: Solid Collected:

09/25/03

Received:

Prepared:

QC Batch: 092603S1

09/26/03 %Solids: 69.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .72	U	.065	.72	1	09/29/03
PCB-1221	< .72	Ü	.23	.72	1	09/29/03
PCB-1232	< .72	Ü	.15	.72	1	09/29/03
PCB-1242	< .72	Ü	.093	.72	1	09/29/03
PCB-1248	< .72	Ü	.037	.72	1	09/29/03
<del>-</del> · ·	< .72	Ü	.075	.72	1	09/29/03
PCB-1254	< .72	Ü	.090	.72	1	09/29/03
PCB-1260	114	~		· -		

			₹R	•
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	98.		30-150	
Decachlorobiphenyl (surrogate)	75.		30-150	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

**Analytical Results** Wet Chemistry

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6416

Sample: B1002

Samp. Description: TB-11-F1

Job No.:

3435.124.62301

Certification NY No.: 10155

Collected: 09/25/03

Received: 09/25/03 16:38

Solid Matrix:

Number of Analytes: 1

Parameter	Result C	Units	Method	MDL PQL	Analyzed	QC Batch Dil Note
% Total Solids	63.8	8	2540-G	1.0	09/26/03	09260359 1

Notes:

Package#: 6416

Sample: B1003

Samp. Description: TB-11-N1

Collected: 09/25/03

Received: 09/25/03 16:38

Matrix: Solid

Number of Analytes: 1

Parameter	Result Q	Units	Method MI	L PQL	Analyzed	QC Batch Dil Note
% Total Solids	79.2	8	2540-G	1.0	09/26/03	092603S9 1

Notes:

Package#: 6416

Sample: B1004

Samp. Description: TB-11-E1

Collected: 09/25/03

Received: 09/25/03 16:38

Matrix: Solid

Number of Analytes: 1

Parameter	Result Q	Units	Method	MDL PQL	Analyzed	QC Batch Dil Note
% Total Solids	73.6	*	2540-G	1.0	09/26/03	092603S9 1

Notes:

B - Analyte detected above the PQL in the associated Prep Blank

U - Undetected at the reported level.

J - Reported value is estimated. D- Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

Date: September 29, 2003 Thomas Alexand

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

**Analytical Results Wet Chemistry** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6416

Sample: B1005

Samp. Description: TB-11-S1

Job No.:

3435.124.62301

Certification NY No.: 10155

Collected: 09/25/03

Received: 09/25/03 16:38

Matrix: Solid

Number of Analytes: 1

Parameter	Result	Q Units	Method	MDL	PQL	Analyzed	QC Batch I	)il Note
% Total Solids	68.7		2540-G		1.0	09/26/03	09260389	1

Notes:

Package#: 6416

Sample: B1006

Samp. Description: TB-11-W1

Collected: 09/25/03

Received: 09/25/03 16:38

Matrix: Solid

Number of Analytes: 1

Parameter	Result	Q Units	Method	MDL	PQL Analyzed	QC Batch Dil Note
% Total Solids	81.9	8	2540-G		1.0 09/26/03	092603S9 1

Notes:

Package#: 6416

Sample: B1007

Samp. Description: TB-11-FD

Collected: 09/25/03

Received: 09/25/03 16:38

Matrix: Solid

Number of Analytes: 1

Parameter	Result	Q Units	Method	MDL PQ	L Analyzed	QC Batch Dil Note
% Total Solids	81.2	8	2540-G	1.	0 09/26/03	092603S9 1

Notes:

B - Analyte detected above the PQL in the associated Prep Blank

U - Undetected at the reported level.

J - Reported value is estimated. D- Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

Authorized:

Date: September 29, 2003 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 6451 Sample: B 1210

Sample Description: 4+40-F HP5890-89 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

Collected: Received: Prepared: 09/30/03 09/30/03 10/01/03 Matrix: Solid QC Batch: 100103S1

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

%Solids: 77.0 Sample Size: 30 g

Primary: Y

	<b></b>	01	MDL	PQL	Dil	Analyzed Notes
Parameter	Result < 6.5	Qual	.58	6.5	10	10/01/03
PCB-1016	< 6.5	Ū	2.1	6.5	10	10/01/03 10/01/03
PCB-1221	< 6.5	U	1.4	6.5	10 10	10/01/03
PCB-1232 PCB-1242	< 6.5	U	.83	6.5 6.5	10	10/01/03 6
PCB-1248	14.	rı.	.33 .67	6.5	10	10/01/03
PCB-1254	< 6.5 < 6.5		.81	6.5	10	10/01/03
PCB-1260	( 0.5	J				

	%R	Oual	%R Limits	Notes
Surrogate 2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	91. 65.		30 - 150 30 - 150	38 38

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

**Analytical Results** Method: 8082

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6451 B 1210 Samule:

Sample Description: 4+40-F HP5890-90 Instrument: mg/Kg Dry weight Units: Column Name: DB-1701, 30m x .53mm ID

Number of analytes: 7

Collected: Received:

Prepared:

09/30/03 09/30/03

10/01/03

Matrix: Solid

QC Batch: 100103S1

%Solids: 77.0 Sample Size: 30 g

Primary: N

	Result Qua	ı MDL	PQL	Dil	Analyzed Notes
Parameter	< 6.5 U	.58	6.5	10	10/02/03
PCB-1016	< 6.5 U	2.1	6.5	10	10/02/03
PCB-1221	< 6.5 U	1.4	6.5	10	10/02/03
PCB-1232	< 6.5 U	.83	6.5	10	10/02/03
PCB-1242	16.	.33	6.5	10	10/02/03 6
PCB-1248	< 6.5 U	.67	6.5	10	10/02/03
PCB-1254	< 6.5 U	.81	6.5	10	10/02/03
PCB-1260	V 0.5 U	.02			

	%R	Qual	%R Limits	Notes
Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)  Decachlorobiphenyl (surrogate)	71. 75.		30 - 150 30 - 150	38 38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

**Analytical Results** Method: 8082

Job No.: 3435 . 124 .62301

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

Project:

GM - Former Landfill

Proj. Desc:

Package#: 6451 Sample: B 1211

Sample Description: 4+90-F HP5890-89 Instrument: Units: mg/Kg Dry weight Column Name: RTXCLP, 30m x .53mmID

Number of analytes: 7

Collected: Received:

Prepared:

09/30/03 09/30/03 10/01/03 Matrix: Solid QC Batch: 100103S1

%Solids: 71.0

Sample Size: 30 g

Primary: Y

	Result	Qual	MDL	PQL	Dil	Analyzed Notes
Parameter	< 140.	U	13.	140	200	10/01/03
PCB-1016	< 140.	Ü	45.	140	200	10/01/03
PCB-1221	< 140.	Ü	29.	140	200	10/01/03
PCB-1232	< 140.	ប	18.	140	200	10/01/03 10/01/03 6
PCB-1242	200.		7.2	140	200	10/02/04
PCB-1248	< 140.	U	15.	140	200	10/01/03 10/01/03
PCB-1254 PCB-1260	< 140.	U	18.	140	200	10/01/03
FCB-1200						

	%R	Qual	%R Limits	Notes
Surrogate 2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	<0.0 <0.0	#	30 - 150 30 - 150	38 38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

**Analytical Results** Method: 8082

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6451 B 1211 Sample:

Sample Description: 4+90-F HP5890-90 Instrument: Units: mg/Kg Dry weight Column Name: DB-1701, 30m x .53mm ID

Number of analytes: 7

09/30/03 Collected:

09/30/03 Received: 10/01/03 Prepared:

Matrix: Solid QC Batch: 100103S1

%Solids: 71.0 Sample Size: 30 g

Primary: N

	Result	Qual	MDL	PQL		Analyzed Notes
Parameter	< 140.	U	13.	140	200	10/02/03
PCB-1016	< 140.	ΰ	45.	140	200	10/02/03
PCB-1221	< 140.	Ü	29.	-140	200	10/02/03
PCB-1232	< 140.	Ü	18.	140	200	10/02/03
PCB-1242	200.	Ţ	7.2	140	200	10/02/03 6
PCB-1248	_	U	15.	140	200	10/02/03
PCB-1254 PCB-1260	< 140. < 140.	U	18.	140	200	10/02/03

	%R	Qual _	%R Limits	Notes
Surrogate 2,4,5,6-Tetrachloro-m-Xylene (surrogate)	0	#	30 - 150 30 - 150	38 38
Decachlorobiphenyl (surrogate)	U	ď		

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project:

GM - Former Landfill

Proj. Desc:

Package#: 6451 B 1212 Sample:

Sample Description: 5+40-F HP5890-89 Instrument: Units: mg/Kg Dry weight Column Name: RTXCLP, 30m x .53mmID

Number of analytes: 7

Collected: Received: Prepared:

09/30/03 09/30/03

10/01/03

Matrix: Solid QC Batch: 100103S1

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

%Solids: 71.0 Sample Size: 30 g

Primary: Y

	Result	Qual	MDL	PQL	Dil	Analyzed Notes
Parameter	< 70.	U	6.3	70	100	10/01/03
PCB-1016	< 70.	Ü	22.	70	100	10/01/03
PCB-1221		บ	15.	70	100	10/01/03
PCB-1232	< 70.		9.0	70	100	10/01/03
PCB-1242	< 70.		3.6	70	100	10/01/03 6
PCB-1248	96.			70	100	10/01/03
PCB-1254	< 70.		7.3	70	100	10/01/03
PCB-1260	< 70.	U	8.8	70	100	- <i>.</i>

	%R	Qual	%R Limits	Notes
Surrogate 2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	<0.0 <0.0	#	30 - 150 30 - 150	38 38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6451 Sample: B 1212

Sample Description: 5+40-F Instrument: HP5890-90

Units: mg/Kg Dry weight Number of analytes: 7

1212 iption: 5+40-F

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 09/30/03 Matrix: Solid

09/30/03

10/01/03

Received:

Prepared:

QC Batch: 100103S1

%Solids: 71.0 Sample Size: 30 g

Primary: N

Resu	1+	Qual	MDL	PQL	Dil	Analyzed Notes
Parameter	70.	U	6.3	70	100	10/02/03
PCB-1016	-	Ü	22.	70	100	10/02/03
PCB-1221	70.	ט	15.	70	100	10/02/03
PCB-1232	70.	U	9.0	70	100	10/02/03
PCB-1242	89.	J	3.6	70	100	10/02/03 6
PCB-1248	70.	ប	7.3	70	100	10/02/03
PCB-1254	70.	Ü	8.8	70	100	10/02/03

		%R			
	%R	Qual	Limits_	Notes	
Surrogate /surrogate)	0	#	30 - 150	38	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	0	#	30 - 150	38	
Decachlorobiphenyl (surrogate)	v	"			

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized: // XV/ X L // Date: October 16, 2003

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6451

Sample: B 1213
Sample Description: 5+90-F
Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

5+90-F

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 09/30/03 Matrix: Solid

Received: 09/30/03 OC Batch: 100103S1

10/01/03

Prepared:

%Solids: 89.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 110.	U	10.	110	200	10/01/03
PCB-1221	< 110.	ប	36.	110	200	10/01/03
PCB-1232	< 110.	บ	23.	110	200	10/01/03
PCB-1242	< 110.	U	14.	110	200	10/01/03
PCB-1248	830.		5.7	110	200	10/01/03 6
PCB-1254	< 110.	U	12.	110	200	10/01/03
PCB-1260	< 110.	ប	14.	110	200	10/01/03

			₹R	
Surrogate	₹R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0	#	30 - 150	38
Decachlorobiphenyl (surrogate)	<0.0	#	30 - 150 <sup>.</sup>	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: October 16, 200

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6451 Sample: B 1213

Sample Description: 5+90-F Instrument:

Units: mg/Kg Dry weight

Number of analytes: 7

HP5890-90

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 09/30/03

Matrix: Solid Received: 09/30/03 QC Batch: 100103S1

Prepared: 10/01/03 %Solids: 89.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 110.	Ü	10.	110	200	10/02/03
PCB-1221	< 110.	U	36.	110	200	10/02/03
PCB-1232	< 110.	U	23.	110	200	10/02/03
PCB-1242	< 110.	U	14.	110	200	10/02/03
PCB-1248	910.		5,7	110	200	10/02/03 6
PCB-1254	< 110.	U	12.	110	200	10/02/03
PCB-1260	< 110.	U	14.	110	200	10/02/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	0	#	30-150	38
Decachlorobiphenyl (surrogate)	0	#	30 <b>-</b> 150 '	38

#### Notes:

6: Altered aroclor. 6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former Landfill

HP5890-89

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Proj. Desc:

Instrument:

Package#:

Units: mg/Kg Dry weight

Number of analytes: 7

6451 Sample: B 1214 Sample Description: 4+40-N

Received: Prepared: 10/01/03

Collected:

Matrix: Solid QC Batch: 100103S1

09/30/03

09/30/03

%Solids: 91.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .54	Ü	.049	. 54	1	10/01/03
PCB-1221	< .54	U	.17	.54	1	10/01/03
PCB-1232	< .54	U	.11	.54	1	10/01/03
PCB-1242	< .54	U	.069	.54	1	10/01/03
PCB-1248	.13	J	.028	. 54	1	10/01/03 6
PCB-1254	< .54	U	.056	.54	1	10/01/03
PCB-1260	< .54	U	.068	.54	1	10/01/03

			₹R	
Surrogate	₹R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	96.		30-150	
Decachlorobiphenyl (surrogate)	71.		30-150	

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6451

Sample: B 1214 Sample Description: 4+40-N

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

10/01/03

Collected: Received: 09/30/03

Prepared:

09/30/03 Matrix: Solid

Job No.: 3435, 124,62301

Certification NY No.: 10155

QC Batch: 100103S1

%Solids: 91.0 Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .54	U	.049	.54	1	10/02/03
PCB-1221	< .54	U	.17	.54	1	10/02/03
PCB-1232	< .54	U	.11	.54	1	10/02/03
PCB-1242	< .54	U	.069	.54	1	10/02/03
PCB-1248	.11	J	.028	.54	1	10/02/03 6
PCB-1254	< .54	U	.056	.54	1	10/02/03
PCB-1260	< .54	U	.068	.54	1	10/02/03

			₹R	
Surrogate	₹R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	120.		30-150	
Decachlorobiphenyl (surrogate)	84.		30-150	

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

6: Altered aroclor. 6: Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6451

Sample: B 1215 Sample Description: 4+90-N

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 124.62301 Certification NY No.: 10155

> 09/30/03 Collected: Received:

Prepared:

09/30/03 10/01/03 Matrix: Solid

QC Batch: 100103S1

%Solids: 90.0 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 11.	U	1.0	11	20	10/02/03
PCB-1221	< 11.	Ū	3.5	11	20	10/02/03
PCB-1232	< 11.	Ū	2.3	11	20	10/02/03
PCB-1242	< 11.	υ	1.4	11	20	10/02/03
PCB-1248	40.	P	.57	11	20	10/02/03
PCB-1254	< 11.	Ū	1.2	11	20	10/02/03
PCB-1260	< 11.	U	1.4	11	20	10/02/03

			₩R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	113.	··	30-150	38
Decachlorobiphenyl (surrogate)	54.		30-150	38

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6451 Sample: B 1215

Sample Description: 4+90-N HP5890-90 Instrument:

Units: mg/Kg Dry weight Number of analytes: 7

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435, 124,62301 Certification NY No.: 10155

09/30/03 Collected: Received: 09/30/03 10/01/03

Prepared:

Matrix: Solid QC Batch: 100103S1

%Solids: 90.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 11.	U	1.0	11	20	10/03/03
PCB-1221	< 11.	U	3.5	11	20	10/03/03
PCB-1232	< 11.	U	2.3	11	20	10/03/03
PCB-1242	< 11.	U	1.4	11	20	10/03/03
PCB-1248	52.	P	.57	11	20	10/03/03
PCB-1254	< 11.	U	1.2	11	20	10/03/03
PCB-1260	< 11.	U	1.4	11	20	10/03/03

Surrogate	%R	Qual	*K Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	91.		30-150	38
Decachlorobiphenyl (surrogate)	77.		30-150	38

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 6451

Sample: B 1216 Sample Description: 5+40-N Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: Received:

Prepared:

09/30/03 09/30/03 10/01/03 Matrix: Solid

QC Batch: 100103S1 %Solids: 90.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 11.	U	1.0	11	20	10/02/03
PCB-1221	< 11.	Ü	3.5	11	20	10/02/03
PCB-1232	< 11.	U	2.3	11	20	10/02/03
PCB-1242	< 11.	Ü	1.4	11	20	10/02/03
PCB-1248	23.	P	.57	11	20	10/02/03
PCB-1254	< 11.	υ	1.2	11	20	10/02/03
PCB-1260	< 11.	Ū	1.4	11	20	10/02/03

			₹R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	123.		30-150	38
Decachlorobiphenyl (surrogate)	55.		30 - 150	38

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6451 Sample: B 1216

Sample Description: 5+40-N Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 09/30/03

Received:

Prepared:

09/30/03

10/01/03

Matrix: Solid

QC Batch: 100103S1

%Solids: 90.0 Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 11.	Ü	1.0	11	20	10/03/03
PCB-1221	< 11.	Ü	3.5	11	20	10/03/03
PCB-1232	< 11.	U	2.3	11	20	10/03/03
PCB-1242	< 11.	U	1.4	11	20	10/03/03
PCB-1248	29.	P	.57	11	20	10/03/03
PCB-1254	< 11.	บ	1.2	11	20	10/03/03
PCB-1260	< 11.	υ	1.4	11	20	10/03/03

			₹R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	95.		30-150	38
Decachlorobiphenyl (surrogate)	81.		30-150	38

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Job No.: 3435, 124,62301

Project: GM - Former Landfill

Certification NY No.: 10155

Proj. Desc:

Package#: 6451 Sample: B 1217

09/30/03 Collected:

Matrix: Solid

Sample Description: 5+90-N Instrument: HP5890-89

Received: 09/30/03

QC Batch: 100103S1 %Solids: 93.0

Units: mg/Kg Dry weight

Prepared: 10/01/03

Sample Size: 30 g

Column Name: RTXCLP, 30m x .53mmID Number of analytes: 7

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 11.	Ü	.97	11	20	10/02/03
PCB-1221	< 11.	Ū	3.4	11	20	10/02/03
PCB-1232	< 11.	Ü	2.2	11	20	10/02/03
PCB-1242	< 11.	U	1.4	11	20	10/02/03
PCB-1248	23.	P	.55	11	20	10/02/03 6
PCB-1254	< 11.	Ū	1.1	11	20	10/02/03
PCB-1260	< 11.	U	1.3	11	20	10/02/03

			%R	
Surrogate	₽R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	110.		30-150	38
Decachlorobiphenyl (surrogate)	53.		30 - 150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Analytical Results Method: 8082

09/30/03

09/30/03

10/01/03

Collected:

Received:

Prepared:

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6451 Sample: B 1217

Sample Description: 5+90-N Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

6451 B 1217 cription: 5+90-N

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Matrix: Solid
QC Batch: 100103S1

%Solids: 93.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 11.	Ü	.97	11	20	10/03/03
PCB-1221	< 11.	U	3.4	11	20	10/03/03
PCB-1232	< 11.	U	2.2	11	20	10/03/03
PCB-1242	< 11.	Ū	1.4	11	20	10/03/03
PCB-1248	31.	P	.55	11	20	10/03/03 6
PCB-1254	< 11.	Ū	1.1	11	20	10/03/03
PCB-1254	< 11.	Ü	1.3	11	20	10/03/03

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	89.	<u> </u>	30-150	38
Decachlorobiphenvl (surrogate)	79.		30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized: 16, 2003

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Proj. Desc:

Units:

Package#: 6527 Sample:

Number of analytes: 7

B 1646 Sample Description: 5+85 N-A

Instrument: HP5890-90 mg/Kg Dry weight

10/09/03 Collected: Received: 10/09/03

Matrix: Solid

QC Batch: 101003S1

Prepared: 10/10/03 %Solids: 62.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 40.	U	3.6	40	50	10/16/03
PCB-1221	< 40.	U	13.	40	50	10/16/03
PCB-1232	< 40.	U	8.4	40	50	10/16/03
PCB-1242	< 40.	υ	5.2	40	50	10/16/03
PCB-1248	210.		2.1	40	50	10/16/03
PCB-1254	< 40.	U	4.2	40	50	10/16/03
PCB-1260	< 40.	U	5.0	40	50	10/16/03

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	82.		30-150	38
Decachlorobiphenyl (surrogate)	88.		30-150	38

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: October 23, 2003

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 6527 Sample:

Sample Description: 5+85 N-A HP5890-90 Instrument:

Units: mg/Kg Dry weight Number of analytes: 7

B 1646

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

10/09/03 Collected:

Received:

Prepared:

10/09/03 10/10/03 Matrix: Solid

QC Batch: 101003S1

%Solids: 62.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL_	PQL	Dil	Analyzed Notes
PCB-1016	< 40.	U	3.6	40	50	10/14/03
PCB-1221	< 40.	U	13.	40	50	10/14/03
PCB-1232	< 40.	U	8.4	40	50	10/14/03
PCB-1242	< 40.	U	5.2	40	50	10/14/03
PCB-1248	240.		2.1	40	50	10/14/03
PCB-1254	< 40.	U	4.2	40	50	10/14/03
PCB-1260	< 40.	U	5.0	40	50	10/14/03

Surrogate	%R	Qual	*R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	97.		30-150	38
Decachlorobiphenyl (surrogate)	108.		30 - 150	38

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Thomas Alexander

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**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Sample: B 1647

Sample Description: 5+85 N-B

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/09/03

Collected: Matrix: Solid Received: 10/09/03 QC Batch: 101003S1

Prepared: 10/10/03 %Solids: 85.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 5.9	U	.53	5.9	10	10/11/03
PCB-1221	< 5.9	U	1.9	5.9	10	10/11/03
PCB-1232	< 5.9	U	1.2	5.9	10	10/11/03
PCB-1242	< 5.9	U	.75	5.9	10	10/11/03
PCB-1248	14.		.30	5.9	10	10/11/03 6
PCB-1254	< 5.9	U	.61	5.9	10	10/11/03
PCB-1260	< 5.9	U	.73	5.9	10	10/11/03

		_	%R	
Surrogate	₹R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	106.		30-150	38
Decachlorobiphenyl (surrogate)	99.		30 - 150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: October 23, 2003 Thomas Alexander

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Sample: B 1647

Sample Description: 5+85 N-B Instrument: HP5890-90

Unite ma/Ka Day

Units: mg/Kg Dry weight Number of analytes: 7

es: 7 Column Name: DB-608, 30m x .53mm ID

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 10/09/03

Received:

Prepared:

10/09/03 10/09/03

10/10/03

Matrix: Solid

QC Batch: 101003S1

%Solids; 85.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 2.9	ט	.26	2.9	5	10/13/03
PCB-1221	< 2.9	ប	.93	2.9	5	10/13/03
PCB-1232	< 2.9	U	.61	2.9	5	10/13/03
PCB-1242	< 2.9	บ	.38	2.9	5	10/13/03
PCB-1248	8.0		P .15	2.9	5	10/13/03 6
PCB-1254	< 2.9	U	.31	2.9	5	10/13/03
PCB-1260	< 2.9	U	.37	2.9	5	10/13/03

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	109.		30-150	38
Decachlorobiphenyl (surrogate)	93.		30-15Ó	38

#### Notes:

- 6: Altered aroclor.
- 6: Altered aroclor.
- 38: Surrogate was diluted
- 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527

5+85 N-C Sample Description: HP5890-90 Instrument:

Number of analytes: 7

Sample: B 1648

Units: mg/Kg Dry weight Column Name: DB-1701, 30m x .53mm ID

Collected: Received:

Prepared:

10/09/03 10/09/03 Matrix: Solid

10/10/03

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

QC Batch: 101003S1

%Solids: 37.0

Sample Size: 30 g

Primary: Y

	Result Qual	MDL	PQL	Dil	Analyzed Notes
Parameter		120.	1400	1000	10/11/03
PCB-1016		430.	1400	1000	10/11/03
PCB-1221	< 1400. U	280.	1400	1000	10/11/03
PCB-1232	< 1400. U	170.	1400	1000	10/11/03 6
PCB-1242	5400.	69.	1400	1000	10/11/03
PCB-1248	< 1400. U	140.	1400	1000	10/11/03
PCB-1254	< 1400. U		1400	1000	
PCB-1260	< 1400. U	170.	1400	2000	•

	₹R	Qual	%R Limits	Notes
Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)	0		30 - 150	38
Decachlorobiphenyl (surrogate)	0		30-150	38

#### Notes:

- 6: Altered aroclor.
- 6: Altered aroclor.
- 38: Surrogate was diluted
- 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Proj. Desc:

Package#: 6527 Sample:

B 1648

Sample Description: 5+85 N-C Instrument:

mg/Kg Dry weight Units:

Number of analytes: 7

HP5890-90

Column Name: DB-608, 30m x .53mm ID

Collected:

Received:

Prepared:

10/09/03 10/09/03

10/10/03

Matrix: Solid

QC Batch: 101003S1

%Solids: 37.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Not	tes
PCB-1016	< 1400.	υ	120.	1400	1000	10/13/03	
PCB-1221	< 1400.	U	430.	1400	1000	10/13/03	
PCB-1232	< 1400.	U	280.	1400	1000	10/13/03	
PCB-1242	4400.		170.	1400 '	1000	10/13/03	6
PCB-1248	< 1400.	U	69.	1400	1000	10/13/03	
PCB-1254	< 1400.	U	140.	1400	1000	10/13/03	
PCB-1260	< 1400.	υ	170.	1400	1000	10/13/03	

			₹R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0	#	30 - 150	38
Decachlorobiphenyl (surrogate)	<0.0	#	30 - 150 ·	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 6527 Sample: B 1649

Sample Description: 5+85 F Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

10/09/03 Collected:

Matrix: Solid

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Received: 10/09/03 Prepared: 10/10/03

QC Batch: 101003S1

%Solids: 52.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	_Dil	Analyzed 1	Notes
PCB-1016	< 9.6	U	.87	9.6	10	10/11/03	
PCB-1221	< 9.6	U	3.0	9.6	10	10/11/03	
PCB-1232	< 9.6	U	2.0	9.6	10	10/11/03	
PCB-1242	13.		1.2	9.6	10	10/11/03	6
PCB-1248	< 9.6	U	.49	9.6	10	10/11/03	
PCB~1254	< 9.6	U	1.0	9.6	10	10/11/03	
PCB-1260	< 9.6	Ŭ	1.2	9.6	10	10/11/03	

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	108.		30-150	38
Decachlorobiphenyl (surrogate)	97.		30-150	38

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Sample: B 1649

Sample: B 1649
Sample Description: 5+85 F

Instrument: HP 5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

on - round bandin

Collected:

10/09/03

Matrix: Solid

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

QC Batch: 101003S1

Received: 10/09/03 QC Prepared: 10/10/03 %S

%Solids: 52.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed	Notes
PCB-1016	< 4.8	U	.43	4.8	5	10/14/03	
PCB-1221	< 4.8	U	1.5	4.8	5	10/14/03	
PCB-1232	< 4.8	บ	1.0	4.8	5	10/14/03	
PCB-1242	13.		.61	4.8	5	10/14/03	6
PCB-1248	< 4.8	U	. 25	4.8	5	10/14/03	
PCB-1254	< 4.8	U	.50	4.8	5	10/14/03	
PCB-1260	< 4.8	ט	.60	4.8	5	10/14/03	

·			₹R	
Surrogate	<del>የ</del> ጽ	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	116.		30 - 150	38
Decachlorobiphenyl (surrogate)	90.		30-150	38

Column Name: DB-608, 30m x .53mm ID

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Sample: B 1650

Sample Description: 5+40 N-B

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/09/03 Collected:

Matrix: Solid

Received: 10/09/03 Prepared: 10/10/03

QC Batch: 101003S1

%Solids: 84.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 3.0	Ü	.27	3	5	10/11/03
PCB-1221	< 3.0	Ū	.94	3	5	10/11/03
PCB-1232	< 3.0	Ū	.62	3	5	10/11/03
PCB-1242	< 3.0	Ū	.38	3 .	5	10/11/03
PCB-1248	7.3		.15	3	5	10/11/03
PCB-1254	< 3.0	Ū	.31	3	5	10/11/03
PCB-1260	< 3.0	U	.37	3	5	10/11/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	125.		30-150	38
Decachlorobiphenyl (surrogate)	114.		30-150	38

#### Notes:

Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

### O'Brien & Gere Laboratories, Inc.

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Sample: B 1650

Sample Description: 5+40 N-B Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected:

10/09/03

10/10/03

Matrix: Solid

Received: 10/09/03 Prepared:

QC Batch: 101003S1

%Solids: 84.0

Sample Size: 30 g

Primary: N

Parameter	Pagula	A	_			
PCB-1016	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1221	< 3.0	Ū	.27	3	5	10/11/03
PCB-1232	< 3.0	U	.94	3	5	10/11/03
PCB-1242	< 3.0	U	.62	3	5	10/11/03
PCB-1248	< 3.0	Ū	.38	3	5	10/11/03
PCB-1254	6.1		.15	3	5	10/11/03
PCB-1260	< 3.0	ប	.31	3	5	10/11/03
	< 3.0	U	.37	3	5	10/11/03

Surrogate 2,4,5,6-Tetrachloro-m-Xylene (surrogate)	%R	Qual	%R Limits	Notes
Decachlorobiphenyl (surrogate)	116.		30-150	38
-ry= (bastogace)	97.		30 - 15ó	2.0

Column Name: DB-608, 30m x .53mm ID

### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

### O Ditell & Gere Laboratories, Inc.

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Job No.: 3435, 124,62301 Certification NY No.: 10155

Proj. Desc:

Instrument:

Units:

Package#: 6527 Sample:

B 1651 Sample Description:

5+40 N-C

HP5890-90

mg/Kg Dry weight Number of analytes: 7 Column Name: DB-1701, 30m x .53mm ID

Collected:

10/09/03

Matrix: Solid

QC Batch: 101003S1

Received: 10/09/03 Prepared: 10/10/03

%Solids: 38.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 660.	U	59.	660	500	10/11/03
PCB-1221	< 660.	U	210.	660	500	10/11/03
PCB-1232	< 660.	U	140.	660	500	10/11/03
PCB-1242	< 660.	U	84.	660	500	10/11/03
PCB-1248	. 5600.		34.	660	500	10/11/03 6
PCB-1254	< 660.	U	68.	660	500	10/11/03
PCB-1260	< 660.	U	82.	660	500	10/11/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0	#	30-150	38
Decachlorobiphenyl (surrogate)	<0.0	#	30 - 15 <i>0</i>	38

### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

Date: October 23, 2003

Authorized:

Thomas Alexander

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

### O DITCH & Gele Laboratories, Inc.

Method: 8082

10/10/03

Client: O'Brien & Gere Engineers, Inc. Project:

GM - Former Landfill

Proj. Desc:

Package#: 6527

Samole: B 1651

Sample Description:

Instrument: HP5890-90

Units: mg/Kg Dry weight Number of analytes: 7

5+40 N-C

Column Name: DB-608, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/09/03 Collected:

Received:

Prepared:

Matrix: Solid

10/09/03 QC Batch: 101003S1

%Solids: 38.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 660.	U	59.	660	500	10/11/03
PCB-1221	< 660.	U	210.	660	500	10/11/03
PCB-1232	< 660.	Ŭ	140.	660	500	10/11/03
PCB-1242	< 660.	ប	84.	660	500	10/11/03
PCB-1248	3000.	3	P 34.	660	500	10/11/03 6
PCB-1254	< 660.	U	68.	660	500	10/11/03
PCB-1260	< 660.	U	82.	660	500	10/11/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0	#	30-150	38
Decachlorobiphenyl (surrogate)	<0.0	# .	30 - 150´	38

#### Notes:

- 6: Altered aroclor.
  - 6: Altered aroclor.
- 38: Surrogate was diluted
- 38: Surrogate was diluted

Authorized:

Date: October 23, 2003

Thomas Alexander

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project:

Proj. Desc:

Package#: 6527 Samole: B 1652

Sample Description: 5+40 F Instrument: HP5890-90

mg/Kg Dry weight Units:

Number of analytes: 7

GM - Former Landfill

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

10/09/03 Collected: Received: 10/09/03

Matrix: Solid QC Batch: 101003S1

Prepared: 10/10/03 %Solids: 39.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 6.4	U	.58	6.4	5	10/11/03
PCB-1221	< 6.4	ซ	2.0	6.4	5	10/11/03
PCB-1232	< 6.4	ับ	1.3	6.4	5	10/11/03
PCB-1242	< 6.4	Ū	.82	6.4	5	10/11/03
PCB-1248	44.	_	.33	6.4	5	10/11/03 6
PCB-1254	< 6.4	υ	.67	6.4	5	10/11/03
PCB-1260	< 6.4	บ	.80	6.4	5	10/11/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	108.		30-150	38
Decachlorobiphenyl (surrogate)	97.		30-150	38

Column Name: DB-1701, 30m x .53mm ID

### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Samole: B 1652

Sample Description: 5+40 F

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

weight
7 Column Name: DB-608, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/09/03

Received:

Prepared:

10/09/03

10/10/03

Matrix: Solid

QC Batch: 101003S1

%Solids: 39.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB~1016	< 6.4	Ŭ	.58	6.4	5	10/11/03
PCB-1221	< 6.4	U	2.0	6.4	5	10/11/03
PCB-1232	< 6.4	U	1.3	6.4	5	10/11/03
PCB-1242	< 6.4	U	.82	6 4	5	10/11/03
PCB-1248	27.		P .33	6.4	5	10/11/03 6
PCB-1254	< 6.4	Ŭ	.67	6.4	5	10/11/03
PCB-1260	< 6.4	U	.80	6.4	5	10/11/03

Surrogate	₹R	Oual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	103.	<del> </del>	30-150	38
Decachlorobiphenyl (surrogate)	85.		30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

Auth

Date: October 23, 2003

B - Analyte detected above the PQL in the associated Prep Blank.

<sup># -</sup> Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

**Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Sample: B 1654

Sample Description: 4+85 F

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected:

10/09/03

10/10/03

Matrix: Solid

Received: 10/09/03 Prepared:

QC Batch: 101003S1

%Solids: 55.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 9.1	U	.82	9.1	10	10/11/03
PCB-1221	< 9.1	υ	2.9	9.1	10	10/11/03
PCB-1232	< 9.1	Ü	1.9	9.1	10	10/11/03
PCB-1242	< 9.1	Ŭ	1.2	9.1	10	10/11/03
PCB-1248	18.	-	.46	9.1	10	10/11/03
PCB-1254	< 9.1	U	.94	9.1	10	10/11/03
PCB-1260	< 9.1	Ū	1.1	9.1	10	10/11/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	96.	-	30-150	38
Decachlorobiphenyl (surrogate)	83.		30 <b>-</b> 150 ·	38

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Sample: B 1654

Sample Description: 4+85 F Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

Received:

Column Name: DB-608, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/09/03 Matrix: Solid 10/09/03

10/10/03

Prepared:

QC Batch: 101003S1 %Solids: 55.0

Sample Size: 30 g

Primary: N

Parameter	_					•
PCB-1016	Result	Qual	MDL	PQL	Dil	Amalumad area
PCB-1221	< 9.1	Ū	. 82	9.1	10	Analyzed Notes
PCB-1232	< 9.1	Ū	2.9	9.1	10	10/11/03
PCB-1242	< 9.1	U	1.9	9.1	10	10/11/03
PCB-1248	< 9.1	Ū	1.2	9.1	10	10/11/03
PCB-1254	16.		-46	9.1	10	10/11/03
PCB-1260	< 9.1	U	.94	9.1	10	10/11/03
• _	< 9.1	U	1.1	9.1	10	10/11/03

Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)	%R	Qual	tR Limits	Notes
Decachlorobiphenyl (surrogate)	103.		30-150	38
	76.		30-150	38

### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

**Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Sample: B 1655

Samole: B 1655

Sample Description: 4+85 N-B Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

Collected

Prepared:

Collected: 10/09/03 Received: 10/09/03

10/09/03 10/10/03 Matrix: Solid

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

QC Batch: 101003S1

%Solids: 59.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .85	U	.076	. 85	1	10/11/03
PCB-1221	< .85	U	.27	.85	1	10/11/03
PCB-1232	< .85	U	.18	.85	1	10/11/03
PCB-1242	. < .85	υ	.11	.85	1	10/11/03
PCB-1248	.70	J	.043	. 85	1	10/11/03
PCB-1254	< .85	U	.088	.85	1	10/11/03
PCB-1260	< .85	U	.11	. 85	1	10/11/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	106.		30-150	
Decachlorobiphenyl (surrogate)	90.		30-150	

Column Name: DB-1701, 30m x .53mm ID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Sample: B 1655

Sample Description: 4+85 N-B Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/09/03

10/10/03

Received: 10/09/03 Prepared:

Matrix: Solid QC Batch: 101003S1

%Solids: 59.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .85	U	.076	.85	1	10/11/03
PCB-1221	< .85	Ü	.27	.85	1	10/11/03
PCB-1232	< .85	Ü	18	.85	1	10/11/03
PCB-1242	< .85	Ū	.11	.85	1	10/11/03
PCB-1248	.51	J	P .043	.85	1	10/11/03
PCB-1254	< .85	บ	.088	.85	1	10/11/03
PCB-1260	< .85	Ü	.11	.85	1	10/11/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	84.		30-150	· · · · · · · · · · · · · · · · · · ·
Decachlorobiphenyl (surrogate)	72.		30 - 150	

Column Name: DB-608, 30m x .53mm ID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Method: 8082

10/09/03

10/10/03

Collected:

Received:

Prepared:

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 6527 Sample: B 1656

Sample Description:

Instrument: HP5890-90 mg/Kg Dry weight Units:

Number of analytes: 7

4+85 N-C

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/09/03 Matrix: Solid

QC Batch: 101003S1

%Solids: 41.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	707		
PCB-1016				PQL	Dil	Analyzed Notes
·	< 2400.	U	220.	2400	2000	10/15/03
PCB-1221	< 2400.	U	770.	2400	2000	10/15/03
PCB-1232	< 2400.	U	510.	2400	2000	10/15/03
PCB-1242	< 2400.	บ	310.	2400	2000	10/15/03
PCB-1248	18000.				2000	
PCB-1254	18000.		120.	2400	2000	10/15/03
	< 2400.	Ū	250.	2400	2000	10/15/03
PCB-1260	< 2400.	ប	300.	2400	2000	10/15/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0	#	30-150	38
Decachlorobiphenyl (surrogate)	<0.0	#	30 - 15ď	3.8

### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Sample: B 1656

Sample Description: 4+85 N-C

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

B 1656

Column Name: DB-608, 30m x .53mm ID

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 10/09/03

Matrix: Solid

Received: 10/09/03 QC Batch: 101003S1 Prepared: 10/10/03 %Solide: 41.0

%Solids: 41.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Amalasmad Makes
PCB-1016						Analyzed Notes
DGD 1001	< 2400.	U	220.	2400	2000	10/13/03
PCB-1221	< 2400.	U	770.	2400	2000	10/13/03
PCB-1232	< 2400.	U	510.	2400		
PCB-1242		_	510.	2400	2000	10/13/03
<del>-</del>	< 2400.	U	310.	2400	2000	10/13/03
PCB-1248	12000.	P	120.	2400	2000	10/13/03
PCB-1254	< 2400.	77	-	-		
DGD 1060	< 2400.	Ŭ	250.	2400	2000	10/13/03
PCB-1260	< 2400.	U	300.	2400	2000	10/13/03

Surrogate	%R%	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0	#	30-150	38
Decachlorobiphenyl (surrogate)	<0.0	#	30-15Ó	3.8

#### Notes:

38: Surrogate was diluted38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:\_\_

Date: October 23, 2003

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Units:

Package#: 6527

Sample: B 1657

Sample Description: Instrument: HP5890-90

mg/Kg Dry weight

Number of analytes: 7

4+40 N-B

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/09/03 Collected:

10/10/03

Received:

Prepared:

Matrix: Solid 10/09/03

QC Batch: 101003S1

%Solids: 74.0

Sample Size: 30 g

Primary: Y

Parameter	Result Qua	1 MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 6.8 U	.61	6.8	10	
PCB-1221	< 6.8 U	2.1	6.8		10/11/03
PCB-1232	< 6.8 U	1.4		10	10/11/03
PCB-1242	< 6.8 U		6.8	10	10/11/03
PCB-1248	48.	. 86	6.8	10	10/11/03
PCB-1254		. 34	6.8	10	10/11/03
PCB-1260	< 6.8 U	.70	6.8	10	10/11/03
100 1200	. < 6.8 U	.84	6.8	10	10/11/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	103.		30-150	38
Decachlorobiphenyl (surrogate)	102.		30 - 150 <sup>°</sup>	3.8

### Notes:

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Sample: B 1657

Sample Description: 4+40 N-B

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected:

10/09/03

Matrix: Solid

Received: Prepared: 10/09/03 10/10/03

QC Batch: 101003S1

%Solids: 74.0

Sample Size: 30 g

~	· DEC.
Prima	ry: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 6.8	U	-61	6.8	10	10/11/03
PCB-1221	< 6.8	Ū	2.1	6.8	10	10/11/03
PCB-1232	< 6.8	U	1.4	6.8	10	10/11/03
PCB-1242	< 6.8	ប	.86	6.8	10	10/11/03
PCB-1248	31.		P .34	6.8	10	10/11/03
PCB-1254	< 6.8	Ū	.70	6.8	10	10/11/03
PCB-1260	< 6.8	ប	.84	6.8	10	10/11/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	108.		30-150	38
Decachlorobiphenyl (surrogate)	92.		30 <b>-</b> 15σ	38

Column Name: DB-608, 30m x .53mm ID

### Notes:

38: Surrogate was diluted Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Samole: B 1658

Sample Description: 4+40 N-C

Instrument: HP5890-90

Units: mg/Kg Dry weight Number of analytes: 7

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/09/03

10/09/03

Matrix: Solid QC Batch: 101003S1

Prepared: 10/10/03

Received:

%Solids: 44.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 1100.	U	100.	1100	1000	10/11/03
PCB-1221	< 1100.	U	350.	1100	1000	10/11/03
PCB-1232	< 1100.	U	230.	1100	1000	10/11/03
PCB-1242	< 1100.	U	140.	1100	1000	10/11/03
PCB-1248	6700.		57.	1100	1000	10/11/03 6
PCB-1254	< 1100.	U	120.	1100	1000	10/11/03
PCB-1260	< 1100.	U	140.	1100	1000	10/11/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	0		30-150	38
Decachlorobiphenyl (surrogate)	0		30-15Ò	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

Authorized:

Date: October 23, 2003

Thomas Alexander

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527

Sample: B 1658

Sample Description: 4+40 N-C

Instrument:

HP5890-90

Units: mg/Kg Dry weight

Der weicht

Number of analytes: 7

Column Name: DB-608, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Cerunication NT No., 1015.

Collected: 10/09/03

Received:

Prepared:

10/09/03 10/09/03

10/10/03

Matrix: Solid

QC Batch: 101003S1

%Solids: 44.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 1100.	U	100.	1100	1000	10/11/03
PCB-1221	< 1100.	U	350.	1100	1000	10/11/03
PCB-1232	< 1100.	U	230.	1100	1000	10/11/03
PCB-1242	< 1100.	U	140.	1100	1000	10/11/03
PCB-1248	3800.	3	P 57.	1100	1000	10/11/03 6
PCB-1254	< 1100.	Ū	120.	1100	1000	10/11/03
PCB-1260	< 1100.	U	140.	1100	1000	10/11/03

Surrogate	%R	Oual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	<0.0	#	30 - 150	38
Decachlorobiphenyl (surrogate)	<0.0	#	30 - 15Ó	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

Authorized:

Date: October 23, 2003

B - Analyte detected above the PQL in the associated Prep Blank.

<sup># -</sup> Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Sample: B 1659

Sample Description: 4+40 F

Instrument: HP5890-90

Units: mg/Kg Dry weight Number of analytes: 7

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435 124 62301

Certification NY No.: 10155

10/09/03 Collected: 10/09/03

Received:

Prepared:

Matrix: Solid QC Batch: 101003S1

10/10/03 %Solids: 61.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .82	Ŭ	.074	.82	1	10/11/03
PCB-1221	< .82	U	.26	.82	1	10/11/03
PCB-1232	< .82	ប	.17	.82	1	10/11/03
PCB-1242	< .82	U	.10	.82	1	10/11/03
PCB-1248	1.0		.042	. 82	1	10/11/03
PCB-1254	< .82	U	.085	.82	1	10/11/03
PCB-1260	< .82	U	.10	.82	1	10/11/03

			₹R	•
Surrogate	₹R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	120.		30-150	
Decachlorobiphenyl (surrogate)	84.		30 - 15 <b>0</b>	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Thomas Alexander

Method: 8082

10/09/03

10/10/03

Collected:

Received:

Prepared:

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Samole:

Sample Description:

4+40 F Instrument: HP5890-90

Number of analytes: 7

B 1659

Units: mg/Kg Dry weight

Column Name: DB-608, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/09/03 Matrix: Solid

QC Batch: 101003S1

%Solids: 61.0 Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .82	Ū	.074	.82	1	10/11/03
PCB-1221	< .82	U	.26	.82	1	10/11/03
PCB-1232	< .82	ט	.17	.82	1	10/11/03
PCB-1242	< .82	U	.10	.82	1	10/11/03
PCB-1248	. 92		.042	.82	1	10/11/03
PCB-1254	< .82	υ	.085	.82	1	10/11/03
PCB-1260	< .82	U	.10	.82	1	10/11/03

Surrogate	₹R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	95.		30-150	
Decachlorobiphenyl (surrogate)	70.		30 - 150	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Client: O'Brien & Gere Engineers, Inc.

**Analytical Results** Wet Chemistry

Job No.:

3435.124.62301

Certification NY No.: 10155

Project: GM - Former Landfill Proj. Desc:

Package#: 6527 Sample: B1646

Samp. Description: 5+85 N-A

Collected: 10/09/03

Matrix:

Received: 10/09/03 16:35

Solid

Number of Analytes: 1

Parameter % Total Solids	Result 61.5	Q Units	Method 2540-G	MDL PQ	L Analyzed 0 10/10/03	QC Batch Dil Note
Notes:				1.	0 10/10/03	10100389 1

Package#: 6527 Sample: B1647

Samp. Description: 5+85 N-B

Collected: 10/09/03

Received: 10/09/03 16:35

Matrix: Solid Number of Analytes: 1

Parameter Result Units Method % Total Solids MDL Analyzed QC Batch Dil Note 84.7 2540-G 1.0 10/10/03 10100389 Notes:

Package#: 6527 Sample: B1648

Samp. Description: 5+85 N-C

Collected: 10/09/03

Received: 10/09/03 16:35

Matrix: Solid Number of Analytes: 1

Parameter Result Units Method % Total Solids PQL Analyzed QC Batch Dil Note 37.4 2540-G 1.0 10/10/03 10100389 Notes:

B - Analyte detected above the PQL in the associated Prep Blank

U - Undetected at the reported level.

J - Reported value is estimated. D- Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

Authorized:

Date: October 21, 2003 Thomas Alexander

Client: O'Brien & Gere Engineers, Inc.

Analytical Results Wet Chemistry

Job No.:

3435.124.62301

Certification NY No.: 10155

Project: GM - Former Landfill Proj. Desc:

Package#: 6527

Sample: B1649

Samp. Description: 5+85 F

Collected: 10/09/03

Received: 10/09/03 16:35

Matrix: Solid

Number of Analytes: 1

Parameter	Result	Q Units	Method	MDL PQL Analyzed	QC Batch Dil Note
% Total Solids	52.3	8	2540-G	1.0 10/10/03	101003S9 1

Notes:

Package#: 6527

Sample: B1650

Samp. Description: 5+40 N-B

Collected: 10/09/03

Received: 10/09/03 16:35

Matrix: Solid

Number of Analytes: 1

Parameter Units Method PQL Analyzed QC Batch Dil Note % Total Solids 84.0 2540-G 1.0 10/10/03 10100359

Notes:

Package#: 6527

Sample: B1651

Samp. Description: 5+40 N-C

Collected: 10/09/03

Received: 10/09/03 16:35

Matrix: Solid Number of Analytes: 1

Parameter	Result	Q Units	Method	MDL	POL	Analyzed	QC Batch Dil Note
% Total Solids	37.5	85	2540-G			10/10/03	101003S9 1

Notes:

B - Analyte detected above the PQL in the associated Prep Blank

U - Undetected at the reported level.

J - Reported value is estimated. D- Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

Authorized:

Date: October 21, 2003 Thomas Alexander

Wet Chemistry

3435.124.62301

Job No.:

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6527 Sample: B1652

Samp. Description: 5+40 F

Certification NY No.: 10155

Collected: 10/09/03

Received: 10/09/03 16:35

Matrix: Solid

Number of Analytes: 1

Parameter	Result	Q	Units	Method	MDL	PQL	Analyzed	QC Batch Dil	Note
% Total Solids	39.2	ş	*	2540-G			10/10/03	10100389 1	

Notes:

Package#: 6527

Sample: B1653

Samp. Description: COB-1

Collected: 10/09/03

Received: 10/09/03 16:35

Matrix: Solid Number of Analytes: 1

Parameter	Result	Q	Units	Method	MDL	POL	Analyzed	QC Batch Dil Note
% Total Solids	81.6		€	2540-G			10/10/03	101003S9 1

Notes:

Package#: 6527

Sample: B1654

Samp. Description: 4+85 F

Collected: 10/09/03

Received: 10/09/03 16:35

Matrix: Solid Number of Analytes: 1

Parameter	Result	Q Units	Method	MDL PQL Analyzed	QC Batch Dil Note
% Total Solids	55.4	8	2540-G	1.0 10/10/03	101003S9 1

Notes:

B - Analyte detected above the PQL in the associated Prep Blank

U - Undetected at the reported level.

J - Reported value is estimated. D- Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

Authorized:

Date: October 21, 2003

Thomas Alexander

Client: O'Brien & Gere Engineers, Inc.

Analytical Iccounts **Wet Chemistry** 

> 3435.124.62301 Job No.:

Certification NY No.: 10155

Proj. Desc:

Package#: 6527

Sample: B1655

Samp. Description: 4+85 N-B

Project: GM - Former Landfill

Collected: 10/09/03

Received: 10/09/03 16:35

Matrix: Solid Number of Analytes: 1

Parameter	Result	Q Units	Method	MDL PQL Analyzed	QC Batch Dil Note
% Total Solids	58.6	ક	2540-G	1.0 10/10/03	10100389 1

Notes:

Package#: 6527

Sample: B1656

Samp. Description: 4+85 N-C

Collected: 10/09/03

Received: 10/09/03 16:35

Matrix: Solid Number of Analytes: 1

Parameter	Result	Q	Units	Method	MDL	PQL	Analyzed	QC Batch Dil Note
% Total Solids	41.0		8	2540-G		1.0	10/10/03	10100389 1

Notes:

Package#: 6527

Sample: B1657

Samp. Description: 4+40 N-B

Collected: 10/09/03

Received: 10/09/03 16:35

Matrix: Solid Number of Analytes: 1

Parameter	Result	Q	Units	Method	MDL	PQL	Analyzed	QC Batch Dil Note
% Total Solids	74.0		€	2540-G			10/10/03	10100389 1

Notes:

B - Analyte detected above the PQL in the associated Prep Blank

U - Undetected at the reported level.

J - Reported value is estimated. D- Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

Authorized:

Date: October 21, 2003

Thomas Alexander

Thomas a Clefande

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6546 Sample:

Sample Description: NIMO 1+74

Instrument: HP5890-90

Units: mg/Kg Dry weight Number of analytes: 7

B1814

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/13/03

Matrix: Solid

Received: 10/13/03

QC Batch: 101403S1

Prepared: 10/14/03

%Solids: 74.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .68	Ü	.061	. 68	1	10/15/03
PCB-1221	< .68	Ü	.21	. 68	1	10/15/03
PCB-1232	< .68	Ü	.14	. 68	1	10/15/03
PCB-1242	< .68	Ü	.086	.68	1	10/15/03
PCB-1248	.11	J	.034	.68	1	10/15/03
PCB-1254	< .68	Ü	.070	.68	1	10/15/03
PCB-1260	< .68	ΰ	.084	. 68	1	10/15/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	130.		30-150	
Decachlorobiphenyl (surrogate)	93.		30-150	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: October 30, 2003

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6546 Sample: B 1814

Sample Description: NIMO 1+74

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: DB-608, 30m x .53mm ID

Collected: Received:

Prepared:

10/13/03 10/13/03 Matrix: Solid

QC Batch: 101403S1

10/14/03 %Solids: 74.0

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	100			
PCB-1016			MDL	PQL	<u>Dil</u>	Analyzed Notes
PCB-1221	< .68	Ū	.061	.68	1	10/14/03
PCB-1232	< .68	Ü	.21	. 68	1	10/14/03
PCB-1242	< .68	U	.14	.68	1	10/14/03
PCB-1248	< .68	Ū	.086	.68	1	10/14/03
PCB-1254	.10	J	.034	. 68	1	10/14/03
PCB-1260	< .68	U	.070	.68	1	10/14/03
102 1200	< .68	Ü	.084	.68	1	10/14/03

Surrogate 2,4,5,6-Tetrachloro-m-Xylene (surrogate)	%R	Qual	%R ual Limits Note	
Decachlorobiphenyl (surrogate)	102. 92.		30 - 150 30 - 150	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 30, 2003

**Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6546

Sample: B 1815

Sample Description: NIMO 2+88

Instrument: HP5890-90

mg/Kg Dry weight

Units: Number of analytes: 7

10/13/03

Matrix: Solid

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: Received: 10/13/03

QC Batch: 101403S1

Prepared: 10/14/03

%Solids: 75.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .67	Ü	.060	. 67	1	10/14/03
PCB-1221	< .67	Ū	.21	. 67	1	10/14/03
PCB-1232	< .67	U	.14	. 67	1	10/14/03
PCB-1242	< .67	U	.085	.67	1	10/14/03
PCB-1248	.093	J	.034	. 67	1	10/14/03
PCB-1254	< .67	U	.069	. 67	1	10/14/03
PCB-1260	< .67	U	.083	. 67	1	10/14/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	103.		30 - 150	
Decachlorobiphenyl (surrogate)	97.		30-150	

Column Name: DB-608, 30m x .53mm ID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 28, 2003

**Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6546 Sample: B1815

Sample Description: NIMO 2+88

Instrument: HP5890-90

Units: mg/Kg Dry weight Number of analytes: 7

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

10/13/03 Collected: Matrix: Solid Received: 10/13/03

10/14/03

Prepared:

QC Batch: 101403S1

%Solids: 75.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .67	Ü	.060	.67		10/15/03
PCB-1221	< .67	Ü	.21	.67	1	10/15/03
PCB-1232	< .67	Ū	.14	.67	1	10/15/03
PCB-1242	< .67	Ü	.085	.67	1	10/15/03
PCB-1248	.096	J	.034	.67	1	10/15/03
PCB-1254	< .67	Ü	.069	.67	1	
PCB-1260	< .67	Ü			1	10/15/03
•	.07	U	.083	. 67	1	10/15/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	131.		30-150	
Decachlorobiphenyl (surrogate)	101.		30-150	

Notes:

Authorized:

Date: October 28, 2003

Thomas Alexander

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

I - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6546 Sample: B 1816

Sample Description: NIMO 4+85

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: DB-608, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/13/03 Received:

Matrix: Solid QC Batch: 101403S1

10/13/03 Prepared: 10/14/03 %Solids: 90.0

Sample Size: 30 g

Primary: Y

Parameter	<b>5</b>					
PCB-1016	Result	Qual	MOL	PQL	Dil	Analyzed Notes
PCB-1221	< 28.	Ü	2.5	28	50	10/14/03
PCB-1232	< 28.	Ū	8.8	28	50	10/14/03
PCB-1242	< 28.	Ü	5.8	28	50	10/14/03
PCB-1248	< 28.	U	3.6	28	50	10/14/03
PCB-1254	52.		1.4	28	50	10/14/03
PCB-1260	< 28.	Ü	2.9	28	50	10/14/03
_	< 28.	Ū	3.5	28	50	10/14/03

Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)	%R	Qual	%R Limits	Notes
Decachlorobiphenyl (surrogate)	175. 134.	#	30 - 150 30 - 150	38 38

Notes:

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 28, 2003

rimary cical accounts **Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6546 Sample: B1816

Sample Description: NIMO 4+85

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/13/03 Collected: Matrix: Solid

Received:

10/13/03 QC Batch: 101403S1 Prepared: 10/14/03 %Solids: 90.0

Sample Size: 30 g

Primary: N

Parameter	Result	Oual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 28.	U	2.5	28	50	10/15/03
PCB-1221	< 28.	Ü	8.8	28	50	10/15/03
PCB-1232	< 28.	Ü	5.8	28	50	10/15/03
PCB-1242	< 28	Ü	3.6	28	50	10/15/03
PCB-1248	59.	Ū	1.4	28	50	10/15/03
PCB-1254	< 28.	U	2.9	28	50	10/15/03
PCB-1260	< 28.	Ü	3.5	28	50	10/15/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	117.		30-150	
Decachlorobiphenyl (surrogate)	119.		30-150	

Notes:

38: Surrogate was diluted

Authorized:

Date: October 30, 2003

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

### O Diffell & Gere Laboratories, Inc.

Analytical accounts Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 6546

Sample: B 1818

Sample Description: NIMO DITCH MH

Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: DB-608, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/13/03 Collected:

Received:

Prepared:

10/14/03

Matrix: Solid

10/13/03

QC Batch: 101403S1

%Solids: 75.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .67	Ŭ	.060	.67	1	10/14/03
PCB-1221	< .67	υ	.21	.67	1	10/14/03
PCB-1232	< .67	υ	.14	.67	1	10/14/03
PCB-1242	< .67	Ü	.085	.67	1	10/14/03
PCB-1248	< .67	ט	.034	.67	1	10/14/03
PCB-1254	< .67	ט	.069	.67	1	10/14/03
PCB-1260	< .67	U	.083	. 67	1	10/14/03

Surrogate	%R	Oual	%R Limits	Motos
	- 710	Quar	ртштся	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	101.		30 - 150	
Decachlorobiphenyl (surrogate)	100.		30-150	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 28, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6546 Sample: B1817

Sample Description: FD Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

Totale Ballering

Collected: 10/13/03 Received: 10/13/03

Matrix: Solid

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

QC Batch: 101403S1

Prepared: 10/14/03

%Solids: 75.0 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	POL	Dil	Analyzed Notes
PCB-1016	< .67	U	.060	.67		10/14/03
PCB-1221	< .67	U	.21	.67	1	
PCB-1232	< .67	Ū	.14	.67	1	10/14/03
PCB-1242	< .67	U	.085	.67	1	10/14/03
PCB-1248	< .67	U	.034		1	10/14/03
PCB-1254	< .67	U	.069	. 67		10/14/03
PCB-1260	< .67	-	<del>-</del>	.67	1	10/14/03
	< .07	U	.083	.67	1	10/14/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	112.		30-150	<del></del>
Decachlorobiphenyl (surrogate)	109.		30 - 150	

Column Name: DB-608, 30m x .53mm ID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:\_\_

Date: October 28, 2003

Thomas Alexander

Analytical Results **Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6553 Sample: B1858

Sample Description: SS-02-05-F

Instrument: HP5890-89 Units:

mg/Kg Dry weight Number of analytes: 7

Column Name: RTXCLP2, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/14/03 Collected: Matrix: Solid

Received: 10/14/03 QC Batch: 101503S1 Prepared: 10/15/03 %Solids: 89.0

Sample Size: 30 g

Primary: Y

Parameter	Result	O 1				
PCB-1016		Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1221	< 28.	U	2.5	28	50	10/15/03
PCB-1232	< 28.	Ū	8.9	28	50	10/15/03
PCB-1242	< 28.	U	5.8	28	50	10/15/03
PCB-1248	< 28.	U	3.6	28	50	10/15/03
PCB-1254	160.		1.4	28	50	10/15/03 6
PCB-1260	< 28.	U	2.9	28	50	10/15/03
PCB-1260	< 28.	U	3.5	28	50	10/15/03

Surrogate	₹R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	113.	2002	30-150	38
bookenforobiphenyl (surrogate)	105.		30-150	38

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 16, 2003

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6553 Sample: B 1858

Sample Description: SS-02-05-F

Instrument: HP5890-89
Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

1010

Collected: 10/14/03

Matrix: Solid

Received: 10/14/03 Prepared: 10/15/03

QC Batch: 101503S1 %Solids: 89.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	\m_T			
PCB-1016			MDL_	PQL	Dil	Analyzed Notes
PCB-1221	< 28.	Ü	2.5	28	50	10/24/03
PCB-1232	< 28.	Ü	8.9	28	50	10/24/03
PCB-1242	< 28.	Ü	5.8	28	50	10/24/03
PCB-1248 4	< 28.	Ū	3.6	28	50	10/24/03
PCB-1254	96.	P	1.4	28	50	10/24/03 6
PCB-1254	< 28.	U	2.9	28	50	10/24/03
FCB-1260	< 28.	U	3.5	28	50	10/24/03

Surrogate 2,4,5,6-Tetrachloro-m-Xylene (surrogate)	%R	Qual	%R Limits	Notes
Decachlorobiphenyl (surrogate)	94.		30-150	38
(Sullogate)	89.		30-150	38

Column Name: RTXCLP, 30m x .53mmID

### Notes:

6: Altered aroclor.6: Altered aroclor.

38: Surrogate was diluted
38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:\_

Date: November 3, 2003

Thomas Alexander

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6553 Sample: B 1859

Sample Description: SS-02-05-N

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Collected:

10/14/03

Matrix: Solid

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Received: 10/14/03 Prepared: 10/15/03

QC Batch: 101503S1

%Solids: 89.0 Sample Size: 30 g

Primary: Y

Parameter	Result	O 1				
PCB-1016		_Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1221	< 56.	U	5.1	56	100	10/15/03
PCB-1232	< 56.	Ū	18.	56	100	10/15/03
PCB-1242	< 56.	U	12.	56	100	10/15/03
PCB-1248	< 56.	U	7.2	56	100	10/15/03
PCB-1254	190.		2.9	56	100	10/15/03 6
PCB-1260	< 56.	Ü	5.8	56	100	10/15/03
	< 56.	U	7.0	56	100	10/15/03

Surrogate		Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	115.		30-150	38
(Sullogate)	114.		30-150	38

Column Name: RTXCLP2, 30m x .53mmID

### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 16, 2003

Thomas Alexander

Analytical Results **Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6553 Sample: B1859

Sample Description: SS-02-05-N

Instrument: HP5890-89 Units:

mg/Kg Dry weight

Number of analytes: 7 Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 10/14/03

Matrix: Solid

Received: 10/14/03 Prepared: 10/15/03 QC Batch: 101503S1

%Solids: 89.0 Sample Size: 30 g

Primary: N

Parameter	Result	Qual				
PCB-1016			MDL	PQL	Dil	Analyzed Notes
PCB-1221	< 56.	Ü	5.1	56	100	10/24/03
PCB-1232	< 56.	Ų	18.	56	100	10/24/03
PCB-1242	< 56.	Ŭ	12.	56	100	10/24/03
PCB-1248	< 56.	U	7.2	56	100	10/24/03
PCB-1254	100.	P	2.9	56	100	10/24/03 6
PCB-1260	< 56.	Ü	5.8	56	100	10/24/03
100 1200	< 56.	U	7.0	56	100	10/24/03

Surrogate	₹R_	Qual	tR Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	89.		30-150	38
- stabilization (Surrogate)	107.		30-150	38

### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 3, 2003

Thomas Alexander

rmary cical accounts **Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6553 Sample: B 1860

Sample Description: SS-02-05-E

Instrument: HP5890-89

Units: mg/Kg Dry weight Number of analytes: 7

Column Name: RTXCLP2, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/14/03 Collected:

Received:

Prepared:

Matrix: Solid

10/14/03 QC Batch: 101503S1 10/15/03

%Solids: 87.0 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	DOT	2.1	
PCB-1016			··	PQL	Dil	Analyzed Notes
PCB-1221	< 5.7	Ü	.52	5.7	10	10/15/03
PCB-1232	< 5.7	Ü	1.8	5.7	10	10/15/03
	< 5.7	U	1.2	5.7	10	10/15/03
PCB-1242	< 5.7	U	.73	5.7	10	10/15/03
PCB-1248	10.		=		-	· - · - ·
PCB-1254			.29	5.7	10	10/15/03 6
PCB-1260	< 5.7	Ü	.60	5.7	10	10/15/03
PCB-1260	< 5.7	Ü	.72	5.7	10	10/15/03

Surrogate	&R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	107.		30-150	38
roomsuroropiphenyi (surrogate)	94.		30-150	38

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 16, 2003

# O'Brien & Gere Laboratories, Inc.

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6553 Sample: B 1860

Sample Description: SS-02-05-E

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 10/14/03

Received: 10/14/03

Matrix: Solid QC Batch: 101503S1

Prepared: 10/15/03

%Solids: 87.0 Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 5.7	U	.52	5.7	10	10/24/03
PCB-1221	< 5.7	Ü	1.8	5.7	10	10/24/03
PCB-1232	< 5.7	Ü	1.2	5.7	10	10/24/03
PCB-1242	< 5.7	Ü	.73	5.7	10	10/24/03
PCB-1248	6.6	P	.29	5.7	10	10/24/03 6
PCB-1254	< 5.7	U	.60	5.7	10	10/24/03
PCB-1260	< 5.7	Ü	.72	5.7	10	10/24/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	92.		30-150	38
Decachlorobiphenyl (surrogate)	79.		30 - 150	38

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 3, 2003

Thomas Alexander

Analytical Results **Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6553 Sample: B 1861

Sample Description: SS-02-05-S

Instrument: Units: mg/Kg Dry weight

HP5890-89

Number of analytes: 7

Column Name: RTXCLP2, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/14/03

Matrix: Solid

Received: 10/14/03 Prepared: 10/15/03

QC Batch: 101503S1

%Solids: 87.0 Sample Size: 30 g

Primary: Y

Parameter	Result	A 3				
PCB-1016		Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1221	< 57.	Ü	5.2	57	100	10/16/03
PCB-1232	< 57.	Ü	18.	57	100	10/16/03
PCB-1242	< 57.	Ū	12.	57	100	10/16/03
PCB-1248	< 57.	Ü	7.3	57	100	10/16/03
PCB-1254	200.		2.9	57	100	10/16/03 6
PCB-1260	< 57.	Ū	6.0	57	100	10/16/03
	< 57.	U	7.2	57	100	10/16/03

Surrogate 2,4,5,6-Tetrachloro-m-Xylene (surrogate)	%R Qual		%R Limits	Notes
Decachlorobiphenyl (surrogate)	105. 99.		30-150 30-150	38

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 16, 2003

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill

Analytical Results Method: 8082

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Project: Proj. Desc:

Sample:

Package#: 6553

Sample Description: SS-02-05-S

Instrument: HP5890-89

B1861

Units: mg/Kg Dry weight

Number of analytes: 7

Collected:

10/14/03

Matrix: Solid

Received: 10/14/03 Prepared:

QC Batch: 101503S1

10/15/03

%Solids: 87.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	L CO.		_	
PCB-1016			MDL	PQL	Dil	Analyzed Notes
PCB-1221	< 57.	Ü	5.2	57	100	10/24/03
PCB-1232	< 57.	U	18.	57	100	10/24/03
PCB-1232	< 57.	Ü	12.	57	100	10/24/03
PCB-1242	< 57.	Ü	7.3	57	100	10/24/03
PCB-1254	170.		2.9	57	100	10/24/03 6
PCB-1254	< 57.	U	6.0	57	100	10/24/03
ECB-1200	< 57.	U	7.2	57	100	10/24/03

Surrogate	₹R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	83.		30 - 15.0	38
Decachlorobiphenyl (surrogate)	92.		30 - 150	38

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6: Altered aroclor. 6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 30, 2003

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6553 Sample: B 1862

Sample Description: SS-02-05-W

Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: RTXCLP2, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/14/03

Matrix: Solid

Received: 10/14/03 Prepared: 10/15/03

QC Batch: 101503S1 %Solids: 87.0

Sample Size: 30 g

Primary: Y

Parameter	D- 1					
PCB-1016	Result	Qual	MOL	PQL	Dil	Analyzed Notes
PCB-1221	< 57.	U	5.2	57	100	10/16/03
PCB-1232	< 57.	U	18.	57	100	10/16/03
PCB-1242	< 57.	U	12.	57	100	10/16/03
PCB-1248	< 57.	U	7.3	57	100	10/16/03
PCB-1254	180.		2.9	57	100	10/11/1
PCB-1260	< 57.	U	6.0	57	100	10/16/03 6 10/16/03
	< 57.	U	7.2	57	100	10/16/03

Surrogate 2,4,5,6-Tetrachloro-m-Xylene (surrogate)	%R	Qual	%R Limits	Notes
Decachlorobiphenyl (surrogate)	103.		30-150	38
	93.		30-150	38

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J-Reported value is estimated. D-Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 16, 2003

Thomas Alexander

### Differ of Gele Laboratories, Inc.

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6553 Sample: B1862

Sample Description: SS-02-05-W

Instrument: HP5890-89 Units:

Number of analytes: 7

mg/Kg Dry weight Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

10/14/03 Collected:

Matrix: Solid QC Batch: 101503S1

Received: 10/14/03 Prepared: 10/15/03

%Solids: 87.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	107			•
PCB-1016			MDL_	PQL_	Dil	_Analyzed Notes
PCB-1221	< 57.	Ü	5.2	57	100	10/24/03
PCB-1232	< 57.	U	18.	57	100	10/24/03
PCB-1232	< 57.	U	12.	57	100	10/24/03
<del>-</del>	< 57.	U	7.3	57	100	10/24/03
PCB-1248	100.	P	2.9	57	100	
PCB-1254	< 57.	U	6.0	57		
PCB-1260	/ 57	**	· -		100	10/24/03
	< 57.	Ü	7.2	57	100	10/24/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	82.		30 - 150	38
(surrogate)	90.		30 - 150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: November 3, 2003

Authorized:

Analytical ixesults **Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6553 Sample: B 1863

Sample Description: TB-53-W

Instrument: HP5890-89

Units: mg/Kg Dry weight Number of analytes: 7

Column Name: RTXCLP2, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/14/03 Matrix: Solid

10/14/03

10/15/03

Received:

Prepared:

QC Batch: 101503S1

%Solids: 87.0 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 2.9	U	.26	2.9	5	10/24/03
PCB-1221	< 2.9	Ü	.91	2.9	5 5	10/24/03
PCB-1232	< 2.9	Ü	.60	2.9	5	10/24/03
PCB-1242	< 2.9	Ü	.37	2.9	5	10/24/03
PCB-1248	19.	P	.15	2.9	5	10/24/03 6
PCB-1254	< 2.9	- ט	.30	2.9	5	10/24/03
PCB-1260	< 2.9	U	.36	2.9	- 5	10/24/03

Surrogate	%R	Oual		Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	104.		30-150	38
Decachlorobiphenyl (surrogate)	85.		30-150	38

#### Notes:

6: Altered aroclor. 6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 3, 2003

Thomas Alexander

### O brien & Gere Laboratories, Inc.

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6553 Sample: B 1863

Sample Description: TB-53-W Instrument:

Units: mg/Kg Dry weight

Number of analytes: 7

HP5890-89

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/14/03 Collected:

Received:

Matrix: Solid QC Batch: 101503S1

10/14/03 Prepared: 10/15/03

%Solids: 87.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	POL	704.1	51 1 s
PCB-1016					Dil	Analyzed Notes
PCB-1221	< 2.9	Ü	.26	2.9	5	10/24/03
<b>-</b>	< 2.9	U	.91	2.9	5	10/24/03
PCB-1232	< 2.9	บ	. 60	2.9	5	10/24/03
PCB-1242	< 2.9	U		<del>-</del>	_	, , , , ,
PCB-1248	\ 2.9	U	.37	2.9	5	10/24/03
PCB-1254	14.	P	.15	2.9	5	10/24/03 6
	< 2.9	Ü	.30	2.9	5	10/24/03
PCB-1260	< 2.9	U	.36	2.9	5	10/24/03

Surrogate			%R	
		Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	85.		30-150	38
Decachlorobiphenyl (surrogate)	69.		30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 3, 2003

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6554 Sample: B1864

Sample Description: 5 + 90-F Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: RTXCLP2, 30m x .53mmID

Prepared:

Collected: 10/14/03

Received: 10/14/03 10/15/03 Matrix: Solid

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

QC Batch: 101503S1

%Solids: 82.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	) IDT	207		
PCB-1016			MDL	PQL	Dil	Analyzed Notes
PCB-1221	< .61	Ü	.055	.61	1	10/16/03
· <del>-</del>	< .61	Ü	.19	.61	1	10/16/03
PCB-1232	< .61	Ù	.13	.61	1	
PCB-1242	< .61	=			_	10/16/03
PCB-1248	_	Ü	.078	. 61	1	10/16/03
PCB-1254	< .61	Ü	.031	.61	1	10/16/03
	< .61	U	.063	.61	1	10/16/03
PCB-1260	< .61	Ū	.076	.61	1	10/16/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	88.		30-150	
Decachlorobiphenyl (surrogate)	84.			

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project:

Proj. Desc:

Package#: 6554 Sample: B1865

Sample Description: 5 + 40-F

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

GM - Former Landfill

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

10/14/03 Collected: Received: 10/14/03

Matrix: Solid QC Batch: 101503S1

Prepared: 10/15/03

%Solids: 84.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Oual	MDL	DOT	D4.1	\$ \$
PCB-1016	< .60			PQL	Dil	Analyzed Notes
PCB-1221	₹ . 60	Ü	.054	.6	1	10/16/03
	< .60	Ü	.19	. 6	1	10/16/03
PCB-1232	< .60	Ü	.12	. 6	1	10/16/03
PCB-1242	< .60	U	.076		•	
PCB-1248		-	.076	. 6	7	10/16/03
PCB-1254	< .60	U	030	. 6	1	10/16/03
·	< .60	U	.062	.6	1	10/16/03
PCB-1260	< .60	U	.074	. 6	1	10/16/03

Surrogate	%R	Qual	%R Limits	Makaa
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	88.	<u> </u>	30~150	Notes
Decachlorobiphenyl (surrogate)	87.		30~15Ö	

Column Name: RTXCLP2, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Proj. Desc:

Package#: 6554 Sample: B1866

Sample Description: 4 + 40-F

Instrument:

Units: mg/Kg Dry weight Number of analytes: 7

HP5890-89

Column Name: RTXCLP2, 30m x .53mmID

Collected:

10/14/03

Matrix: Solid

Received: 10/14/03 Prepared: 10/15/03

QC Batch: 101503S1 %Solids: 80.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	POL	Dil	Analyzed Notes
PCB-1016	< .62	U	.056	.62	1	10/16/03
PCB-1221	< .62	Ü	,20			
PCB-1232	< .62	•		. 62	1	10/16/03
PCB-1242		Ü	.13	. 62	1	10/16/03
PCB-1248	< .62	U	.080	. 62	1	10/16/03
	< .62	Ü	.032	.62	1	10/16/03
PCB-1254	< .62	U	.065	. 62	1	10/16/03
PCB-1260	< .62	U	.078	. 62	1	10/16/03

Surrogate	%R	Qua1	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	88.		30-150	
Decachlorobiphenyl (surrogate)	85.	•	30 <b>-</b> 150	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6554 Sample: B 1867

Sample Description: 4 + 85-F

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

10/14/03 Collected:

Matrix: Solid QC Batch: 101503S1

Received: 10/14/03 Prepared: 10/15/03

%Solids: 84.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MOL	DOT	Dá I	31
PCB-1016				PQL	Dil	Analyzed Notes
PCB-1221	< .60	Ü	.054	.6	1	10/16/03
	< .60	U	.19	.6	1	10/16/03
PCB-1232	< .60	υ	.12	.6	-	
PCB-1242		-		.0	Ţ	10/16/03
	< .60	Ü	.076	.6	1	10/16/03
PCB-1248	< .60	U	.030	. 6	1	10/16/03
PCB-1254	< .60	υ		- <del>-</del>	-	
PCB-1260		U	.062	. 6	1	10/16/03
TCD-1200	< .60	Ü	.074	.6	1	10/16/03

Surrogate	%R	Qual	₹R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	88.		30-150	<del></del>
Decachlorobiphenyl (surrogate)	87.		30-150	

Column Name: RTXCLP2, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 23, 2003

**Method: 8082** 

10/20/03

Received:

Prepared:

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6596 Sample: B2153

Sample Description: 6+30-TOP

Instrument:

Units: mg/Kg Dry weight Number of analytes: 7

HP5890-89

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/17/03 Collected:

Matrix: Solid 10/17/03 QC Batch: 102003S1

%Solids: 86.0

Sample Size: 30 g

Primary: Y

Parameter	Result Ou	al MDT.	202		
PCB-1016			PQL	Dil	Analyzed Notes
PCB-1221	< 5.8	J .52	5.8	10	10/21/03
PCB-1232	< 5.8 t	J 1.8	5.8	10	10/21/03
PCB-1232	< 5.8 (	1.2	5.8	10	10/21/03
	< 5.8 t	.74	5.8	10	10/21/03
PCB-1248	12.	.30	5.8	10	10/21/03 6
PCB-1254	< 5.8 t	,60	5.8	10	10/21/03
PCB-1260	< 5.8 t	.73	5.8	10	10/21/03

Surrogate	₽R	Qual	%R Limits	Notes
Decast land in the second of t	93.		30-150	38
e.4,5,6-Tetrachloro-m-Xylene (surrogate) ecachlorobiphenyl (surrogate)	62.		30-150	38

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 21, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6596 Sample: B2153

Sample Description: 6+30-TOP

Instrument: HP5890-89 mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

10/17/03 Collected:

Matrix: Solid

Received: 10/17/03

QC Batch: 102003S1

Prepared: 10/20/03 %Solids: 86.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 5.8	U				
PCB-1221		=	. 52	5.8	10	10/21/03
PCB-1232	< 5.8	U	1.8	5.8	10	10/21/03
	< 5.8	U	1.2	5.8	10	10/21/03
PCB-1242	< 5.8	U	.74	5.8		
PCB-1248		Ū	. / 4	5.0	10	10/21/03
PCB-1254	14.		.30	5.8	10	10/21/03 6
* * *	< 5.8	U	.60	5.8	10	10/21/03
PCB-1260	< 5.8	U	.73	5.8		
	. 5.0	U	./3	5.8	10	10/21/03

Surrogate		Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	93.		30-150	38
Decachlorobiphenyl (surrogate)	67.		30 - 150	38

Column Name: RTXCLP2, 30m x .53mmID

#### Notes:

6: Altered aroclor. 6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: October 30, 2003

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6596 Sample: B2154

Sample: B2154
Sample Description:

Instrument: HP5890-89

Instrument: HP5890-89
Units: mg/Kg Dry weight

Number of analytes: 7

tion: 6+30-BANK

Column Name: RTXCLP, 30m x .53mmlD

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/17/03

Matrix: Solid

Received: 10/17/03 Prepared: 10/20/03 QC Batch: 102003S1

%Solids: 85.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MOT	20-			
PCB-1016			MDL	PQL	Dil	<u>Analyzed Note</u>	28
PCB-1221	< 5.9	U	.53	5.9	10	10/21/03	<del></del>
PCB-1232	< 5.9	Ü	1.9	5.9	10	10/21/03	
PCB-1242	< 5.9	U	1.2	5.9	10	10/21/03	
PCB-1248	< 5.9	Ü	.75	5,9	10	10/21/03	
PCB-1254	15.		.30	5.9	10	10/21/03 6	
PCB-1260	< 5.9	Ŭ	.61	5.9	10	10/21/03	
	< 5.9	Ŭ	.73	5.9	10	10/21/03	

Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)	%R	Qual	%R Limits	Notes
Decachlorobiphenyl (surrogate)	72.		30-150	38
	57.		30-150	3.8

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 21, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6596 Sample: B2154

Sample Description: 6+30-BANK

Instrument: HP5890-89
Units: mg/Kg Dry weight

Number of analytes: 7

: 6+30-BANK

Prepared:

Column Name: RTXCLP2, 30m x .53mmID

Certification NY No.: 10155

Job No.: 3435, 124,62301

Collected: 10/17/03 Received: 10/17/03

Matrix: Solid QC Batch: 102003S1

10/20/03

%Solids: 85.0 Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	DOT	511	
PCB-1016	· · · · · · · · · · · · · · · · · · ·			PQL	Dil	Analyzed Notes
PCB-1221	< 5.9	U	.53	5.9	10	10/21/03
	< 5.9	U	1.9	5.9	10	10/21/03
PCB-1232	< 5.9	Ū	1.2	5.9	10	10/21/03
PCB-1242	< 5.9	Ü	.75	5.9	10	10/21/03
PCB-1248	16,		.30	5.9	10	
PCB-1254	< 5.9	U	.61	5.9		
PCB-1260	· -	-	.01	5.9	10	10/21/03
	< 5.9	Ŭ	.73	5.9	10	10/21/03

Surrogate	₹R	Qual	₹R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	77.		30-150	38
Decachlorobiphenyl (surrogate)	51.		30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 30, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6596 Sample: B2155

Sample Description: 6+10-TOP

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: RTXCLP, 30m x .53mmID

Received: Prepared:

Collected:

10/17/03

10/20/03

Matrix: Solid

10/17/03

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

QC Batch: 102003S1

%Solids: 85.0

Sample Size: 30 g

Primary: Y

Parameter	Result	O 1					
PCB-1016		Qual	MDL	PQL	Dil	Analyzed No	tes
PCB-1221	< 12.	Ū	1.1	12	20	10/21/03	
PCB-1232	< 12.	U	3.7	12	20	10/21/03	
PCB-1242	< 12.	Ū	2.4	12	20	10/21/03	
PCB-1248	< 12.	U	1.5	12	20	10/21/03	
PCB-1254	47.		.60	12	20	10/21/03	6
PCB-1260	< 12.	Ū	1.2	12	20	10/21/03	U
105 1200	< 12.	Ū	1.5	12	20	10/21/03	

Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)	%R	Qual	%R Limits	Notes
Decachlorobiphenyl (surrogate)	75.	· _ <del></del> .	30-150	38
	56.		30-150	38

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 21, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6596 Sample: B2155

Sample Description: 6+10-TOP Instrument:

Units: mg/Kg Dry weight

Number of analytes: 7

HP5890-89

Column Name: RTXCLP2, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/17/03 Matrix: Solid

Received: 10/17/03 QC Batch: 102003S1 Prepared: 10/20/03 %Solids: 85.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	207		
PCB-1016			בועויו	PQL	Dil	Analyzed Notes
PCB-1221	< 12.	Ū	1.1	12	20	10/21/03
PCB-1232	< 12.	U	3.7	12	20	10/21/03
PCB-1232	< 12.	U	2.4	12	20	10/21/03
PCB-1242	< 12.	U	1.5	12	20	10/21/03
PCB-1254	62.	P	.60	12	20	10/21/03 6
<b>-</b> -	< 12.	Ü	1.2	12	20	10/21/03
PCB-1260	< 12.	U	1.5	12	20	10/21/03

Surrogate	%R_	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	75.		30-150	38
(Surrogate)	51.		30 - 150	30

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

I - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 3, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6596 Sample: B2156

Sample Description:

Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

6+10-BANK

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/17/03 Received:

Matrix: Solid

10/17/03 Prepared: 10/20/03

QC Batch: 102003S1 %Solids: 84.0

Sample Size: 30 g

Primary: Y

Parameter PCB-1016	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1221	< 29.	Ü	2.6	29	50	10/21/03
PCB-1232	< 29.	U	9.3	29	50	10/21/03
PCB-1242	< 29.	Ü	6.1	29	50	10/21/03
PCB-1248	< 29.	υ	3.8	29	50	10/21/03
PCB-1254	270.		1.5	29	50	10/21/03 6
PCB-1260	< 29.	Ü	3.1	29	50	10/21/03
	< 29.	ט	3.7	29	50	10/21/03

Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)	%R	Qual	%R Limits	Notes
Decachlorobiphenyl (surrogate)	76.	· · · · · ·	30-150	38
- 1 (-HIII)	63.		30-150	30

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 21, 2003

Thomas Alexander

**Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6596 Sample: B 2156

Sample Description: 6+10-BANK

Instrument: HP5890-89 Units:

mg/Kg Dry weight Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 10/17/03

Matrix: Solid

Received: 10/17/03 Prepared: 10/20/03

QC Batch: 102003S1

%Solids: 84.0

Sample Size: 30 g

Primary: N

Parameter	Result	01				
PCB-1016		Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1221	< 29.	U	2.6	29	50	10/21/03
PCB-1232	< 29.	a	9.3	29	50	10/21/03
PCB-1242	< 29.	Ü	6.1	29	50	10/21/03
PCB-1248	< 29.	U	3.8	29	50	10/21/03
PCB-1254	330.		1.5	29	50	10/21/03 6
PCB-1260	< 29.	U	3.1	29	50	10/21/03
100	< 29.	ū	3.7	29	50	10/21/03

Surrogate		Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	75.		30 - 150	38
(Sullogate)	59.		30-150	38

Column Name: RTXCLP2, 30m x .53mmID

#### Notes:

6: Altered aroclor. 6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized: Date: October 30, 2003

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6596 Sample: B2157

Sample Description: 5+70 Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 10/17/03 Received: 10/17/03 Prepared:

10/20/03

Matrix: Solid QC Batch: 102003S1

%Solids: 86.0 Sample Size: 30 g

Primary: Y

Parameter					rrunary; Y
PCB-1016 PCB-1221	Result Qual	MDL 1.0	POL	Dil	Analyzed Notes
PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	< 12. U < 12. U < 12. U < 12. U 26. < 12. U < 12. U	3.7 2.4 1.5 .59 1.2	12 12 12 12 12 12 12	20 20 20 20 20 20 20 20	10/21/03 10/21/03 10/21/03 10/21/03 10/21/03 10/21/03 10/21/03

Surrogate		•
2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	%R Qual	30. 150 Notes
Notes:	63.	30-150 38 30-150 38

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 21, 2003

Analytical Results **Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project:

Proj. Desc:

Package#: 6596 Sample: B2157

Sample Description: 5+70 Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

GM - Former Landfill

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected:

10/17/03

Matrix: Solid

Received: 10/17/03 Prepared: 10/20/03

QC Batch: 102003S1

%Solids: 86.0

Sample Size: 30 g

Primary: N

Parameter	Result	A 1				
PCB-1016		Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1221	< 12.	Ü	1.0	12	20	10/21/03
PCB-1232	< 12.	Ü	3.7	12	20	10/21/03
PCB-1242	< 12.	U	2.4	12	20	10/21/03
PCB-1248	< 12.	U	1.5	12	20	10/21/03
PCB-1254	34.	P	.59	12	20	10/21/03 6
PCB-1260	< 12.	Ū	1.2	12	20	10/21/03
100 1200	< 12.	U	1.5	12	20	10/21/03

Surrogate 2,4,5,6-Tetrachloro-m-Xylene (surrogate)		Qual	%R Limits	Notes
Decachlorobiphenyl (surrogate)	86.		30-150	38
(Sullogate)	68.		30-150	38

Column Name: RTXCLP2, 30m x .53mmID

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 3, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6614 Sample: B 2266

Sample Description: SS-02-05-S2

Instrument:

HP5890-89

Units: mg/Kg Dry weight Number of analytes: 7

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/22/03

10/22/03

Matrix: Solid

Received: Prepared: 10/23/03

QC Batch: 102303S1 %Solids: 86.0

Sample Size: 30 g

Primary: Y

Parameter	Result Qu	al MDL	DOT		
PCB-1016			PQL	Dil	Analyzed Notes
PCB-1221	< 12. U	1,0	12	20	10/23/03
PCB-1232	< 12. U	3.7	12	20	10/23/03
	< 12. U	2.4	12	20	10/23/03
PCB-1242	< 12. U	1.5	12		
PCB-1248		2.0	12	20	10/23/03
PCB-1254	42.	.59	12	20	10/23/03 6
	< 12.	1.2	12	20	10/23/03
PCB-1260	< 12. U	1.5	12	20	10/23/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	95.		30-150	38
Decachlorobiphenyl (surrogate)	61.		30-150	38

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank. # - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: October 24, 2003

Analytical excourts Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6614 Sample: B 2266

Sample Description: SS-02-05-S2

Instrument:

HP5890-89

Units: mg/Kg Dry weight Number of analytes: 7

Column Name: RTXCLP2, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/22/03 Collected: Matrix: Solid

10/22/03

10/23/03

Received:

Prepared:

QC Batch: 102303S1

%Solids: 86.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 12.	U	1.0	12	20	10/23/03
PCB-1221	< 12.	Ü	3.7	12	20	10/23/03
PCB-1232	< 12.	Ü	2.4	12	20	10/23/03
PCB-1242	< 12.	U	1.5	12	20	10/23/03
PCB-1248	. 60.	P	.59	12	20	10/23/03 6
PCB-1254	< 12.	U	1.2	12	20	10/23/03
PCB-1260	< 12.	U	1.5	12	20	10/23/03

Surrogate	%R	Qual	₹R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	106.		30-150	38
Decachlorobiphenyl (surrogate)	70.		30-150	38

#### Notes:

6: Altered aroclor. 6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 4, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 6614 Sample: B 2267

Sample Description: SS-02-05-F2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected:

10/22/03

Matrix: Solid

Received:

10/22/03

QC Batch: 102303S1

Prepared: 10/23/03

%Solids: 87.0 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 29,	Ü	2.6	29	50	10/23/03
PCB-1221	< 29.	Ü	9.1	29	50	10/23/03
PCB-1232	< 29,	Ü	6.0	29 .	50	10/23/03
PCB-1242	< 29.	ט	3.7	29	50	10/23/03
PCB-1248	75.	-	1.5	29	50	10/23/03 6
PCB-1254	< 29.	บ	3.0	29	50 50	10/23/03
PCB-1260	< 29.	Ü	3.6	29	50	10/23/03

Surrogate	₩R	Qual	₹R Limits	Motos
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	98.	Qual	30-150	Notes 38
Decachlorobiphenyl (surrogate)	76.		30-150	38

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 24, 2003

**Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6614 Sample: B 2267

Sample Description: SS-02-05-F2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

B 2267

Column Name: RTXCLP2, 30m x .53mmID

Collected: Received:

Prepared:

10/22/03 10/22/03

10/23/03

Matrix: Solid

Matrix:

Job No.: 3435 124.62301

Certification NY No.: 10155

QC Batch: 102303S1

%Solids: 87.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 29.	<u> </u>	2.6	29	50	10/23/03
PCB-1221	< 29.	Ü	9.1	29	50	10/23/03
PCB-1232	< 29,	U	6.0	29	50	10/23/03
PCB-1242	< 29.	U	3.7	29	50	10/23/03
PCB-1248	100.	P	1.5	29	50	10/23/03 6
PCB-1254	< 29.	υ	3.0	29	50	10/23/03
PCB-1260	< 29.	U	3.6	29	50	10/23/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	115.		30-150	38
Decachlorobiphenyl (surrogate)	84.		30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:\_

Date: November 4, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6614 Sample: B 2268

Sample Description: SS-02-05-W2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Certification NY No.: 10155

Job No.: 3435 . 124 . 62301

10/22/03 Collected: Received: 10/22/03

Matrix: Solid QC Batch: 102303S1

Prepared: 10/23/03

%Solids: 86.0 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	3 m m 3 m m m m m m m m m m m m m m m m
PCB-1016	< 29.	U		<del></del>	····	Analyzed Notes
PCB-1221		=	2.6	29	50	10/23/03
PCB-1232	< 29.	U	9.2	29	50	10/23/03
	< 29.	U	6.1	29	50	10/23/03
PCB-1242	< 29.	U	3.7	29		
PCB-1248		J		29	50	10/23/03
PCB-1254	84.		1.5	29	50	10/23/03 6
·· == • ·	< 29.	U	3.0	29	50	10/23/03
PCB-1260	< 29.	U	3.6	29	50	10/23/03

Surrogate		Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	93.		30-150	38
Decachlorobiphenyl (surrogate)	75.		30-150	38

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: October 24, 2003

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6614 Sample: B2268

Sample Description: SS-02-05-W2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

709U-09

Column Name: RTXCLP2, 30m x .53mmlD

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

allested: 10/22/03

Collected: 10/22/03 Received: 10/22/03

Matrix: Solid QC Batch: 102303S1

Prepared: 10/23/03 %Solids: 86.0

Sample Size: 30 g

Primary: N

Parameter	Result (	Qual	MDL	DOT	D.: 1	
PCB-1016				PQL	Dil	Analyzed Notes
PCB-1221	< 29.	Ü	2.6	29	50	10/23/03
PCB-1232	< 29.	U	9.2	29	50	10/23/03
PCB-1232	< 29.	Ū	6.1	29	50	10/23/03
PCB-1242 PCB-1248	< 29.	U	3.7	29	50	10/23/03
PCB-1254	<b>95.</b> .	•	1.5	29	50	10/23/03 6
	< 29.	U	3.0	29	50	10/23/03
PCB-1260	< 29.	Ū	3.6	29	50	10/23/03

Surrogate	%R	Qual	₹R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	108.		30-150	38
becachiotobiphenyi (surrogate)	81.		30-150	38

#### Notes:

6: Altered aroclor.6: Altered aroclor.

38: Surrogate was diluted38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:\_

Date: November 4, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 6614 Sample: B2269

Sample Description: SS-02-05-N2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/22/03

Matrix: Solid 10/22/03 QC Batch: 102303S1

Received: Prepared: 10/23/03

%Solids: 87.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	DOT	D41	11 1
PCB-1016				PQL	Dil	Analyzed Notes
PCB-1221	< .57	U	.052	.57	1	10/23/03
•	< .57	υ	.18	.57	1	10/23/03
PCB-1232	< .57	υ	.12	E 7		·
PCB-1242	<del>-</del>		_	.57	1	10/23/03
PCB-1248	< .57	U	.073	. 57	1	10/23/03
	.28		.029	.57	1	10/23/03 6
PCB-1254	< .57	υ	.060	.57	,	
PCB-1260		•			T	10/23/03
•	< .57	U	.072	. 57	1	10/23/03

Surrogate	₹R	Qual	tR Limits	Notes
Pegachlorohipharul (surrogate)	78.		30-150	
2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	54.		30-150	

#### Notes:

6: Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

I - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 24, 2003

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6614 Sample: B 2269

Sample Description: SS-02-05-N2

Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

Collected: 10/22/03 Matrix: Solid

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Received: 10/22/03 Prepared: 10/23/03

QC Batch: 102303S1

%Solids: 87.0 Sample Size: 30 g

Primary: N

Parameter	Result	Qual				
PCB-1016			MDL	PQL	Dil	Analyzed Notes
PCB-1221	< .57	Ü	.052	.57	1	10/23/03
PCB-1232	< .57	U	.18	.57	1	10/23/03
PCB-1242	< .57	Ū	.12	.57	1	10/23/03
PCB-1248	< .57	U	.073	.57	1	10/23/03
PCB-1254	.42	J P	.029	.57	1	10/00/00
PCB-1260	< .57	Ü	.060	. 57	1	10/23/03 6
	< .57	U	.072	.57	1	10/23/03

Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)		Qual	<pre>%R Limits</pre>	Notes
Decachlorobiphenyl (surrogate)	94.		30-150	
1	65.		30-150	

Column Name: RTXCLP2, 30m x .53mmID

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized

Date: November 4, 2003

Thomas Alexander

**Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6614 Sample: B 2270

Sample Description: 6+15 Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

.

Collected:

10/22/03

Matrix: Solid

Received: Prepared: 10/22/03 10/23/03

QC Batch: 102303S1

%Solids: 87.0

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 5.7	Ü	.52	5.7	10	10/23/03
PCB-1221	< 5.7	U	1.8	5.7	10	10/23/03
PCB-1232	< 5.7	Ū	1.2	5.7	10	10/23/03
PCB-1242	< 5.7	Ū	,73	5.7	10	10/23/03
PCB-1248	9.1		.29	5.7	10	10/23/03 6
PCB-1254	< 5.7	U	.60	5.7	10	10/23/03
PCB-1260	< 5.7	U	.72	5.7	10	10/23/03

Surrogate	₹R	Oual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	94.		30-150	38
Decachlorobiphenyl (surrogate)	65.		30-150	38

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

Authorized:

Date: October 24, 2003

B - Analyte detected above the PQL in the associated Prep Blank.

<sup># -</sup> Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

**Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6614 Sample: B 2270

Sample Description: 6+15 Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

Desc: |ge#: 6614

> Collected: Received:

10/22/03

Matrix: Solid

Job No.: 3435, 124,62301

Certification NY No.: 10155

10/22/03

QC Batch: 102303S1

Prepared: 10/23/03

%Solids: 87.0 Sample Size: 30 g

Primary: N

Column Name: RTXCLP2, 30m x .53mmID

Parameter	Result	Qua1	MOT	202		
PCB-1016			MDL	PQL	Dil	Analyzed Notes
PCB-1221	< 5.7	U	.52	5.7	10	10/23/03
PCB-1232	< 5.7	Ū	1.8	5.7	10	10/23/03
PCB-1242	< 5.7	U	1.2	5.7	10	10/23/03
PCB-1248	< 5.7	U	.73	5,7	10	10/23/03
PCB-1254	13.	P	.29	5.7	10	10/23/03 6
PCB-1260	< 5.7	U	.60	5.7	10	10/23/03
100 1200	< 5.7	U	.72	5.7	10	10/23/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	114.		30-150	38
secuciaroromiphenyi (surrogate)	78.		Limits	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 4, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6623 Sample: B 2310

Sample Description: 4 + 85-F

Instrument: HP5890-89
Units: mg/Kg Dry weight

Number of analytes: 7

2310 intion: 4 + 85-F

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/23/03 Matrix: Solid

Received: 10/23/03 QC Batch: 102303S1 Prepared: 10/23/03 %Solids: 88.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 11.	U	1.0	11	20	10/23/03
PCB-1221	< 11.	บ	3.6	11	20	10/23/03
PCB-1232	< 11.	Ü	2.4	11 .	20	10/23/03
PCB-1242	< 11.	Ü	1.5	11	20	10/23/03
PCB-1248	35.		.58	11	20	10/23/03 6
PCB-1254	< 11.	U	1.2	11	20	10/23/03
PCB-1260	< 11.	Ü	1.4	11	20	10/23/03

Surrogate	%R%	Qual	₹R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	90.		30-150	38
Decachlorobiphenyl (surrogate)	62.		30-150	38

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 24, 2003

### O brieff & Gere Laboratories, Inc.

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6623 Sample: B 2310

Sample Description: 4 + 85-F Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: RTXCLP2, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/23/03 Collected: Matrix: Solid

Received: 10/23/03 QC Batch: 102303S1 Prepared: 10/23/03 %Solids: 88.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 11.					
PCB-1221		Ü	1.0	11	20	10/23/03
<b></b>	< 11.	υ	3.6	11	20	10/23/03
PCB-1232	< 11.	U	2.4	11	20	
PCB-1242	•	=		_	20	10/23/03
PCB-1248	< 11.	Ü	1.5	11	20	10/23/03
	40.		.58	11	20	10/23/03 6
PCB-1254	< 11.	U	1.2	11	20	10/23/03
PCB-1260		<del>-</del>	1.2	11	20	10/23/03
	< 11.	υ	1.4	11	20	10/23/03

Surrogate	0.75		&R	
	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	105.		30-150	38
Decachlorobipheny1 (surrogate)	72.		30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

Authorized:

Jan. 6

Date: November 4, 2003

B - Analyte detected above the PQL in the associated Prep Blank.

<sup># -</sup> Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

### O DITCH & Gete Laboratories, Inc.

Analytical Results **Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6623 Sample: B 2311

Sample Description: 4 + 85-N Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 10/23/03

Matrix: Solid

10/23/03

QC Batch: 102303S1

Received: Prepared: 10/23/03

%Solids: 83.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 12.	U	1.1	12	20	10/23/03
PCB-1221	< 12.	U	3.8	12	20	10/23/03
PCB-1232	< 12.	U	2.5	12	20	10/23/03
PCB-1242	< 12.	U	1.5	12	20	10/23/03
PCB-1248	32.		.61	12	20	10/23/03 6
PCB-1254	< 12.	U	1.2	12	20	10/23/03
PCB-1260	< 12.	U	1.5	12	20	10/23/03

Surrogate	₹R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	78.		30-150	38
Decachlorobiphenyl (surrogate)	<del>6</del> 1.		30-150	38

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 24, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6623 Sample: B 2311

Sample Description: 4 + 85-N
Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

11

otion: 4 + 85-N HP5890-89

Column Name: RTXCLP2, 30m x .53mmID

Collected: 10
Received: 10

Prepared:

10/23/03 10/23/03 10/23/03 Matrix: Solid

QC Batch: 102303S1

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

%Solids: 83.0

Sample Size: 30 g Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 12.	U	1.1	12		
PCB-1221		=		12	20	10/23/03
	< 12.	Ü	3.8	12	20	10/23/03
PCB-1232	< 12.	Ü	2.5	12	20	10/23/03
PCB-1242		· <del>=</del>	=	12	20	10/23/03
	< 12.	Ü	1.5	12	20	10/23/03
PCB-1248	38.		. 61	12	20	10/23/03 6
PCB-1254	. 10					
DOD 10.60	< 12.	U	1.2	12	20	10/23/03
PCB-1260	< 12.	U	1.5	12	20	10/23/03

Surrogate			₽R	
	₹R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	101.		30-150	38
Decachlorobiphenyl (surrogate)	70.		30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 4, 2003

### O Dilen & Gele Laboratories, Inc.

**Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 6623

Sample Description: 4 + 85-E

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Sample: B 2312

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435, 124,62301 Certification NY No.: 10155

10/23/03 Collected: Matrix: Solid

Received: 10/23/03 QC Batch: 102303S1 Prepared: 10/23/03 %Solids: 90.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 28.	Ų	2.5	28	50	10/24/03
PCB-1221	< 28.	Ų	8.8	28	50	10/24/03
PCB-1232	< 28.	U	5.8	28 .	50	10/24/03
PCB-1242	< 28.	Ü	3.6	28	50	10/24/03
PCB-1248	79.		1.4	28	50	10/24/03 6
PCB-1254	< 28.	U	2.9	28	50	10/24/03
PCB-1260	< 28.	U	3.5	28	50	10/24/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	92.	<del></del>	30-150	38
Decachlorobiphenyl (surrogate)	69.		30-150	38

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 24, 2003

### O Diten & Gere Laboratories, Inc.

Analytical Results **Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6623 Sample: B2312

Sample Description: 4 + 85-E

Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7 Column Name: RTXCLP2, 30m x .53mmID

Collected:

Prepared:

10/23/03

Matrix: Solid

Received:

10/23/03 10/23/03 QC Batch: 102303S1

%Solids: 90.0

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	POL	Dil	Analyzed Notes
PCB-1016	< 28.	U	2.5	28		
PCB-1221	· ·	=		20	50	10/23/03
	< 28.	ū	8.8	28	50	10/23/03
PCB-1232	< 28.	U	5.8	28	50	10/23/03
PCB-1242	< 28.	U	3.6	28	50	10/23/03
PCB-1248	• •	=	-	-	50	10/23/03
	120.	₽	1.4	28	50	10/23/03 6
PCB-1254	< 28.	U	2.9	28	50	10/23/03
PCB-1260	< 28.	U	3.5	28	50	10/23/03

Surrogate	%R	Oual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	109.		30-150	38
Decachlorobiphenyl (surrogate)	76.		30-150	38

#### Notes:

6: Altered aroclor. 6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: November 4, 2003

Thomas Alexander

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6623 Sample: B2313

Sample Description: 4 + 85-S Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

6623 B 2313

Column Name: RTXCLP, 30m x .53mmID

Collected:

10/23/03

Matrix: Solid

Job No.: 3435 , 124 , 62301

Certification NY No.: 10155

Received: 10/23/03 Prepared: 10/23/03 QC Batch: 102303S1

%Solids: 90.0 Sample Size: 30 g

Primary: Y

Parameter	Result (	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 11.	U	1.0	11		
PCB-1221	< 11.	_			20	10/24/03
PCB-1232		υ	3.5	11	20	10/24/03
PCB-1242	< 11.	U	2.3	11	20	10/24/03
· · · · · · · · · · · · · · · · · · ·	< 11.	Ü	1.4	11	20	10/24/03
PCB-1248	27.		.57	11	20	10/24/03 6
PCB-1254	< 11.	U	1.2	11	20	10/24/03
PCB-1260	< 11.	_	- · <del>-</del>			
	V 11.	Ü	1.4	11	20	10/24/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	93.		30-150	38
Decachlorobiphenyl (surrogate)	64.		30-150	38

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 24, 2003

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6623 Sample: B2313

Sample Description: 4 + 85-S

Instrument:

HP5890-89

mg/Kg Dry weight

Units: Number of analytes: 7

Column Name: RTXCLP2, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/23/03

Prepared:

10/23/03 Collected: Matrix: Solid Received: 10/23/03 QC Batch: 102303S1

%Solids: 90.0

Sample Size: 30 g Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 11.	U	1.0	11	20	10/24/03
PCB-1221	< 11.	Ū	3.5	11	20	10/24/03
PCB-1232	< 11.	U	2.3	11	20	10/24/03
PCB-1242 PCB-1248	< 11.	υ	1.4	11	20	10/24/03
PCB-1248 PCB-1254	31.		.57	11	20	10/24/03 6
PCB-1254 PCB-1260	< 11.	Ū	1.2	11	20	10/24/03
FCB-1200	< 11.	Ü	1.4	11	20	10/24/03

Surrogate	9.00		%R	
······································		Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	106.		30~150	38
Decachlorobiphenyl (surrogate)	73.		30-150	38

#### Notes:

6: Altered aroclor. 6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 4, 2003

Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6623

Sample: B 2314

Sample Description: 4 + 85-W Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

g Dry weight
lytes: 7 Column Name: RTXCLP, 30m x .53mmID

Collected:

10/23/03

Matrix: Solid

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Received: 10/23/03

QC Batch: 102303S1

Prepared: 10/23/03

%Solids: 84.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 30.	Ü	2.7	30	50	10/24/03
PCB-1221	< 30.	U	9.4	30	50	10/24/03
PCB-1232	< 30.	U	6.2	30	50	10/24/03
PCB-1242	< 30.	Ū	3.8	30	50	10/24/03
PCB-1248	55.		1.5	30	50	10/24/03 6
PCB-1254	< 30.	U	3.1	30	50	10/24/03
PCB-1260	< 30.	Ū	3.7	30	50	10/24/03

Surrogate	₹R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	93.		30-150	38
Decachlorobiphenyl (surrogate)	76.		30-150	38

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 24, 2003

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6623 Sample: B2314

Sample Description: 4 + 85-W

Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7 Column Name: RTXCLP2, 30m x .53mmID

Collected:

10/23/03

Matrix: Solid

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Received: 1 Prepared: 1

10/23/03 10/23/03 QC Batch: 102303S1 %Solids: 84.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Applicat Makes
PCB-1016	< 30.	U				Analyzed Notes
PCB-1221		=	2.7	30	50	10/24/03
= :=	< 30.	Ü	9.4	30	50	10/24/03
PCB-1232	< 30.	U	6.2	30	50	10/24/03
PCB-1242	< 30.	υ		-	=	
PCB-1248		U	3.8	30	50	10/24/03
PCB-1254	67.		1.5	30	50	10/24/03 6
	< 30.	υ	3.1	30	50	10/24/03
PCB-1260	< 30.	U	2 7	= -		
	<b>\ 30.</b>	U	3.7	30	50	10/24/03

Surrogate	₹R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	112.	-	30-150	38
Decachlorobiphenyl (surrogate)	80.		30 - 150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted38: Surrogate was diluted

Authorized:

Date: November 4, 2003

Thomas Alexander

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

**Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6623 Sample: B 2315

Sample Description: 4 + 85-FD

Instrument:

HP5890-89

Units: mg/Kg Dry weight Number of analytes: 7

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 10/23/03 Matrix: Solid Received: 10/23/03 QC Batch: 102303S1

Prepared: 10/23/03 %Solids: 88.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 11.	Ü			<del></del>	
PCB-1221	•	U	1.0	11	20	10/24/03
	< 11.	ט	3.6	11	20	10/24/03
PCB-1232	< 11.	ט	2.4	11 .	20	
PCB-1242		_			20	10/24/03
	< 11.	Ü	1.5	11	20	10/24/03
PCB-1248	27.		.58	11	20	10/24/03 6
PCB~1254	< 11.	Ü	1.2	11	20	• • • • • • • • • • • • • • • • • • • •
PCB-1260		-		11	20	10/24/03
102 1200	< 11.	Ü	1.4	11	20	10/24/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	94.	1	30-150	38
Decachlorobiphenyl (surrogate)	67.		30-150	38

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 24, 2003

Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

### O Ditell & Gere Laboratories, Inc.

Analytical Results **Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6623 Sample:

Sample Description: 4 + 85-FD

Instrument:

HP5890-89

Units: mg/Kg Dry weight Number of analytes: 7

B 2315

Collected:

10/23/03

Matrix: Solid

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Received: 10/23/03 QC Batch: 102303S1

Prepared: 10/23/03

%Solids: 88.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	San Jan 1 St.
PCB-1016	< 11.					Analyzed Notes
PCB-1221		Ü	1.0	11	. 20	10/24/03
	< 11.	U	3.6	11	20	10/24/03
PCB-1232	< 11.	U	2.4	11	20	
PCB-1242	< 11.	<del>-</del>				10/24/03
PCB-1248	<b>\ 11.</b>	υ	1.5	11	20	10/24/03
<del>-</del>	32.		.58	11	20	10/24/03 6
PCB-1254	< 11.	U ·	1.2	11	20	10/24/03
PCB-1260	/ 11			_	20	10/24/03
	< 11.	Ü	1.4	11	20	10/24/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	112.	-	30-150	38
Decachlorobiphenyl (surrogate)	79.		30 - 150	38

Column Name: RTXCLP2, 30m x .53mmID

#### Notes:

6: Altered aroclor. 6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 4, 2003

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6686 Sample: B2724

Sample Description: 3+00 Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected:

11/01/03

Matrix: Solid

Received: Prepared:

11/03/03 11/05/03

QC Batch: 110503S1

%Solids: 65.0

Sample Size: 30 g

Primary: Y

Parameter	Result	O 1				
PCB-1016		Qua1	MDL	PQL_	Dil	Analyzed Notes
PCB-1221	< ,77	U	.069	. 77	1	11/05/03
PCB-1232	< .77	U	.24	.77	1	11/05/03
PCB-1242	< .77	U	.16	.77	1	11/05/03
PCB-1249	< .77	U	.098	.77	1	11/05/03
PCB-1254	.48	J	.039	.77	1	11/05/03
PCB-1260	< .77	U	.080	.77	1	11/05/03
	< .77	U	.096	.77	1	11/05/03

Surrogate 2,4,5,6-Tetrachloro-m-Xylene (surrogate)		<u>Q</u> ual	%R Limits	Notes
Decachlorobiphenyl (surrogate)	61. 74.		30-150 30-150	

Column Name: RTXCLP2, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 11, 2003

Analytical Results **Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6686 Sample: B2724

Sample Description: 3+00

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

11/01/03 Collected:

Received: 11/03/03 Matrix: Solid QC Batch: 110503S1

Prepared: 11/05/03

%Solids: 65.0 Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .77	Ü	.069	.77	1	11/05/03
PCB-1221	< .77	U	.24	.77	1	11/05/03
PCB-1232	< .77	Ū	.16	.77	1	11/05/03
PCB-1242	< .77	U	.098	.77	1	11/05/03
PCB-1248	.46	J	.039	.77	1	11/05/03
PCB-1254	< .77	Ū	.080	.77	1	11/05/03
PCB-1260	< .77	U	.096	.77	1	11/05/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	68.		30-150	
Decachlorobiphenyl (surrogate)	78.		30-150	

Column Name: RTXCLP, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: November 11, 2003

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6686 Sample: B 2725

Sample Description: 2+00

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected:

11/01/03

Matrix: Solid

Received: 11/03/03 Prepared: 11/05/03

QC Batch: 110503S1

%Solids: 80.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .62	U	.056	,62	1	11/05/03
PCB-1221	< .62	U	.20	.62	1	11/05/03
PCB-1232	< .62	U	.13	. 62	1	11/05/03
PCB-1242	< .62	U	.080	. 62	1	11/05/03
PCB-1248	.28	J	.032	.62	1	11/05/03
PCB-1254	< .62	⊾ U	.065	.62	1	11/05/03
PCB-1260	< .62	U	.078	.62	1	11/05/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	66.		30-150	
Decachlorobiphenyl (surrogate)	73.		30-150	

Column Name: RTXCLP2, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: November 11, 2003

Analytical Results **Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6686 Sample: B2725

Sample Description: 2+00 Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

11/01/03 Collected:

11/03/03

Matrix: Solid QC Batch: 110503S1

Received: Prepared: 11/05/03

%Solids: 80.0 Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .62	Ü	.056	. 62	1	11/05/03
PCB-1221	< .62	U	.20	.62	1	11/05/03
PCB-1232	< ,62	Ü	.13	.62	1	11/05/03
PCB-1242	< .62	υ	.080	.62	1	11/05/03
PCB-1248	.23	J	.032	.62	1	11/05/03
PCB-1254	< .62	U	.065	.62	1	11/05/03
PCB-1260	< .62	U	.078	.62	1	11/05/03

Surrogate	0.75		%R	
	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	75.		30-150	
Decachlorobiphenyl (surrogate)	79.	•	30-150	

Column Name: RTXCLP, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: November 11, 2003

Wet Chemistry

Certification NY No.: 10155

3435.124.62301

Job No.:

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6686

Sample: B2724

Samp. Description: 3+00

Collected: 11/01/03

Received: 11/03/03 10:40

Matrix: Solid

Number of Analytes: 1

 Parameter
 Result Q Units
 Method MDL PQL Analyzed
 QC Batch Dil Note

 % Total Solids
 65.0
 %
 2540-G
 1.0 11/05/03
 110503S9 1

Notes:

Package#: 6686

Sample: B2725

Samp. Description: 2+00

Collected: 11/01/03

Received: 11/03/03 10:40

Matrix: Solid Number of Analytes: 1

Parameter Result Q Units Method MDL PQL Analyzed QC Batch Dil Note % Total Solids 80.3 % 2540-G 1.0 11/05/03 110503S9 1

Notes:

B - Analyte detected above the PQL in the associated Prep Blank

U - Undetected at the reported level.

J - Reported value is estimated. D- Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

Authorized:

Kutnonzea:

Date: November 16, 2003 Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

**Analytical Results Method: 8082** 

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6710 Sample: B 2859

11/05/03 Collected:

Matrix: Solid Sample Description: SS-02-05-F3 Received: 11/05/03 QC Batch: 110603S1 Instrument: HP5890-90 Prepared: 11/06/03

Units: mg/Kg Dry weight

Number of analytes: 7 Column Name: DB-608, 30m x .53mm ID %Solids: 85.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 5.9	U	.53	5.9	10	11/06/03
PCB-1221	< 5.9	Ū	1.9	5.9	10	11/06/03
PCB-1232	< 5.9	Ū	1.2	5.9	10	11/06/03
PCB-1242	< 5.9	Ū	.75	5.9	10	11/06/03
PCB-1248	14.		.30	5.9	10	11/06/03 6
PCB-1254	< 5.9	Ū	.61	5.9	10	11/06/03
PCB-1260	< 5.9	Ū	.73	5.9	10	11/06/03

Surrogate	&R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	86.		30-150	38
Decachlorobiphenyl (surrogate)	114.		30-150	38

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 7, 2003

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6710 B 2859 Sample:

Sample Description: SS-02-05-F3

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

11/05/03 Collected:

Matrix: Solid

Received: 11/05/03 Prepared: 11/06/03 QC Batch: 110603S1

%Solids: 85.0

Sample Size: 30 g Primary: N

Parameter	Result Qu	ual MDL	POL	Dil	Analyzed Notes
PCB-1016	< 5.9	U .53	5.9	10	11/06/03
PCB-1221	< 5.9	U 1.9	5.9	10	11/06/03
PCB-1232	< 5.9	U 1.2	5.9	10	11/06/03
PCB-1242	< 5.9	υ .75	5.9	10	11/06/03
PCB-1248	15.	.30	5.9	10	11/06/03
PCB-1254	< 5.9	U .61	5.9	10	11/06/03
PCB-1260	< 5.9	U .73	5.9	10	11/06/03

<b>8</b>			₩R	
Surrogate	₹R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	85.		30-150	38
Decachlorobiphenyl (surrogate)	83.		30-150	38

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 7, 2003

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6710 Sample: B2861

Sample Description: FD Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected:

11/05/03

Matrix: Solid

Received: 11/05/03 Prepared: 11/06/03

QC Batch: 110603S1 %Solids: 86.0

Sample Size: 30 g

Primary: Y

Parameter	Pogul 6					
PCB-1016	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1221	< 2.9	Ü	.26	2.9	5	11/06/03
PCB-1232	< 2.9	Ū	.92	2.9	5	11/06/03
PCB-1242	< 2.9	Ü	.61	2.9	5	11/06/03
PCB-1248	< 2.9	Ū	.37	2.9	5	11/06/03
PCB-1254	6.4		.15	2.9	5	11/06/03
PCB-1260	< 2.9	Ū	.30	2.9	5	11/06/03
100 1200	< 2,9	U	.36	2.9	5	11/06/03

Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)	₹R	Qual	%R Limits	Notes
Decachlorobiphenyl (surrogate)	88.		30 - 150	38
- 'J' (Surroyate)	98.		30-150	38

Column Name: DB-608, 30m x .53mm ID

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank. # - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 7, 2003

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6710 Sample: B 2861

Sample Description: FD Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected:

11/05/03

Matrix: Solid

Received: Prepared:

11/05/03 11/06/03

QC Batch: 110603S1

%Solids: 86.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	) //D.T			
PCB-1016			MDL	PQL	<u> </u>	Analyzed Notes
PCB-1221	< 2.9	Ü	.26	2.9	5	11/06/03
PCB-1232	< 2.9	U	.92	2.9	5	11/06/03
PCB-1242	< 2.9	U	.61	2.9	5	11/06/03
PCB-1248	< 2.9	Ü	.37	2.9	5	11/06/03
PCB-1254	7.1		.15	2.9	5	11/06/03 6
PCB-1260	< 2.9	Ü	.30	2.9	5	11/06/03
FCB-1260	< 2.9	U	.36	2.9	5	11/06/03

Surrogate		Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	83.		30-150	38
read (surrogate)	72.		30-150	38

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 7, 2003

Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6710 Sample: B 2860

Sample Description: SS-02-05-W3

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: DB-608, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

11/05/03 Collected: Matrix: Solid

Received: 11/05/03 QC Batch: 110603S1

Prepared: 11/06/03 %Solids: 86.0

Sample Size: 30 g

Primary: Y

Parameter	Result (	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 12.	U	1.0	12	20	11/06/03
PCB-1221	< 12.	U	3.7	12	20	11/06/03
PCB-1232	< 12.	U	2.4	12	20	11/06/03
PCB-1242	< 12.	U	1.5	12	20	11/06/03
PCB-1248	39.		.59	12	20	11/06/03 6
PCB-1254	< 12.	U	1.2	12	20	11/06/03
PCB-1260	< 12.	U	1.5	12	20	11/06/03

Surrogate	₹R	Oual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	86.		30-150	38
Decachlorobiphenyl (surrogate)	139.		30-150	38

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted

38: Surrogate was diluted

Authorized:

Date: November 7, 2003

B - Analyte detected above the PQL in the associated Prep Blank.

<sup># -</sup> Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 6710 Sample: B2860

Sample Description: SS-02-05-W3

Instrument: HP5890-90 mg/Kg Dry weight Units:

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

11/05/03 Collected:

Received:

Prepared:

Matrix: Solid

11/05/03 11/06/03

QC Batch: 110603S1

%Solids: 86.0

Sample Size: 30 g Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 12.	U	1.0	12	20	11/06/03
PCB-1221	< 12.	U	3.7	12	20	11/06/03
PCB-1232	< 12.	U	2.4	12	20	11/06/03
PCB-1242	< 12.	U	1.5	12	20	11/06/03
PCB-1248	47.		.59	12	20	11/06/03 6
PCB-1254	< 12.	Ü	1.2	12	20	11/06/03
PCB-1260	< 12.	Ü	1.5	12	20	11/06/03

Surrogate	%R	Oual	%R Limits	Notes
O 4 5 5 7 3 3 4	011	Qual	או דייוד רא	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	95.		30-150	38
Decachlorobiphenyl (surrogate)	103.		30-150	38

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

6: Altered aroclor.

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 7, 2003

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6710 Sample: B 2857

Sample Description: 4+85-E2

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

710

Column Name: DB-608, 30m x .53mm ID

Collected: 11/05/03 Received: 11/05/03 Matrix: Solid

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Prepared: 11/05/03

QC Batch: 110603S1

%Solids: 85.0 Sample Size: 30 g

Primary: Y

Parameter	Result Qual	MDL	PQL Dil	Analyzed Notes
PCB-1016	< 29. U	2.6 29	50	11/07/03
PCB-1221	< 29. U	9.3 29	= -	11/07/03
PCB-1232	< 29. U	6.1 29	50	11/07/03
PCB-1242	< 29. U	3.8 29	50	11/07/03
PCB-1248	58. P	1.5 29	50	11/07/03 6
PCB-1254	< 29. U	3.1 29	50	11/07/03
PCB-1260	< 29. U	3.7 29	50	11/07/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	82.		30-150	38
Decachlorobiphenyl (surrogate)	<0.0	#	30-150	38

#### Notes:

6 : Altered aroclor.6 : Altered aroclor.

38 : Surrogate was diluted
38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:\_

Date: November 18, 2003

Thomas Alexander

Thomas a Clefande

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6710

Sample: B 2857

Sample Description: 4+85-E2 Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

GM - Former Landfill

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

11/06/02

Collected: 11/05/03

Matrix: Solid

Received: 11/05/03 Prepared: 11/06/03 QC Batch: 110603S1

11/06/03 %Solids: 85.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 29.	U	2.6	29	50	11/07/03
PCB-1221	< 29.	U	9.3	29	50	11/07/03
PCB-1232	< 29.	U	6.1	29	50	11/07/03
PCB-1242	< 29.	U	3.8	29	50	11/07/03
PCB-1248	75.	P	1.5	29	50	11/07/03 6
PCB-1254	< 29.	U	3.1	29	50	11/07/03
PCB-1260	< 29.	U	3.7	29	50	11/07/03

<b>D</b>			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	130.	-	30-150	38
Decachlorobiphenyl (surrogate)	<0.0	#	30 - 150	38

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

6 : Altered aroclor.6 : Altered aroclor.

38 : Surrogate was diluted 38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Jhomas a Clefande

Date: November 18, 2003

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 6710 Sample: B 2858

Sample Description: 4+85-W2

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435, 124,62301 Certification NY No.: 10155

11/05/03 Collected:

11/06/03

Matrix: Solid

Received: 11/05/03 Prepared:

QC Batch: 110603S1

%Solids: 84.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 12.	Ū	1.1	12	20	11/06/03
PCB-1221	< 12.	U	3.8	12	20	11/06/03
PCB-1232	< 12.	U	2.5	12	20	11/06/03
PCB-1242	< 12,	U	1.5	12	20	11/06/03
PCB-1248	20.		.61	12	20	11/06/03 6
PCB-1254	< 12.	υ	1.2	12	20	11/06/03
PCB-1260	< 12.	υ	1.5	12	20	11/06/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	92.	-	30-150	38
Decachlorobiphenyl (surrogate)	153.	#	30-150	38

Column Name: DB-608, 30m x .53mm ID

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 7, 2003

**Analytical Results** Method: 8082

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6710 Sample: B2858

Sample Description: 4+85-W2 Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

Collected:

11/05/03

Matrix: Solid

Received: Prepared:

11/05/03 11/06/03

QC Batch: 110603S1

%Solids: 84.0

Sample Size: 30 g

Primary: N

Parameter	Dem.1.					
PCB-1016	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1221	< 12.	Ū	1.1	12	20	11/06/03
PCB-1232	< 12.	Ū	3.8	12	20	11/06/03
PCB-1242	< 12.	Ū	2.5	12	20	11/06/03
PCB-1248	< 12.	U	1.5	12	20	11/06/03
PCB-1254	21.		.61	12	20	11/06/03
PCB-1260	< 12.	Ū	1.2	12	20	11/06/03
2220	< 12.	U	1.5	12	20	11/06/03

Surrogate 2,4,5,6-Tetrachloro-m-Xylene (surrogate)	%R	Qual	%R Limits	Notes
Decachlorobiphenyl (surrogate)	101.		30-150	38
	109.		30-150	38

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

6: Altered aroclor.

38: Surrogate was diluted 38: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 7, 2003

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6773

Sample: B3279

Sample Description: 1 + 12 - N. Wall

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

mg/Kg Dry weight

Certification NY No.: 10155

Collected: 11/10/03

Matrix: Solid

Received: 11/11/03 Prepared: 11/11/03 QC Batch: 111103S1

ed: 11/11/03 %Solids: 80.0

Job No.: 3435 . 124 . 62301

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .62	U	.056	. 62	1	11/12/03
PCB-1221	< .62	Ŭ	.20	. 62	1	11/12/03
PCB-1232	< .62	U	.13	.62	1	11/12/03
PCB-1242	1.8		.079	.62	1	11/12/03 6
PCB-1248	< .62	U	.031	. 62	1	11/12/03
PCB-1254	< .62	U	.064	. 62	1	11/12/03
PCB-1260	< .62	U	.077	.62	1	11/12/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	90.		30-150	
Decachlorobiphenyl (surrogate)	73.		30-150	

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

6: Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized: / homand Date: November 12, 2003

**Method: 8082** 

Job No.: 3435 . 124 . 62301

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6773 Sample: B3279

Sample Description: 1 + 12 - N. Wall

Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: DB-608, 30m x .53mm ID

Collected: Received:

11/10/03

Matrix: Solid

11/11/03

Certification NY No.: 10155

QC Batch: 111103S1

Prepared: 11/11/03

%Solids: 80.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed No	tes
PCB-1016	< .62	U	.056	. 62	1	11/12/03	<del></del>
PCB-1221	< .62	U	.20	.62	1	11/12/03	
PCB-1232	< .62	U	.13	.62	1	11/12/03	
PCB-1242	1.8		.079	. 62	1	11/12/03	6
PCB-1248	< .62	U	.031	.62	1	11/12/03	-
PCB-1254	< .62	U	.064	.62	1	11/12/03	
PCB-1260	< .62	U	.077	. 62	1	11/12/03	

Surrogate	%R	Oual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	93.		30-150	
Decachlorobiphenyl (surrogate)	84.		30-150	

#### Notes:

6 : Altered aroclor. : Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized: Date: November 21, 2003

Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Method: 8082

11/11/03

Collected:

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6773 Sample: B3280

Sample Description: 0 + 25 - N. Wall

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: DB-1701, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

11/10/03

Received: 11/11/03 QC Batch: 111103S1 Prepared:

%Solids: 74.0

Matrix: Solid

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .68	U	.061	.68	1	11/12/03
PCB-1221		_			1	
PCB-1232	< .68	υ	.21	.68	1	11/12/03
	< .68	υ	.14	.68	1	11/12/03
PCB-1242	< .68	υ	.086	. 68	1	11/12/03
PCB-1248	< .68	υ	.034	. 68	1	11/12/03
PCB-1254	< .68	υ	.070	.68	1	11/12/03
PCB-1260	< .68	Ü	=			
	· .00	U	.084	. 68	1	11/12/03

Surrogate	₽R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	81.		30-150	
Decachlorobiphenyl (surrogate)	67.		30-150	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized: Date: November 12, 2003

**Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6805 Sample: B3487

Sample Description: 4+85-E3

Instrument:

HP5890-90

mg/Kg Dry weight Number of analytes: 7

Column Name: DB-608, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Matrix: Solid Collected: 11/13/03

Received: 11/13/03 QC Batch: 111403S1 Prepared: 11/14/03

%Solids: 87.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .57	υ	.052	.57	1	11/14/03
PCB-1221	< .57	U	,18	.57	1	11/14/03
PCB-1232	< .57	Ü	.12	.57	1	11/14/03
PCB-1242	< .57	Ü	.073	.57	1	11/14/03
PCB-1248	2.7		.029	.57	1	11/14/03
PCB-1254	< .57	U	.060	.57	1	11/14/03
PCB-1260	< .57	U	.072	.57	1	11/14/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	100.		30-150	
Decachlorobiphenyl (surrogate)	89.		30 - 150	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 14, 2003

Analytical Results **Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 6805 Sample: B3487

Sample Description: 4+85-E3 Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

11/13/03 Collected:

Matrix: Solid Received: 11/13/03 QC Batch: 111403S1

Prepared: 11/14/03

%Solids: 87.0 Sample Size: 30 g

Primary: N

Parameter	Result (	Qual MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .57 U	.052	- 12-		
PCB-1221	<del>-</del> <del>-</del>		.57	1	11/14/03
PCB-1232	< .57 U	.18	.57	1	11/14/03
<del></del>	< .57 ℧	.12	.57	1	11/14/03
PCB-1242	< .57 ℧	.073	.57	1	
PCB-1248	<del>-</del>			1	11/14/03
PCB-1254	3.0	.029	.57	1	11/14/03
	< .57 ℧	.060	.57	1	11/14/03
PCB-1260	< .57 U	.072	.57	1 .	11/14/03

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	94.		30-150	
Decachlorobiphenyl (surrogate)	79.		30-150	

Column Name: DB-1701, 30m x .53mm ID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 20, 2003

**Analytical Results Method: 8082** 

Job No.: 3435.135.11180

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

GM - SPDES Treatment System IRM Project:

Proj. Desc:

Package#: 8023 Sample: E 0527

Sample Description: TB-04-1 (0'-1')

HP5890-89 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

06/01/04 Collected: Received:

Prepared:

06/01/04

Matrix: Solid QC Batch: 060204S1

06/02/04

%Solids: 85.8

Sample Size: 30 g Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .58	υ	.58	1	06/07/04
PCB-1221	< .58	υ	.58	1	06/07/04
PCB-1232	< .58	U	.58	1	06/07/04
PCB-1242	< .58	Ü	.58	1	06/07/04
PCB-1248	< .58	Ü	.58	1	06/07/04
PCB-1254	< .58	U	.58	1	06/07/04
PCB-1260	< .58	U	,58	1	06/07/04

			₽R		
Surrogate	%R	Qual	Limits		
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	85.		41-143		
Decachlorobiphenyl (surrogate)	81.		29-148		

Column Name: RTXCLP, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

**Analytical Results Method: 8082** 

Job No.: 3435 . 135 . 11180

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

GM - SPDES Treatment System IRM Project:

Proj. Desc:

Package#: 8023

06/01/04 Matrix: Solid Collected: Sample: E 0528 06/01/04 QC Batch: 060204S1 Received: Sample Description: TB-04-1 (1'-2') Prepared: 06/02/04

HP5890-89 Instrument: mg/Kg Dry weight Units:

Column Name: RTXCLP, 30m x .53mmID Number of analytes: 7

%Solids: 88.6

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .56	υ	.56	1	06/07/04
PCB-1221	< .56	U	.56	1	06/07/04
PCB-1232	< .56	υ	.56	1	06/07/04
PCB-1242	< .56	U	.56	1	06/07/04
PCB-1248	< .56	Ū	.56	1	06/07/04
PCB-1254	< .56	υ	.56	1	06/07/04
PCB-1260	< .56	U	.56	1	06/07/04

			%R
Surrogate	₹R	Qual	Limits
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	88.	•	41-143
Decachlorobiphenyl (surrogate)	85.		29-148

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - SPDES Treatment System IRM Project:

Proj. Desc:

Package#: 8023 Sample: E 0529

Sample Description: TB-04-1 (2'-3')

HP5890-89 Instrument:

Units: mg/Kg Dry weight Number of analytes: 7

Job No.: 3435.135.11180

Certification NY No.: 10155

06/01/04 Collected:

06/01/04

Matrix: Solid QC Batch: 060204S1

Received: Prepared: 06/02/04

%Solids: 95.7

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .52	Ü	.52	1	06/07/04
PCB-1221	< .52	Ü	.52	1	06/07/04
PCB-1232	< .52	υ	.52	1	06/07/04
PCB-1242	< .52	U	.52	1	06/07/04
PCB-1248	< .52	Ū	.52	1	06/07/04
PCB-1254	< .52	U	.52	1	06/07/04
PCB-1260	< .52	U	.52	1	06/07/04

			₹R
Surrogate	%R	Qual	Limits
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	93.		41-143
Decachlorobiphenyl (surrogate)	94.		29-148

Column Name: RTXCLP, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Units:

Package#: 8023 Sample: E 0530

Sample Description: TB-04-2 (0'-1')

HP5890-89 Instrument: mg/Kg Dry weight

Number of analytes: 7

Certification NY No.: 10155

06/01/04 Collected:

Matrix: Solid

Job No.: 3435.135.11180

06/01/04 Received: Prepared: 06/02/04 QC Batch: 060204S1

%Solids: 85.3

Sample Size: 30 g Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .59	U	.59	1	06/07/04
PCB-1221	< .59	U	.59	1	06/07/04
PCB-1232	< .59	U	.59	1	06/07/04
PCB-1242	< .59	U	.59	1	06/07/04
PCB-1248	< .59	U	.59	1	06/07/04
PCB-1254	< .59	U	.59	1	06/07/04
PCB-1260	< .59	U	.59	1	06/07/04

			%R
Surrogate	%R	Qual	Limits
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	87.		41-143
Decachlorobiphenyl (surrogate)	81.		29-148

Column Name: RTXCLP, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

**Analytical Results** Method: 8082

Job No.: 3435 . 135 . 11180

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

GM - SPDES Treatment System IRM Project:

Proj. Desc:

Package#: 8023 Sample: E 0531

Sample Description: TB-04-2 (1'-2')

HP5890-89 Instrument: mg/Kg Dry weight Units:

Number of analytes: 7

Collected:

Column Name: RTXCLP, 30m x .53mmID

Received: Prepared:

06/01/04 06/01/04 06/02/04

Matrix: Solid QC Batch: 060204S1

%Solids: 90.6 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .55	U	.55	1	06/07/04
PCB-1221	< .55	U	.55	1	06/07/04
PCB-1232	< .55	U	.55	1	06/07/04
PCB-1242	< .55	U	.55	1	06/07/04
PCB-1248	< .55	U	.55	1	06/07/04
PCB-1254	< .55	U	.55	1	06/07/04
PCB-1260	< .55	[1	55	1	06/07/04

Surrogate	%R	Qual	%R Limits
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	88.		41-143
Decachlorobiphenyl (surrogate)	87.		29-148

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - SPDES Treatment System IRM Project:

Proj. Desc:

Package#: 8023 Sample: E 0532

Sample Description: TB-04-2 (2'-3')

HP5890-89 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 135 . 11180 Certification NY No.: 10155

06/01/04 Matrix: Solid Collected:

06/01/04 QC Batch: 060204S1 Received: Prepared: 06/02/04 %Solids: 90.6

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .55	U	.55	1	06/07/04
PCB-1221	< .55	υ	.55	1	06/07/04
PCB-1232	< .55	U	.55	1	06/07/04
PCB-1242	< .55	υ	.55	1	06/07/04
PCB-1248	2.3		.55	1	06/07/04
PCB-1254	< .55	υ	.55	1	06/07/04
PCB-1260	< .55	υ	.55	1	06/07/04

			₹R
Surrogate	%R	Qual	Limits
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	93.		41-143
Decachlorobiphenyl (surrogate)	93.		29-148

Column Name: RTXCLP, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 8023 Sample: E 0533

Sample Description: TB-04-3 (0'-1')

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

E 0533

Collected: Received:

Prepared:

06/01/04 06/01/04 Matrix: Solid

QC Batch: 060204S1

06/02/04 %Solids: 81.3

Job No.: 3435 . 135 . 11180

Certification NY No.: 10155

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .62	U	. 62	1	06/07/04
PCB-1221	< .62	U	.62	1	06/07/04
PCB-1232	< .62	. Ω	.62	1	06/07/04
PCB-1242	< .62	U	. 62	1	06/07/04
PCB-1248	4.8		.62	1	06/07/04 6
PCB-1254	< .62	U	.62	1	06/07/04
PCB-1260	< .62	. п	. 62	1	06/07/04

		%R		
Surrogate	%R	Qual	Limits	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	90.		41-143	
Decachlorobiphenyl (surrogate)	88.		29-148	

Column Name: RTXCLP, 30m x .53mmID

#### Notes:

6 : Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - SPDES Treatment System IRM Project:

Proj. Desc:

Package#: 8023

E0534 Sample:

Sample Description: TB-04-3 (1'-2')

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435.135.11180

Certification NY No.: 10155

06/01/04

06/01/04

06/02/04

Collected:

Received:

Prepared:

Matrix: Solid

QC Batch: 060204S1

%Solids: 87.9

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .57	U	.57	1	06/07/04
PCB-1221	< .57	U	.57	1	06/07/04
PCB-1232	< .57	U	.57	1	06/07/04
PCB-1242	< .57	$\overline{\mathbf{U}}$	.57	1	06/07/04
PCB-1248	1.1		.57	1	06/07/04 6
PCB-1254	< .57	U	.57	1	06/07/04
PCB-1260	< .57	U	.57	1	06/07/04

			%R
Surrogate	%R	Qual	Limits
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	89.		41-143
Decachlorobiphenyl (surrogate)	90.		29-148

#### Notes:

6 : Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 8023 Sample: E 0535

Sample Description: TB-04-3 (2'-3')

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 135 . 11180 Certification NY No.: 10155

06/01/04 Collected: Matrix: Solid

Received: 06/01/04 QC Batch: 060204S1 Prepared: 06/02/04

%Solids: 83.7 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .60	U	.60	1	06/07/04
PCB-1221	< .60	U	.60	1	06/07/04
PCB-1232	< .60	U	.60	1	06/07/04
PCB-1242	< .60	U	.60	1	06/07/04
PCB-1248	< .60	U	.60	1	06/07/04
PCB-1254	< .60	U	.60	1	06/07/04
PCB-1260	< .60	U	.60	1	06/07/04

			%R
Surrogate	%R	Qual	Limits
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	80.		41-143
Decachlorobiphenyl (surrogate)	70.		29-148

Column Name: RTXCLP, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 8023 Sample: E0536

Sample Description: TB-04-4 (0'-2')

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Collected: Received:

Prepared:

06/01/04 06/01/04 Matrix: Solid

QC Batch: 060204S1 06/02/04

Job No.: 3435, 135, 11180

Certification NY No.: 10155

%Solids: 87.2 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .57	U	.57	1	06/07/04
PCB-1221	< .57	U	.57	1	06/07/04
PCB-1232	< .57	U	.57	1	06/07/04
PCB-1242	< .57	Ū	.57	1	06/07/04
PCB-1248	2.3		.57	1	06/07/04 6
PCB-1254	< .57	U	.57	1	06/07/04
PCB-1260	< .57	U	.57	1	06/07/04

		₹R		
Surrogate	%R	Qual	Limits	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	83.		41-143	
Decachlorobiphenyl (surrogate)	78.		29-148	

Column Name: RTXCLP2, 30m x .53mmID

#### Notes:

6 : Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 8023 Sample: E0537

Sample Description: TB-04-4 (2'-4')

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 135 . 11180

Certification NY No.: 10155

06/01/04 Collected:

Matrix: Solid

Received: 06/01/04 Prepared: 06/02/04 QC Batch: 060204S1 %Solids: 92.8

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .54	U	.54	1	06/07/04
PCB-1221	< ,54	U	.54	1	06/07/04
PCB-1232	< .54	Ū	.54	1	06/07/04
PCB-1242	< .54	U	.54	1	06/07/04
PCB-1248	2.4		.54	1	06/07/04
PCB-1254	< .54	U	.54	1	06/07/04
PCB-1260	< .54	ΙŢ	5.4	7	06/07/04

			₹R
Surrogate	%R	Qual	Limits
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	87.		41-143
Decachlorobiphenyl (surrogate)	86.		29-148

Column Name: RTXCLP2, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Certification NY No.: 10155

Proj. Desc:

Package#: 8023
Sample: E 0538
Collected: 06/01/04 Matrix: Solid

Sample Description: TB-04-4 (4'-6') Received: 06/01/04 QC Batch: 060204S1

Instrument: HP5890-89 Prepared: 06/02/04 %Solids: 87.5
Units: mg/Kg Dry weight Sample Size: 30 g

Number of analytes: 7 Column Name: RTXCLP2, 30m x .53mmID Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .57	U	.57	1	06/07/04
PCB-1221	< .57	U	.57	1	06/07/04
PCB-1232	< .57	U	.57	1	06/07/04
PCB-1242	< .57	U	.57	1	06/07/04
PCB-1248	< .57	Ū	.57	1	06/07/04
PCB-1254	< .57	U	.57	1	06/07/04
PCB-1260	< .57	Ū	.57	1	06/07/04

	%R				
Surrogate	%R	Qual	Limits		
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	81.		41-143		
Decachlorobiphenyl (surrogate)	77.		29-148		

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Anthorized:

Date: June 9, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 8023 Sample: E0539

Sample Description: TB-04-4 (6'-8')

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Certification NY No.: 10155

Job No.: 3435 . 135 . 11180

06/01/04 Collected:

Matrix: Solid

Received: 06/01/04

Prepared:

.65

U

06/02/04

QC Batch: 060204S1

%Solids: 77.3

Sample Size: 30 g Primary: Y

06/07/04

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .65	Ü	.65	1	06/07/04
PCB-1221	< .65	U	.65	1	06/07/04
PCB-1232	< .65	U	.65	1	06/07/04
PCB-1242	< .65	U	.65	1	06/07/04
PCB-1248	< .65	U	.65	1	06/07/04
PCB-1254	< .65	Ū	.65	1	06/07/04

< .65

Column Name: RTXCLP2, 30m x .53mmID

			%R
Surrogate	%R	Qual	Limits
2, 4, 5, 6-Tetrachloro-m-Xylene (surrogate)	71.		41-143
Decachlorobiphenyl (surrogate)	67.		29-148

Notes:

PCB-1260

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 8023

Sample: E 0540

Sample Description: TB-04-4 (8'-10')

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435, 135, 11180 Certification NY No.: 10155

06/01/04 Collected: Matrix: Solid

06/01/04 QC Batch: 060204S1 Received: Prepared: 06/02/04

%Solids: 78.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .64	U	. 64	1	06/07/04
PCB-1221	< .64	U	.64	1	06/07/04
PCB-1232	< .64	U	.64	1	06/07/04
PCB-1242	< .64	U	.64	1	06/07/04
PCB-1248	< .64	U	.64	1	06/07/04
PCB-1254	< .64	U	.64	1	06/07/04
PCB-1260	< .64	Ū	.64	1	06/07/04

			%R
Surrogate	%R	Qual	Limits
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	75.		41-143
Decachlorobiphenyl (surrogate)	72.		29-148

Column Name: RTXCLP2, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 8023 Sample: E0541

TB-04-4 (10'-12') Sample Description:

HP5890-89 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

Collected: Received:

Prepared:

06/01/04

Matrix: Solid

Job No.: 3435, 135, 11180

Certification NY No.: 10155

06/01/04 06/02/04 QC Batch: 060204S1

%Solids: 78.9

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .63	υ	.63	1	06/07/04
PCB-1221	< .63	υ	.63	1	06/07/04
PCB-1232	< .63	υ	. 63	1	06/07/04
PCB-1242	< .63	U	.63	1	06/07/04
PCB-1248	< .63	υ	.63	1	06/07/04
PCB-1254	< .63	U	. 63	1	06/07/04
PCB-1260	< .63	U	.63	1	06/07/04

			%R
Surrogate	₽R	Qual	Limits
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	82.		41-143
Decachlorobiphenyl (surrogate)	81.		29-148

Column Name: RTXCLP2, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project:

Proj. Desc:

Package#: 8023 E0542 Sample:

TB-04-4 (12'-14') Sample Description:

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

GM - SPDES Treatment System IRM

Collected: Received:

Prepared:

06/01/04 06/01/04

06/02/04

Matrix: Solid

Job No.: 3435, 135, 11180

Certification NY No.: 10155

QC Batch: 060204S1

%Solids: 76.3

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .66	Ŭ	.66	1	06/07/04
PCB-1221	< .66	U	.66	1	06/07/04
PCB-1232	< .66	U	.66	1	06/07/04
PCB-1242	< .66	U	.66	1	06/07/04
PCB-1248	< .66	U	.66	1	06/07/04
PCB-1254	< .66	U	.66	1	06/07/04
PCB-1260	< .66	IJ	. 66	1	06/07/04

			%R
Surrogate	%R	Qual	Limits
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	76.		41-143
Decachlorobiphenyl (surrogate)	79.		29-148

Column Name: RTXCLP2, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

Thomas Alexander

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**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 8023

Sample: E0543

Sample Description: TB-04-4 (14'-16')

Instrument: HP5890-89 mg/Kg Dry weight Units:

Number of analytes: 7

Job No.: 3435 . 135 . 11180 Certification NY No.: 10155

06/01/04 Collected:

Received:

Prepared:

Matrix: Solid

06/01/04

06/02/04

QC Batch: 060204S1

%Solids: 74.5 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .67	U	.67	1	06/07/04
PCB-1221	< .67	U	.67	1	06/07/04
PCB-1232	< .67	U	.67	1	06/07/04
PCB-1242	< .67	U	.67	1	06/07/04
PCB-1248	< .67	U	.67	1	06/07/04
PCB-1254	< .67	U	.67	1	06/07/04
PCB-1260	< .67	U	. 67	1	06/07/04

Column Name: RTXCLP2, 30m x .53mmID

O	0.5		%R
Surrogate	%R	Qual	Limits
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	74.		41-143
Decachlorobiphenyl (surrogate)	78.		29-148

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project:

Proj. Desc:

Package#: 8023 Sample: E 0544

Sample Description: TB-04-4 (16'-18')

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

GM - SPDES Treatment System IRM

06/01/04 Collected:

Received: 06/01/04

Prepared:

06/02/04

Matrix: Solid

Job No.: 3435, 135, 11180

Certification NY No.: 10155

QC Batch: 060204S1

%Solids: 71.1

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .70	Ŭ	.70	1	06/07/04
PCB-1221	< .70	U	.70	1	06/07/04
PCB-1232	< .70	U	.70	1	06/07/04
PCB-1242	< .70	U	.70	1	06/07/04
PCB-1248	< .70	U	.70	1	06/07/04
PCB-1254	< .70	U	.70	1	06/07/04
PCB-1260	< .70	υ	.70	1	06/07/04

			₹R
Surrogate	%R	Qual	<u>Limits</u>
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	74.		41-143
Decachlorobiphenyl (surrogate)	77.		29-148

Column Name: RTXCLP2, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - SPDES Treatment System IRM

Proj. Desc:

Package#: 8023

Sample: E 0545 TB-04-4 (18'-20')

Sample Description:

HP5890-89 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435, 135, 11180 Certification NY No.: 10155

06/01/04 Collected:

Matrix: Solid

Received: 06/01/04 Prepared: 06/02/04 QC Batch: 060204S1

%Solids: 76.6

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	PQL	Dil	Analyzed Notes
PCB-1016	< .65	U	. 65	1	06/07/04
PCB-1221	< .65	U	.65	1	06/07/04
PCB-1232	< .65	U	.65	1	06/07/04
PCB-1242	< .65	U	.65	1	06/07/04
PCB-1248	< .65	U	.65	1	06/07/04
PCB-1254	< .65	U	.65	1	06/07/04
PCB-1260	< .65	U	. 65	1	06/07/04

			%R
Surrogate	%R	Qual	Limits
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	86.		41-143
Decachlorobiphenyl (surrogate)	93.		29-148

Column Name: RTXCLP2, 30m x .53mmID

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: June 9, 2004

#### Laboratories, Inc.

**Method:** 8082

08/17/04

08/18/04

Received:

Prepared:

Client: O'Brien & Gere Engineers, Inc. Project:

GM Syracuse, Drainage Swale

Proj. Desc:

Package#: 8649 Sample: E4802

Sample Description: 6+52-NW

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: RTXCLP, 30m x .53mmID

Job No.: 3435 . 106 . 62301

Certification NY No.: 10155

Collected: 08/17/04 Matrix: Solid

> QC Batch: 081804S1 %Solids: 53.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 1.9	Ŭ	.25	1.9	2	08/18/04
PCB-1221	< 1.9	U	.33	1.9	2	08/18/04
PCB-1232	< 1.9	บ	.22	1.9	2	08/18/04
PCB-1242	< 1.9	U	.16	1.9	2	08/18/04
PCB-1248	10.		.13	1.9	2	08/18/04
PCB-1254	< 1.9	U	.076	1.9	2	08/18/04
PCB-1260	< 1.9	Ŭ	.12	1.9	2	08/18/04

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	25.	#	30-150	38
Decachlorobiphenyl (surrogate)	51.		30-150	38

#### Notes:

: Surrogate was diluted : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: September 9, 2004

### Laboratories, Inc.

Method: 8082

Client: O'Brien & Gere Engineers, Inc. Project:

GM Syracuse, Drainage Swale

Proj. Desc:

Package#: 8649 Sample: E4802

Sample Description: 6+52-NW

Instrument: HP5890-89 Umits: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435, 106,62301 Certification NY No.: 10155

08/17/04 Collected:

Matrix: Solid QC Batch: 081804S1

Received: Prepared:

08/17/04 08/18/04

%Solids: 53.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 1.9 t	)	. 25	1.9	2	08/18/04
PCB-1221	< 1.9 t	נ	.33	1.9	2	08/18/04
PCB-1232	< 1.9 t	j	.22	1.9	2	08/18/04
PCB-1242	< 1.9 t	נ	.16	1.9	2	08/18/04
PCB-1248	12.		.13	1.9	2	08/18/04
PCB-1254	< 1.9 t	j	.076	1.9	2	08/18/04
PCB-1260	< 1.9 t	j	.12	1.9	2	08/18/04

Surrogate	%R	Oual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	28.	#	30-150	38
Decachlorobiphenyl (surrogate)	48.		30-150	38

Column Name: RTXCLP2, 30m x .53mmID

#### Notes:

38 : Surrogate was diluted 38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: September 9, 2004

#### Laboratories, Inc.

**Method:** 8082

Client: O'Brien & Gere Engineers, Inc. Project:

GM Syracuse, Drainage Swale

Proj. Desc:

Package#: 8675 Sample:

Sample Description: 7+52-NW

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

E5092

Column Name: RTXCLP2, 30m x .53mmID

Certification NY No.: 10155

Job No.: 3435, 106,62301

Collected: 08/18/04 Matrix: Solid Received:

08/18/04 QC Batch: 081904S3 Prepared: 08/19/04 %Solids: 43.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 1.2	Ū	.16	1.2	1	08/19/04
PCB-1221		U	.20	1.2	1	08/19/04
PCB-1232	< 1.2	U	.14	1.2	1	08/19/04
PCB-1242	< 1.2	U	.10	1.2	1	08/19/04
PCB-1248	11.	P	.079	1.2	1	08/19/04
PCB-1254	< 1.2	U	.047	1.2	1	08/19/04
PCB-1260	< 1.2	U	.077	1.2	1	08/19/04

			%R			
Surrogate	%R	Qual	Limits	Notes		
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	63.		30-150			
Decachlorobiphenyl (surrogate)	62.		30-150			

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Date: September 9, 2004

Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

#### O Ditten or Gere Laboratories, Inc.

Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM Syracuse, Drainage Swale

Proj. Desc:

Package#: 8675 Sample: E5092

Sample Description: 7+52-NW

Instrument: HP5890-89 Units:

mg/Kg Dry weight Column Name: RTXCLP, 30m x .53mmID Number of analytes: 7

Job No.: 3435, 106,62301 Certification NY No.: 10155

08/18/04 Matrix: Solid Collected:

QC Batch: 081904S3 08/18/04 Received:

Prepared: 08/19/04 %Solids: 43.0

Sample Size: 30 g

Primary: N

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 1.2 U	.16	1.2	1	08/19/04
PCB-1221	< 1.2 U	.20	1.2	1	08/19/04
PCB-1232	< 1.2 U	.14	1.2	1	08/19/04
PCB-1242	< 1.2 U	.10	1.2	1	08/19/04
PCB-1248	8.0 P	.079	1.2	1	08/19/04
PCB-1254	< 1.2 U	.047	1.2	1	08/19/04
PCB-1260	< 1.2 U	.077	1.2	1	08/19/04

Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	58.		30-150	
Decachlorobiphenyl (surrogate)	64.		30-150	

Notes:

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: September 9, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Proj. Desc:

Package#: 9074 Sample: E7742

Sample Description: SS-02-05-W3

HP5890-90 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

Collected: Received:

Prepared:

10/07/04

10/07/04

Matrix: Solid

10/07/04

QC Batch: 100704S2

%Solids: 94.0

Sample Size: 30 g

Primary: Y

Parameter	Result (	Qual M	OL PQL	Dil	Analyzed Notes
PCB-1016	< 2.7 U	.36	2.7	5	10/08/04
PCB-1221	< 2.7 U	.46	2.7	5	10/08/04
PCB-1232	< 2.7 U	.31	2.7	5	10/08/04
PCB-1242	< 2.7 U	.23	2.7	5	10/08/04
PCB-1248	17.	P .18	2.7	5	10/08/04 6
PCB-1254	< 2.7 U	.11	2.7	5	10/08/04
PCB-1260	< 2.7 U	.18	2.7	5	10/08/04

			%R		
Surrogate	%R	Qual	Limits_	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	113.		30-150	38	
Decachlorobiphenyl (surrogate)	137.		30-150	38	

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

6 : Altered aroclor.

38 : Surrogate was diluted : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 2, 2004

**Analytical Results Method: 8082** 

10/07/04

Collected:

Received:

Prepared:

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9074 Sample: E7742

Sample Description: SS-02-05-W3

Instrument: HP5890-90

Units: mg/Kg Dry weight Number of analytes: 7

Column Name: DB-608, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/07/04 Matrix: Solid

10/07/04 QC Batch: 100704S2

%Solids: 94.0

Sample Size: 30 g

Primary: N

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 2.7 U	.36	2.7	5	10/08/04
PCB-1221	< 2.7 U	.46	2.7	5	10/08/04
PCB-1232	< 2.7 U	.31	2.7	5	10/08/04
PCB-1242	< 2.7 U	.23	2.7	5	10/08/04
PCB-1248	10.	.18	2.7	5	10/08/04 6
PCB-1254	< 2.7 U	.11	2.7	5	10/08/04
PCB-1260	< 2.7 U	.18	2.7	5	10/08/04

		*R			
Surrogate	%R	Qual	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	102.		30-150	38	
Decachlorobiphenyl (surrogate)	109.		30-150	38	

#### Notes:

: Altered aroclor. 6 : Altered aroclor. : Surrogate was diluted 38 38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

homas a Alefande Date: November 8, 2004

**Analytical Results Method: 8082** 

Job No.: 3435, 124,62301

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9074 Sample: E7731

Sample Description: 6+10-BANK-N

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Collected: Received:

Prepared:

10/07/04

Matrix: Solid

10/07/04 10/07/04

QC Batch: 100704S2

%Solids: 87.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 230.	U	31.	230	400	10/08/04
PCB-1221	< 230.	Ū	40.	230	400	10/08/04
PCB-1232	< 230.	υ	27.	230	400	10/08/04
PCB-1242	< 230.	U	20.	230	400	10/08/04
PCB-1248	1300.	P	16.	230	400	10/08/04 6
PCB-1254	< 230.	υ	9.2	230	400	10/08/04
PCB-1260	< 230.	U	15.	230	400	10/08/04

	*R					
Surrogate		Qual	Limits	Notes		
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	78.		30-150	38		
Decachlorobiphenyl (surrogate)	99.		30-150	38		

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

6 : Altered aroclor.

: Surrogate was diluted : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 2, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9074

Sample: E7731

Sample Description: 6+10-BANK-N

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Collected: Received:

Prepared:

10/07/04

Matrix: Solid

10/07/04

10/07/04

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

QC Batch: 100704S2

%Solids: 87.0

Sample Size: 30 g

Primary: N

Parameter	Result (	Qual MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 230. U	31.	230	400	10/08/04
PCB-1221	< 230. U	40.	230	400	10/08/04
PCB~1232	< 230. U	27.	230	400	10/08/04
PCB-1242	< 230. U	20.	230	400	10/08/04
PCB-1248	900.	16.	230	400	10/08/04 6
PCB-1254	< 230. U	9.2	230	400	10/08/04
PCB-1260	< 230. U	15.	230	400	10/08/04

			%R		
Surrogate	%R	Qual	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	76.		30-150	38	
Decachlorobiphenyl (surrogate)	97.		30-150	38	

Column Name: DB-608, 30m x .53mm ID

#### Notes:

: Altered aroclor. : Altered aroclor.

: Surrogate was diluted 38 : Surrogate was diluted 38

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 8, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9074 Sample: E7732

Sample Description: 6+10-BANK-S

Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

Collected: Received:

Prepared:

10/07/04

10/07/04

Matrix: Solid

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/07/04

QC Batch: 100704S2

%Solids: 87.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 29.	U	3.9	29	50	10/08/04
PCB-1221	< 29.	U	5.0	29	50	10/08/04
PCB-1232	< 29.	U	3.3	29	50	10/08/04
PCB-1242	< 29.	U	2.5	29	50	10/08/04
PCB-1248	190.	P	1.9	29	50	10/08/04 6
PCB-1254	< 29.	U	1.2	29	50	10/08/04
PCB-1260	< 29.	U	1.9	29	50	10/08/04

			%R		
Surrogate	%R	Qual	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	79.		30-150	38	
Decachlorobiphenyl (surrogate)	102.		30-150	38	

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

6 : Altered aroclor.

: Surrogate was diluted : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 2, 2004

**Analytical Results Method: 8082** 

10/07/04

10/07/04

Collected:

Received:

Prepared:

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9074

Sample:

Sample Description: 6+10-BANK-S

Instrument:

HP5890-90

Units: mg/Kg Dry weight Number of analytes: 7

E7732

Column Name: DB-608, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/07/04 Matrix: Solid

QC Batch: 100704S2

%Solids: 87.0 Sample Size: 30 g

Primary: N

Parameter	Result Qual	MDL	PQL Dil	Analyzed Notes
PCB-1016	< 29. U	3.9 29	50	10/08/04
PCB-1221	< 29. U	5.0 29	50	10/08/04
PCB-1232	< 29. U	3.3 29	50	10/08/04
PCB-1242	< 29. U	2.5 29	50	10/08/04
PCB-1248	150.	1.9 29	50	10/08/04 6
PCB-1254	< 29. U	1.2 29	50	10/08/04
PCB-1260	< 29. U	1.9 29	50	10/08/04

			₹R		
Surrogate	&R	Qual	Limits	Notes	
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	76.		30-150	38	
Decachlorobiphenyl (surrogate)	97.		30-150	38	

#### Notes:

6 : Altered aroclor. : Altered aroclor. : Surrogate was diluted 38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 8, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 9074 Sample: E7733

Sample Description: 6+10-BANK-W

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435, 124,62301 Certification NY No.: 10155

> 10/07/04 Collected:

Matrix: Solid

Received: 10/07/04 QC Batch: 100704S2

Prepared: 10/07/04

%Solids: 86.0 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 58. C	J	7.8	58	100	10/08/04
PCB-1221	< 58. (	J	10.	58	100	10/08/04
PCB-1232	< 58. (	J	6.8	58	100	10/08/04
PCB-1242	< 58.     (	J	5.0	58	100	10/08/04
PCB-1248	620.		3.9	58	100	10/08/04 6
PCB-1254	< 58. (	J	2.3	58	100	10/08/04
PCB-1260	< 58. (	ţ	3.8	58	100	10/08/04

			%R	
Surrogate	₹R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	57.		30-150	38
Decachlorobiphenyl (surrogate)	73.		30-150	38

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

6 : Altered aroclor.

: Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 11, 2004

**Analytical Results Method: 8082** 

10/07/04

10/07/04

Collected:

Received:

Prepared:

Client: O'Brien & Gere Engineers, Inc. Job No.: 3435 . 124 . 62301 GM - Former Landfill Project: Certification NY No.: 10155

Proj. Desc:

Package#: 9074 Sample: E7733

Sample Description: 6+10-BANK-W

Instrument: HP5890-90 mg/Kg Dry weight Units:

Number of analytes: 7 Column Name: DB-608, 30m x .53mm ID

10/07/04 Matrix: Solid

QC Batch: 100704S2

%Solids: 86.0 Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 58.	U	7.8	58	100	10/08/04
PCB-1221	< 58.	U	10,	58	100	10/08/04
PCB-1232	< 58.	U	6.8	58	100	10/08/04
PCB-1242	< 58.	U	5.0	58	100	10/08/04
PCB-1248	530.		3.9	58	100	10/08/04 6
PCB-1254	< 58.	U	2.3	58	100	10/08/04
PCB-1260	< 58.	U	3.8	58	100	10/08/04

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	57.		30-150	38
Decachlorobiphenyl (surrogate)	77.		30-150	38

#### Notes:

6 : Altered aroclor. : Altered aroclor. : Surrogate was diluted 38 38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 8, 2004

Thomas Alexander

Thomas a Clefrale

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9074 Sample: E7734

Sample Description: 6+10-BANK-E

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: DB-1701, 30m x .53mm ID

Collected:

10/07/04

Matrix: Solid

Job No.: 3435, 124,62301

Certification NY No.: 10155

Received: 10/07/04

QC Batch: 100704S2

Prepared: 10/07/04 %5

%Solids: 91.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 27.	U	3.7	27	50	10/08/04
PCB-1221	< 27.	U	4.7	27	50	10/08/04
PCB-1232	< 27.	U	3.2	27	50	10/08/04
PCB-1242	< 27.	U	2.3	27	50	10/08/04
PCB-1248	160.	P	1.8	27	50	10/08/04 6
PCB-1254	< 27.	U	1.1	27	50	10/08/04
PCB-1260	< 27.	U	1.8	27	50	10/08/04

			₹R	
Surrogate	₹R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	86.	•	30-150	38
Decachlorobiphenyl (surrogate)	104.		30-150	38

#### Notes:

6 : Altered aroclor.

38 : Surrogate was diluted
38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 2, 2004

777

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9074 Sample: E7734

Sample Description: 6+10-BANK-E

HP5890-90 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

Collected: Received:

10/07/04

Matrix: Solid

10/07/04

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

QC Batch: 100704S2

Prepared: 10/07/04

%Solids: 91.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 27.	U	3.7	27	50	10/08/04
PCB-1221	< 27.	U	4.7	27	50	10/08/04
PCB-1232	< 27.	U	3.2	27	50	10/08/04
PCB-1242	< 27.	U	2.3	27	50	10/08/04
PCB-1248	110.		1.8	27	50	10/08/04 6
PCB-1254	< 27.	U	1.1	27	50	10/08/04
PCB-1260	< 27.	U	1.8	27	50	10/08/04

			₩R	
Surrogate	&R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	81.		30-150	38
Decachlorobiphenyl (surrogate)	98.		30~150	38

Column Name: DB-608, 30m x .53mm ID

#### Notes:

6 : Altered aroclor. 6 : Altered aroclor.

38 : Surrogate was diluted 38 : Surrogate was diluted

Authorized:

Date: November 8, 2004

Thomas Alexander

Thomas a Clefrade

B - Analyte detected above the PQL in the associated Prep Blank.

<sup># -</sup> Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9074 Sample: E7735

Sample Description: 6+10-BANK-F

Instrument: HP5890-90

Number of analytes: 7

Units: mg/Kg Dry weight

Column Name: DB-1701, 30m x .53mm ID

Collected:

Prepared:

Job No.: 3435, 124,62301 Certification NY No.: 10155

10/07/04

10/07/04

Matrix: Solid

Received: 10/07/04

QC Batch: 100704S2 %Solids: 87.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 320.	U	43.	320	555	10/08/04
PCB-1221	< 320.	U	55.	320	555	10/08/04
PCB-1232	< 320.	U	37.	320	555	10/08/04
PCB-1242	< 320.	U	28.	320	555	10/08/04
PCB-1248	2700.		22.	320	555	10/08/04 6
PCB-1254	< 320.	U	13.	320	555	10/08/04
PCB-1260	< 320.	U	21.	320	555	10/08/04

			%R	
Surrogate		Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	126.		30-150	38
Decachlorobiphenyl (surrogate)	<0.0	#	30-150	38

Notes:

6 : Altered aroclor.

38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 11, 2004

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9074 Sample: E 7735

Sample Description: 6+10-BANK-F

Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7 Column Name: DB-608, 30m x .53mm ID

Collected: Received:

Prepared:

10/07/04

10/07/04

Matrix: Solid

10/07/04

(

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

QC Batch: 100704S2

%Solids: 87.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 320.	U	43.	320	555	10/08/04
PCB-1221	< 320.	U	55.	320	555	10/08/04
PCB-1232	< 320.	U	37.	320	555	10/08/04
PCB-1242	< 320.	U	28.	320	555	10/08/04
PCB-1248	2300.		22.	320	555	10/08/04 6
PCB-1254	< 320.	U	13.	320	555	10/08/04
PCB-1260	< 320.	U	21.	320	555	10/08/04

			₹R	
Surrogate	&R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	85.		30-150	38
Decachlorobiphenyl (surrogate)	95.		30-150	38

#### Notes:

6 : Altered aroclor.6 : Altered aroclor.

38 : Surrogate was diluted
38 : Surrogate was diluted

Authorized:

Date: November 8, 2004

Thomas Alexander

Thomas a Stefander

B - Analyte detected above the PQL in the associated Prep Blank.

<sup># -</sup> Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9074 Sample: E7737

Sample Description: SM101-N

HP5890-90 Instrument: mg/Kg Dry weight Units:

Number of analytes: 7

Job No.: 3435, 124,62301

Certification NY No.: 10155

10/07/04 Collected: Matrix: Solid

Received: 10/07/04

Prepared:

QC Batch: 100704S2

10/07/04 %Solids: 75.0 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .66 t	)	.088	.66	1	10/08/04
PCB-1221	< .66 t	j	.11	.66	1	10/08/04
PCB-1232	< .66 t	J	.077	.66	1	10/08/04
PCB-1242	< .66 <sup>^</sup> t	J	.057	.66	1	10/08/04
PCB-1248	.080	J P	.045	.66	1	10/08/04 6
PCB-1254	< .66 t	J	.026	.66	1	10/08/04
PCB-1260	< .66 t	j	.043	.66	1	10/08/04

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	95.		30-150	
Decachlorobiphenyl (surrogate)	103.		30-150	

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

6 : Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 2, 2004

**Analytical Results Method: 8082** 

10/07/04

10/07/04

Collected:

Received:

Prepared:

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9074 Sample:

Sample Description: SM101-N

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

E7737

Column Name: DB-608, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/07/04 QC Batch: 100704S2

%Solids: 75.0

Matrix: Solid

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .66	U	.088	.66	1	10/08/04
PCB-1221	< .66	U	.11	.66	1	10/08/04
PCB-1232	< .66	U	.077	.66	1	10/08/04
PCB-1242	< .66	U	.057	.66	1	10/08/04
PCB-1248	.058	J	.045	.66	1	10/08/04 6
PCB-1254	< .66	Ü	.026	.66	1	10/08/04
PCB-1260	< .66	Ū	.043	.66	1	10/08/04

			&R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	88.		30 - 150	
Decachlorobiphenyl (surrogate)	87.		30~150	

#### Notes:

6 : Altered aroclor. : Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 8, 2004

Thomas Alexander

Thomas a Clefrade

**Analytical Results Method: 8082** 

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9074 Sample: E7738

Sample Description: SM101-S Instrument: HP5890-90

Units:

mg/Kg Dry weight

Number of analytes: 7 Column Name: DB-1701, 30m x .53mm ID Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/07/04 Collected:

Prepared:

Received: 10/07/04 Matrix: Solid

QC Batch: 100704S2 10/07/04

%Solids: 77.0 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	D.: 1	<b>3</b> 3
PCB-1016	< 3.2	U		<del></del>	Dil	Analyzed Notes
PCB-1221		-	. 44	3.2	5	10/08/04
PCB-1232	< 3.2	U	.56	3.2	5	10/08/04
<del>-</del>	< 3.2	U	.38	3.2	5	10/08/04
PCB-1242	< 3.2	U	.28	3.2	5	10/08/04
PCB-1248	15.	P				
PCB-1254		_	.22	3.2	5	10/08/04 6
PCB-1260	< 3.2	U	.13	3.2	5	10/08/04
105 1200	< 3.2	U	.21	3.2	5	10/08/04

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	69.		30-150	38
becachiologiphenyl (surrogate)	98.		30-150	38

#### Notes:

6 : Altered aroclor.

: Surrogate was diluted : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 2, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9074 Sample: E7738

Sample Description: SM101-S

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected:

10/07/04

Matrix: Solid QC Batch: 100704S2

Received: Prepared:

10/07/04 10/07/04

%Solids: 77.0

Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 3.2	U	.44	3.2	5	10/08/04
PCB-1221	< 3.2	U	.56	3.2	5	10/08/04
PCB-1232	< 3.2	U	.38	3.2	5	10/08/04
PCB-1242	< 3.2	U	.28	3.2	5	10/08/04
PCB-1248	10.		.22	3.2	5	10/08/04 6
PCB-1254	< 3.2	U	.13	3.2	5	10/08/04
PCB-1260	< 3.2	U	.21	3.2	5	10/08/04

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	61.		30-150	38
Decachlorobiphenyl (surrogate)	79.		30-150	38

Column Name: DB-608, 30m x .53mm ID

#### Notes:

: Altered aroclor. : Altered aroclor.

: Surrogate was diluted : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 8, 2004

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Proj. Desc:

Package#: 9074

Number of analytes: 7

Sample: E7739 Collected: 10/07/04 Matrix: Solid

Column Name: DB-1701, 30m x .53mm ID

 Sample Description:
 SM101-W
 Received:
 10/07/04
 QC Batch:
 100704S2

 Instrument:
 HP5890-90
 Prepared:
 10/07/04
 %Solids:
 82.0

Instrument: HP5890-90
Units: mg/Kg Dry weight

7/04 %Solids: 82.0 Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .61	U	.082	.61	1	10/08/04
PCB-1221	< .61	U	.11	.61	1	10/08/04
PCB-1232	< .61	Ü	.071	.61	1	10/08/04
PCB-1242	< .61	υ	.053	.61	1	10/08/04
PCB-1248	.10	J	.041	.61	1	10/08/04 6
PCB-1254	< .61	U	.025	.61	1	10/08/04
PCB-1260	< .61	υ	.040	.61	1	10/08/04

Surrogate	%R	Qual	%R Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	53.		30-150	
Decachlorobiphenyl (surrogate)	64.		30-150	

#### Notes:

6 : Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 11, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 9074 Sample: E7739

SM101-W Sample Description:

HP5890-90 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

10/07/04 Matrix: Solid Collected: Received: 10/07/04

QC Batch: 100704S2

Prepared: 10/07/04

%Solids: 82.0 Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< .61	U	.082	.61	1	10/08/04
PCB-1221	< .61	U	.11	.61	1	10/08/04
PCB-1232	< .61	U	.071	.61	1	10/08/04
PCB-1242	< .61	U	.053	.61	1	10/08/04
PCB-1248	.10	J	.041	.61	1	10/08/04 6
PCB-1254	< .61	U	.025	.61	1	10/08/04
PCB-1260	< .61	U	.040	.61	1	10/08/04

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	49.		30-150	
Decachlorobiphenyl (surrogate)	54.		30 - 150	

Column Name: DB-608, 30m x .53mm ID

#### Notes:

: Altered aroclor. : Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 8, 2004

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Proj. Desc:

Package#: 9074 Sample: E7740

e: E7740

Sample Description: SM101-E Instrument: HP5890-90

Units: mg/Kg Dry weight Number of analytes: 7 Collected:

Prepared:

10/07/04

10/07/04

Matrix: Solid

Received: 10/07/04

QC Batch: 100704S2

%Solids: 86.0 Sample Size: 30 g

Primary: Y

Parameter	Result Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 29. U	3.9 2	9	50	10/08/04
PCB-1221	< 29. U	5.0 2	9	50	10/08/04
PCB-1232	< 29. U	3.4 2	9	50	10/08/04
PCB-1242	< 29. U	2.5 2	9	50	10/08/04
PCB-1248	180. P	2.0 2	9	50	10/08/04 6
PCB-1254	< 29. U	1.2 2	9	50	10/08/04
PCB-1260	< 29. U	1.9 2	9	50	10/08/04

			₹R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	82.		30-150	38
Decachlorobiphenyl (surrogate)	104.		30-150	38

Column Name: DB-1701, 30m x .53mm ID

#### Notes:

6 : Altered aroclor.

38 : Surrogate was diluted
38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 2, 2004

**Analytical Results** Method: 8082

10/07/04

Collected:

Received:

Prepared:

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 9074

Sample: E7740

Sample Description: SM101-E Instrument:

Units: mg/Kg Dry weight

Number of analytes: 7

HP5890-90

Column Name: DB-608, 30m x .53mm ID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/07/04 Matrix: Solid

10/07/04 QC Batch: 100704S2

> %Solids: 86.0 Sample Size: 30 g

Primary: N

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 29.	U	3.9	29	50	10/08/04
PCB-1221	< 29.	Ü	5.0	29	50	10/08/04
PCB-1232	< 29.	Ü	3.4	29	50	10/08/04
PCB-1242	< 29.	บ	2.5	29	50	10/08/04
PCB-1248	120.		2.0	29	50	10/08/04 6
PCB-1254	< 29.	U	1.2	29	50	10/08/04
PCB-1260	< 29.	Ü	1.9	29	50	10/08/04

			%R	
Surrogate	&R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	72.		30-150	38
Decachlorobiphenyl (surrogate)	86.		30-150	38

#### Notes:

: Altered aroclor. : Altered aroclor. : Surrogate was diluted 38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 8, 2004

Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9074 Samole: E7741

Sample Description: SM101-F

Instrument: HP5890-90 Units: mg/Kg Dry weight

Number of analytes: 7

Certification NY No.: 10155

10/07/04 Collected:

Matrix: Solid

Job No.: 3435 . 124 . 62301

Received: 10/07/04 Prepared: 10/07/04

QC Batch: 100704S2

%Solids: 72.0

Sample Size: 30 g

Primary: Y

Parameter	Result	Qual	MDL	PQL	Dil	Analyzed Notes
PCB-1016	< 14.	U	1.9	14	20	10/15/04
PCB-1221	< 14.	U	2.4	14	20	10/15/04
PCB-1232	< 14.	U	1.6	14	20	10/15/04
PCB-1242	< 14.	U	1.2	14	20	10/15/04
PCB-1248	73.		.94	14	20	10/15/04 6
PCB-1254	< 14.	U	.56	14	20	10/15/04
PCB-1260	< 14.	U	.92	14	20	10/15/04

			%R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	59.		30-150	38
Decachlorobiphenyl (surrogate)	64.		30-150	38

Column Name: DB-608, 30m x .53mm ID

#### Notes:

6 : Altered aroclor.

: Surrogate was diluted 38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 2, 2004

Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

GM - Former Landfill Project:

Proj. Desc:

Package#: 9074 Sample: E7741

Sample Description: SM101-F

HP5890-90 Instrument: Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected:

10/07/04

Matrix: Solid

Received:

10/07/04

QC Batch: 100704S2

Prepared: 10/07/04 %Solids: 72.0 Sample Size: 30 g

Primary: Y

Parameter	Result Qua	l MDL	PQL Dil	Analyzed Notes
PCB-1016	< 14. U	1.9 14	20	10/15/04
PCB-1221	< 14. U	2.4 14	20	10/15/04
PCB-1232	< 14. U	1.6 14	20	10/15/04
PCB-1242	< 14. U	1.2 14	20	10/15/04
PCB-1248	73.	.94 14	20	10/15/04 6
PCB-1254	< 14. U	.56 14	20	10/15/04
PCB-1260	< 14. U	.92 14	20	10/15/04

			₹R	
Surrogate	%R	Qual	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	59.	•	30-150	38
Decachlorobiphenyl (surrogate)	64.		30-150	38

Column Name: DB-608, 30m x .53mm ID

#### Notes:

6 : Altered aroclor. : Altered aroclor.

: Surrogate was diluted 38 : Surrogate was diluted 38

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 8, 2004

**Analytical Results** 

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former Landfill

Proj. Desc: Package#:

9108

Sample: E 7926

Sample Description: SM101-F2 Instrument: HP5890-89 Units:

Number of analytes: 7

mg/Kg Dry weight

Column Name: RTXCLP2, 30m x .53mmID

Method: 8082

Collected:

Received:

Prepared:

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

10/12/04 Matrix: Solid 10/12/04 10/12/04

QC Batch: 101204S4 %Solids: 74.0

PCB-1232 < .68 U .091 .68 Dil Analyzad	0 30 g	
PCB-1242	<del></del>	87

Surrogate	1	1	0
Decachlorobiphenyl (surrogate)  Notes:  *R  Qual &R  Limits	N	otes	
6 : Altered aroclor. 30-150			

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J-Reported value is estimated. D-Result is diluted.

E - Concentration exceeded the calibration range and is estimated. P - RPD>40% between primary and confirmation.

Authorized:

Date: October 13, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc. Project:

GM - Former Landfill

Proj. Desc:

Package#: 9108 Sample: E 7926

Sample Description: SM101-F2 Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/12/04 Received: 10/12/04

Matrix: Solid QC Batch: 101204S4

Prepared: 10/12/04 %Solids: 74.0

PCB-1016 Result Qual MDL POT	Number of analytes: 7  Parameter	Column Name: RTXCLP, 30	0m x .53mmID	10/12/04	%Solids: 74.0 Sample Size: 30 g Primary: N
	PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254	< .68 < .68 < .68 < .68	U .091 U .12 U .079 U .058 J .046 U .027	.68 .68 .68 .68 .68	1 10/13/04 1 10/13/04 1 10/13/04 1 10/13/04 1 10/13/04 1 10/13/04 6

Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)  Decachlorobiphenyl (surrogate)	%R 72. 83.	Qual	%R Limits 30-150	Notes
Notes:	83.		30-150	

: Altered aroclor. : Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank. # - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 2, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former Landfill

Proj. Desc:

Package#: 9108 Sample:

E 7927 Sample Description: SM101-E2

Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: RTXCLP2, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected: 10/12/04 Received: 10/12/04

10/12/04

Prepared:

Matrix: Solid QC Batch: 101204S4

%Solids: 80.0

Sample Size: 30 g

Parameter		Primary: Y
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	Result Qual MDL PQL  < .62 U .084 .62  < .62 U .11 .62  < .62 U .073 .62  < .62 U .054 .62  2.1 .042 .62  < .62 U .025 .62  < .62 U .041 .62	Dil Analyzed Notes  1 10/13/04 1 10/13/04 1 10/13/04 1 10/13/04 1 10/13/04 1 10/13/04 1 10/13/04 1 10/13/04

2,4,5,6-Tetrachloro-m-Xylene (surrogate) 97. Decachlorobiphenyl (surrogate) 108. Notes:	Qual Limits Notes 30-150 30-150
---	---------------------------------

: Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 13, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc. Project:

GM - Former Landfill

Proj. Desc:

Package#: 9108 Samole: E7927

Sample Description: SM101-E2 Instrument:

HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 10/12/04

Received: 10/12/04 Prepared: 10/12/04 Matrix: Solid QC Batch: 101204S4

%Solids: 80.0

Sample Size: 30 g

Primary: N

Parameter		Primary: N
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	< .62 U .11 .6	1 10/13/04 1 10/13/04 6 1 10/13/04

Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)  Decachlorobiphenyl (surrogate)	%R 93.	Qual	%R Limits 30-150	Notes
Notes:	108.		30-150	

Column Name: RTXCLP, 30m x .53mmID

: Altered aroclor. 6 : Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 2, 2004

**Analytical Results** Method: 8082

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9108 Sample: E7928

Sample Description: 6+10 BANK-F2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: RTXCLP2, 30m x .53mmID

Collected:

10/12/04

Matrix: Solid

Received: 10/12/04 Prepared: 10/12/04

QC Batch: 101204S4

%Solids: 88.0 Sample Size: 30 g

Primary: Y

Parameter				
PCB~1016	Result Qua	l MDL	_PQL Dil	3ma 1
PCB-1221	< 11. U	1.5 11	20	Analyzed Notes
PCB-1232	< 11. U	2.0 11	20	10/13/04
PCB-1242	< 11. U	1.3		10/13/04
PCB-1248	< 11. U	.98 11	20	10/13/04
PCB-1254	67.	.77 11	20	10/13/04
PCB-1260	< 11. U	.46 11	20	10/13/04 6
·	< 11. U	.75 11	. 20	10/13/04
		11	20	10/13/04

Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	<b>%R</b> 90. 105.	Qual	%R Limits 30-150 30-150	Notes 38
No.			20-130	38

#### Notes:

: Altered aroclor.

: Surrogate was diluted 38

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level. J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 13, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9108 Sample: E7928

Sample Description: 6+10 BANK-F2

Instrument: HP5890-89 Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected:

10/12/04

Matrix: Solid

Received: 10/12/04 Prepared: 10/12/04

QC Batch: 101204S4

Number of analytes: 7  Parameter	Column Name:	RTXCLP, 3	30m x .531	mmID	•		%Solids: 88.0 Sample Size: 3 Primary: N	
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260		Resul < 11. < 11. < 11. < 11. < 11. < 11. < 11. < 11. < 11.	t Qua) U U U U U U U U	1.5 2.0 1.3 .98 .77 .46	11 11 11 11 11	2L Dil 20 20 20 20 20 20 20 20	Analyzed N 10/13/04 10/13/04 10/13/04 10/13/04 10/13/04 10/13/04	<b>Votes</b>
					11	20	10/13/04	

Surrogate	_	0.5	
2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	<b>%R Qua</b> 85.		Notes
Notes:	106.	30 - 150 30 - 150	38 38

: Altered aroclor. 6 : Altered aroclor.

: Surrogate was diluted 38 : Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 2, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former Landfill

Proj. Desc:

Package#: 9108 Sample: E 7929

Sample Description: 6+10 BANK-W2 Instrument: HP5890-89

Units: mg/Kg Dry weight Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 10/12/04

Received: 10/12/04 Prepared: 10/12/04

Matrix: Solid QC Batch: 101204S4

Parameter	Column Name: RTXCL	P2, 30m x .53mmID	richated.		%Solids: 82.0 Sample Size: Primary: Y	)
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	Res < .6 < .6 < .6 < .6 < .6 < .6 < .6 < .6	0 .082 51 U .11 51 U .071 1 U .053 0 .041 1 U .025	.61 .61 .61 .61 .61 .61 .61	2L Dil 1 1 1 1 1 1 1 1 1	Analyzed: 10/13/04 10/13/04 10/13/04 10/13/04 10/13/04 10/13/04 10/13/04	

Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)  Decachlorobiphenyl (surrogate)	₹R Qu 76. 89.	R Limits Notes
Notes:	09.	30~150
6 · λ1+ ·		20-120

6 : Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 13, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former Landfill

Proj. Desc:

Package#: 9108

Sample: E 7929 Sample Description:

6+10 BANK-W2 Instrument: HP5890-89

Units:

mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 10/12/04

Received: 10/12/04 Prepared: 10/12/04

Matrix: Solid QC Batch: 101204S4

Parameter PCB-1016	Column Name: RTXCLP, 30m x .53mmID	%Solids: 82.0 Sample Size: 30 g Primary: N
PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	< .61 U .61	il Analyzed Notes 1 10/13/04 1 10/13/04 1 10/13/04 1 10/13/04 1 10/13/04 1 10/13/04 1 10/13/04

Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)  Decachlorobiphenyl (surrogate)	%R Qual	%R Limits Notes
Notes:	90.	30-150
6 : Altered and		30-150

: Altered aroclor. : Altered aroclor.

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: November 2, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc. Project: Proj. Desc:

GM - Former Landfill

Package#: 9108 Sample: E 7930

Sample Description: 6+10 BANK-S2 Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 10/12/04

Matrix: Solid Received: 10/12/04 QC Batch: 101204S4 Prepared: 10/12/04 %Solids: 77.0

Parameter PCB-1016	-, 30th x .33mmID	%Solids: 77.0 Sample Size: 30 g Primary: Y
PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	Result         Qual         MDL         PQL         Dil           < .65	Analyzed Notes 10/13/04 10/13/04 10/13/04 10/13/04 10/13/04 10/13/04 10/13/04

B - Analyte detected above the PQL in the associated Prep Blank. # - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 13, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc.

Project: GM - Former Landfill

Proj. Desc:

Package#: 9124 Sample: E8017

Sample Description: 6+10 BANK-F3

Instrument: HP5890-89 Units:

mg/Kg Dry weight Number of analytes: 7

Column Name: RTXCLP2, 30m x .53mmID

Job No.: 3435 . 124 . 62301

Certification NY No.: 10155

Collected:

10/14/04 Matrix: Solid Received: 10/14/04 QC Batch: 101504S1 Prepared: 10/15/04

%Solids: 74.0 Sample Size: 30 g

Parameter		Primary: Y
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	Result     Qual     MDL     PQL       < .68     U     .091     .68       < .68     U     .12     .68       < .68     U     .079     .68       < .68     U     .058     .68       < .68     U     .046     .68       < .68     U     .027     .68       < .68     U     .045     .68	Dil Analyzed Notes  1 10/22/04 1 10/22/04 1 10/22/04 1 10/22/04 1 10/22/04 1 10/22/04 1 10/22/04 1 10/22/04

Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)  Decachlorobiphenyl (surrogate)  Notes:	%R 71. 86.	Qua1	%R Limits 30-150 30-150	Notes
noces;			130	

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 22, 2004

**Analytical Results** Method: 8082

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former Landfill

Proj. Desc:

Package#: 9124

Sample: E8018 Sample Description:

6+10 BANK-S3 Instrument: HP5890-89

Units: mg/Kg Dry weight

Number of analytes: 7

Column Name: RTXCLP2, 30m x .53mmID

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 10/14/04

Received: 10/14/04 Prepared: 10/15/04

Matrix: Solid QC Batch: 101504S1

%Solids: 98.0

Sample Size: 30 g

Primary: Y

Parameter		Primary: Y
PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	Result         Qual         MDL         PQL           < .51         U         .069         .51           < .51         U         .088         .51           < .51         U         .059         .51           < .51         U         .044         .51           < .51         U         .035         .51           < .51         U         .021         .51           < .51         U         .034         .51	Dil Analyzed Notes  1 10/22/04  1 10/22/04  1 10/22/04  1 10/22/04  1 10/22/04  1 10/22/04  1 10/22/04  1 10/22/04

Notes:    Stationary   Stationa	Surrogate  2,4,5,6-Tetrachloro-m-Xylene (surrogate)  Decachlorobiphenyl (surrogate)  Notes:		30-150 Notes
--	---	--	--------------

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J - Reported value is estimated. D - Result is diluted.

E - Concentration exceeded the calibration range and is estimated.

P - RPD>40% between primary and confirmation.

Authorized:

Date: October 22, 2004

# Analytical Results Method: 8082

Client: O'Brien & Gere Engineers, Inc. Project: GM - Former Landfill

Proj. Desc:

Package#: 9326 Sample: E9249

Sample Description: TB-02-03A (10'-16') Instrument: HP5890-90

Units: mg/Kg Dry weight

Number of analytes: 7

Job No.: 3435 . 124 . 62301 Certification NY No.: 10155

Collected: 11/10/04

Received: 11/10/04 Prepared: 11/15/04

Matrix: Solid QC Batch: 111504S2

Parameter PCB-1016	Column Name: DB-608, 3	0m x .53mm ID	Prepared: 11/1	•	%Solids: 68.0 Sample Size: 30 g Primary: Y
PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	Resul < 74. < 74. < 74. < 74. < 74. l20. < 74. < 74. < 74.	U 9.9 U 13. U 8.6 U 6.4 5.0 U 3.0 U 4.9	74 74 74 74 74 74 74 74	Dil 100 100 100 100 100 100	Analyzed Notes  11/16/04  11/16/04  11/16/04  11/16/04  11/16/04  11/16/04

Surrogate 2,4,5,6-Tetrachlor			
2,4,5,6-Tetrachloro-m-Xylene (surrogate) Decachlorobiphenyl (surrogate)	%R 79.	Qual %R Limits	Notes
Notes:	90.	30-150 30-150	38
38 Surrogate was all		100	38

Surrogate was diluted 38 Surrogate was diluted

B - Analyte detected above the PQL in the associated Prep Blank.

# - Outside control limits. U - Undetected at the reported level.

J-Reported value is estimated. D-Result is diluted.

E - Concentration exceeded the calibration range and is estimated. P - RPD>40% between primary and confirmation.

Authorized: Date: November 23, 2004 Thomas Alexander

# FORMER IFG FACILITY SYRACUSE, NEW YORK

# FORMER LANDFILL IRM PROJECT

GENERAL MOTORS CORP. **SYRACUSE, NEW YORK** 



#### **RECORD DRAWINGS**

To the best of our knowledge, information and belief, based on information provided by others, these record drawings substantially represent the project as constructed. O'BRIEN & GERE

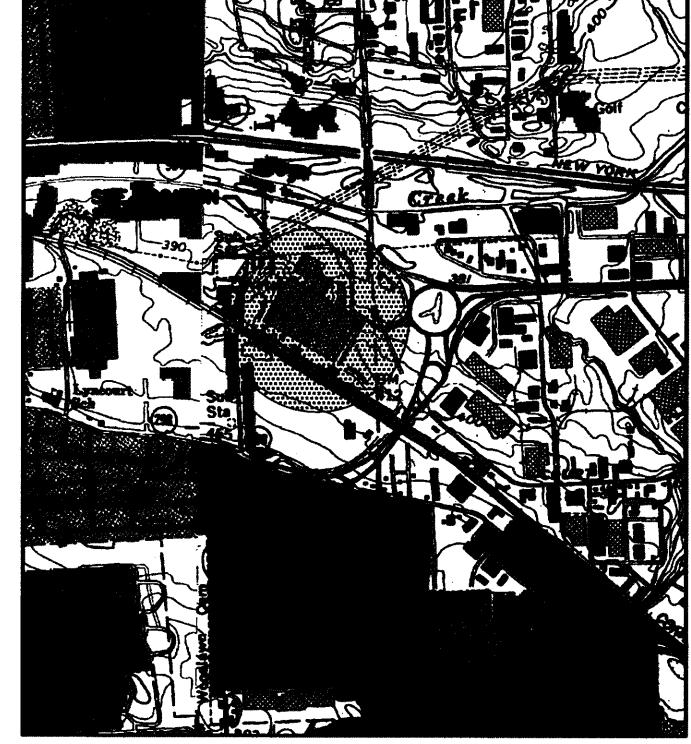
ENGINEERS, INC. By: Edwin Brahm

# INDEX TO DRAWINGS

TITLE SHEET PRE-CONSTRUCTION SITE PLAN SUBGRADE GRADING PLAN FINAL HOT SPOTS & SOIL EXCAVATIONS GEOMEMBRANE PLAN FINAL GRADING PLAN FINAL COVER PLAN MISCELLANEOUS DETAILS

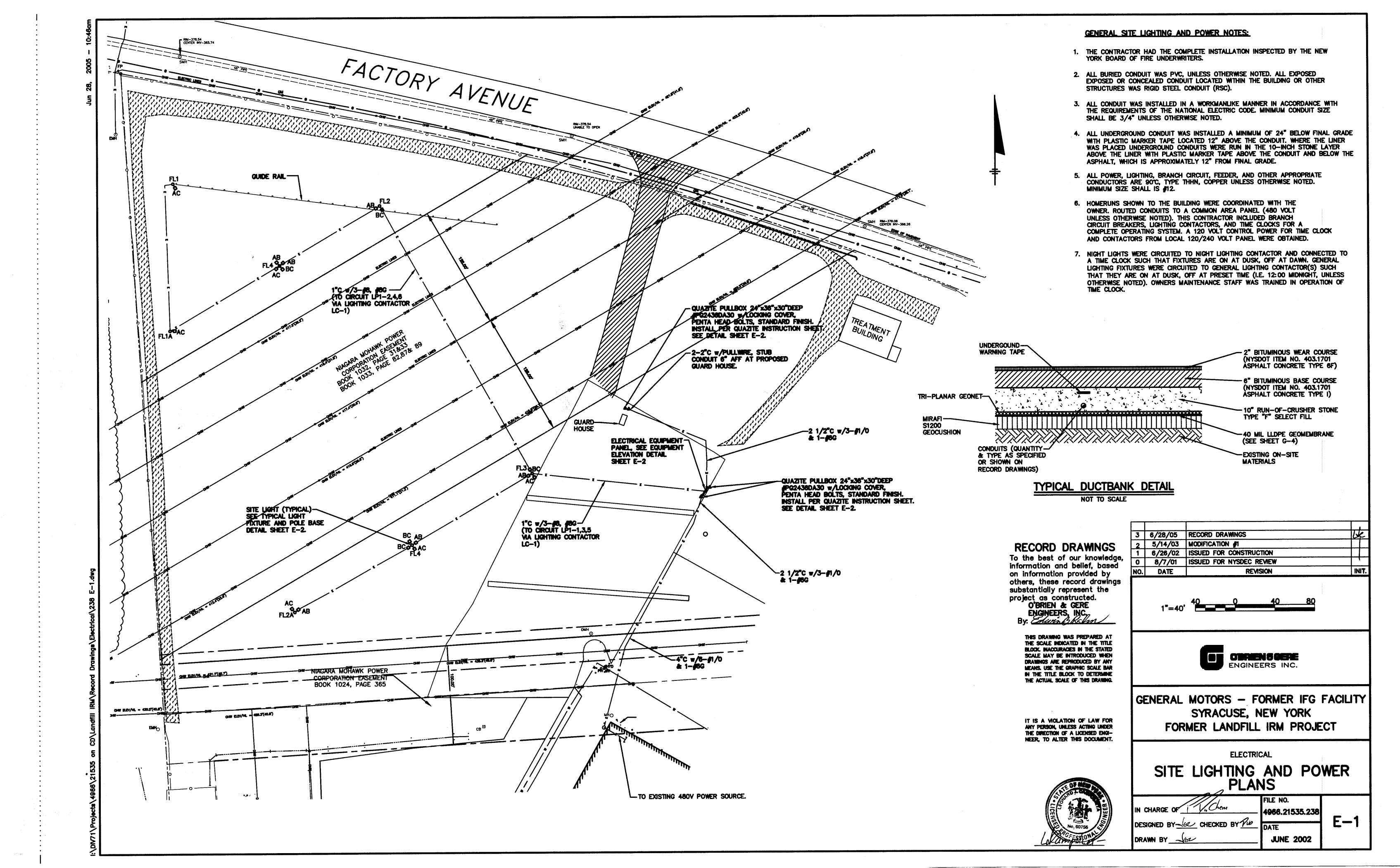
MISCELLANEOUS DETAILS MISCELLANEOUS DETAILS

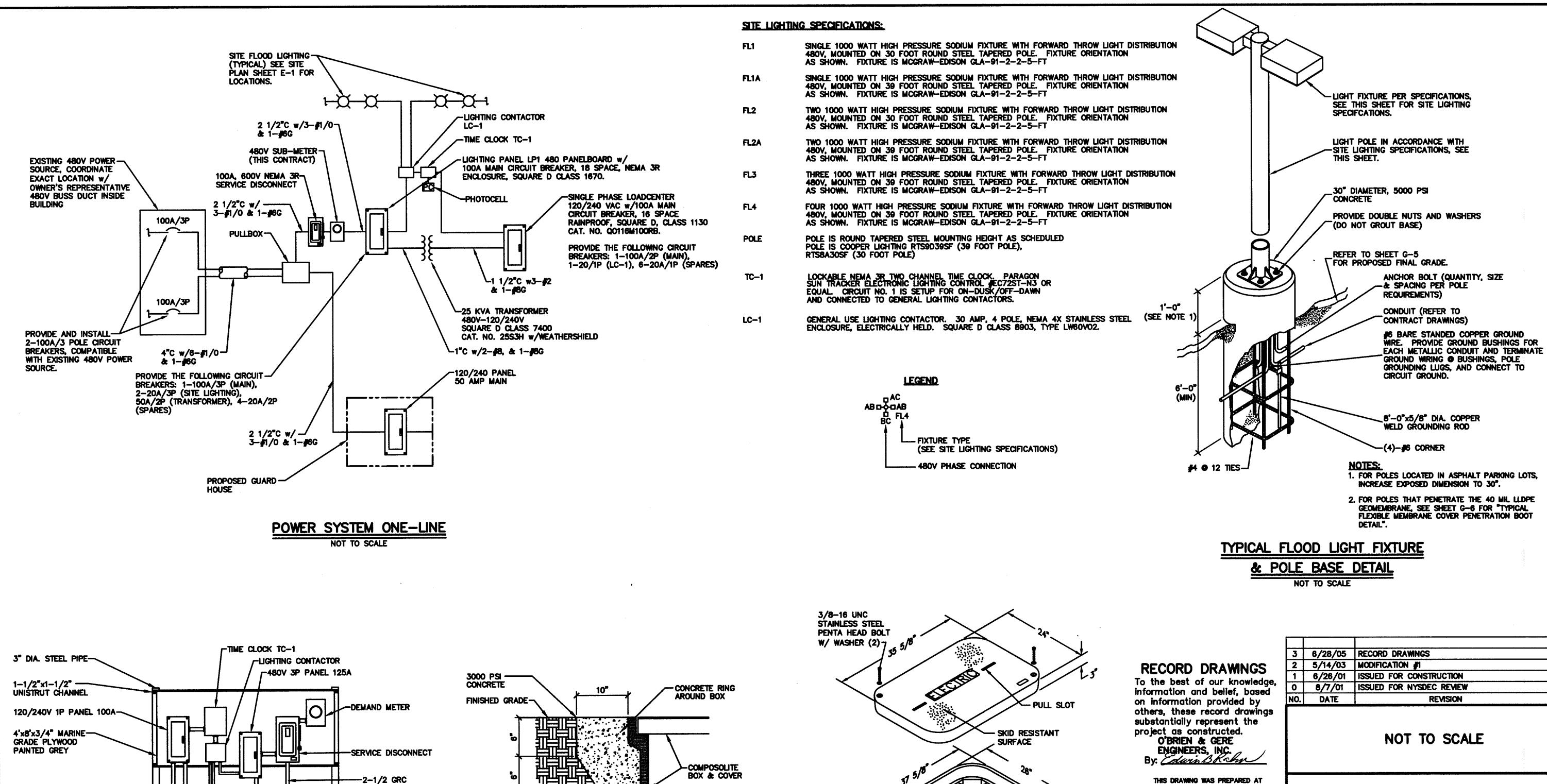
CONDUIT LAYOUT MISCELLANEOUS DETAILS

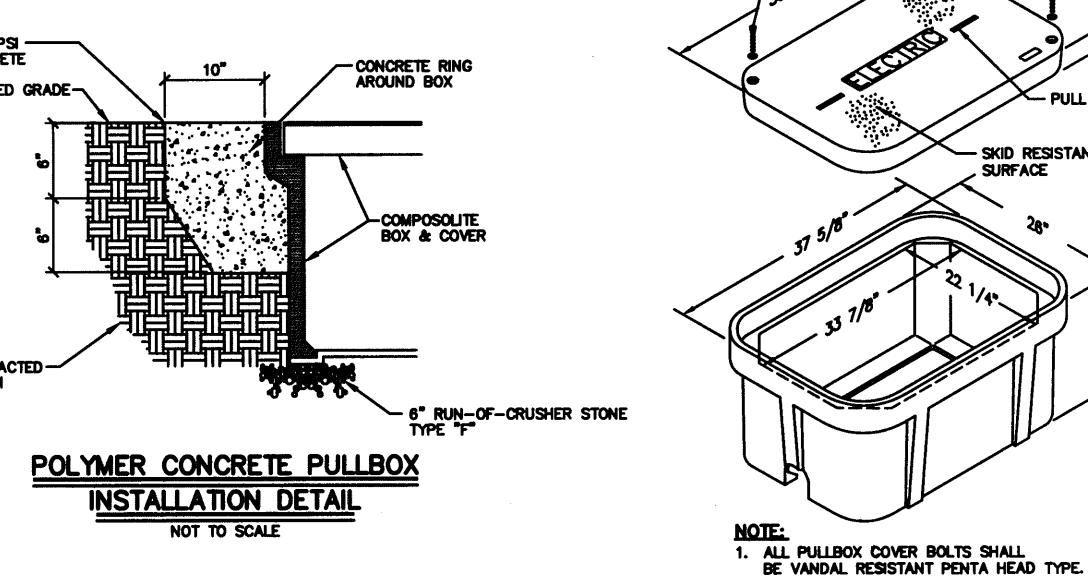


OBRIEN 5 GERE ENGINEERS, INC.

**JUNE 2005** 







**\\_3\_#8** 

ELECTRICAL EQUIPMENT ELEVATION

NOT TO SCALE

TRANSFORMER-

FOUNDATION WITH

4000 PSI CONCRETE THE SCALE INDICATED IN THE TITLE

BLOCK. MACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE CRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

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GENERAL MOTORS - FORMER IFG FACILITY SYRACUSE, NEW YORK FORMER LANDFILL IRM PROJECT

ELECTRICAL



REVISION

ODRIEN 5 OERE

ENGINEERS INC.

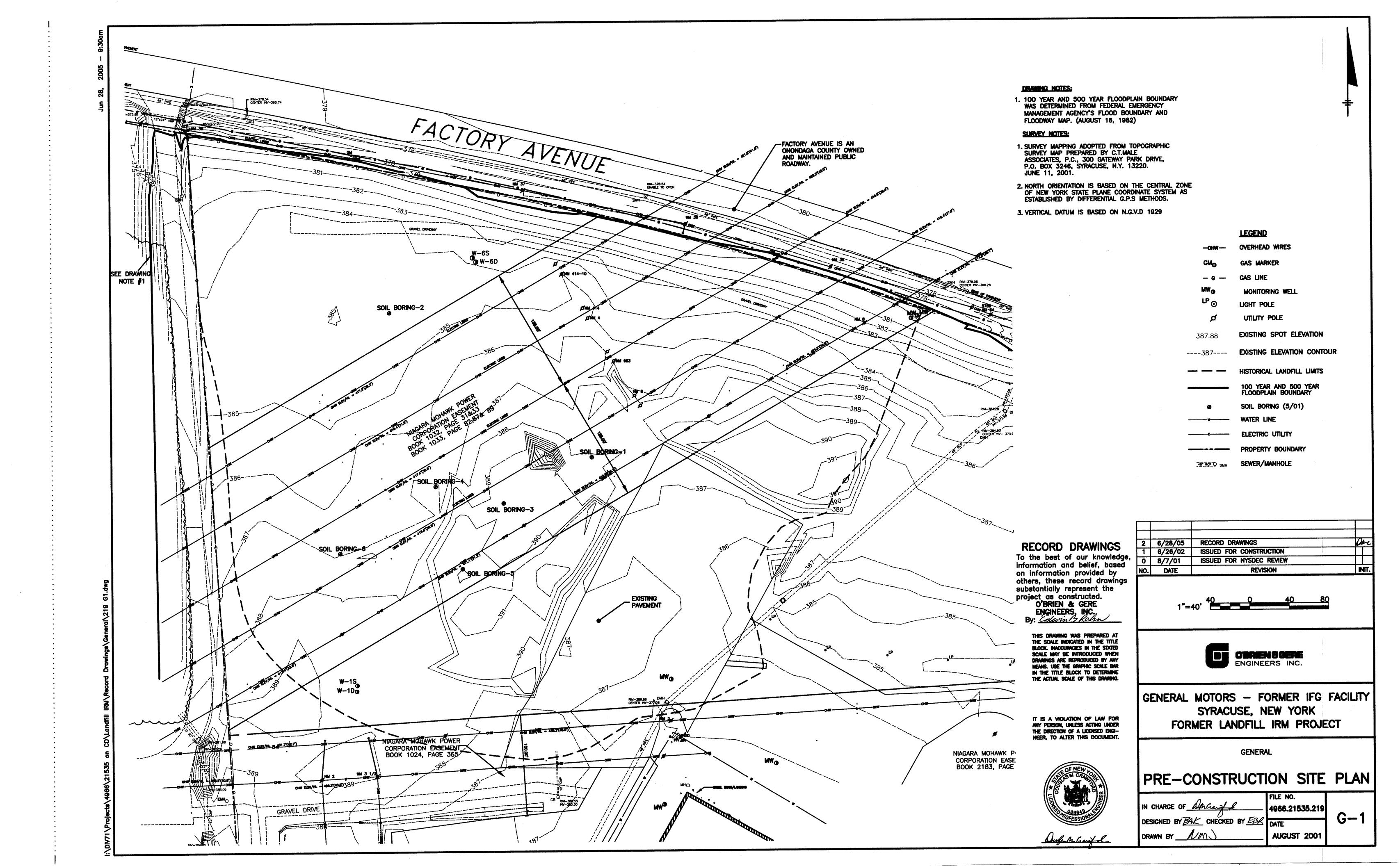
N CHARGE OF 1/1/Chen DESIGNED BY JULY CHECKED BY 100 DRAWN BY \_\_\_\_\_

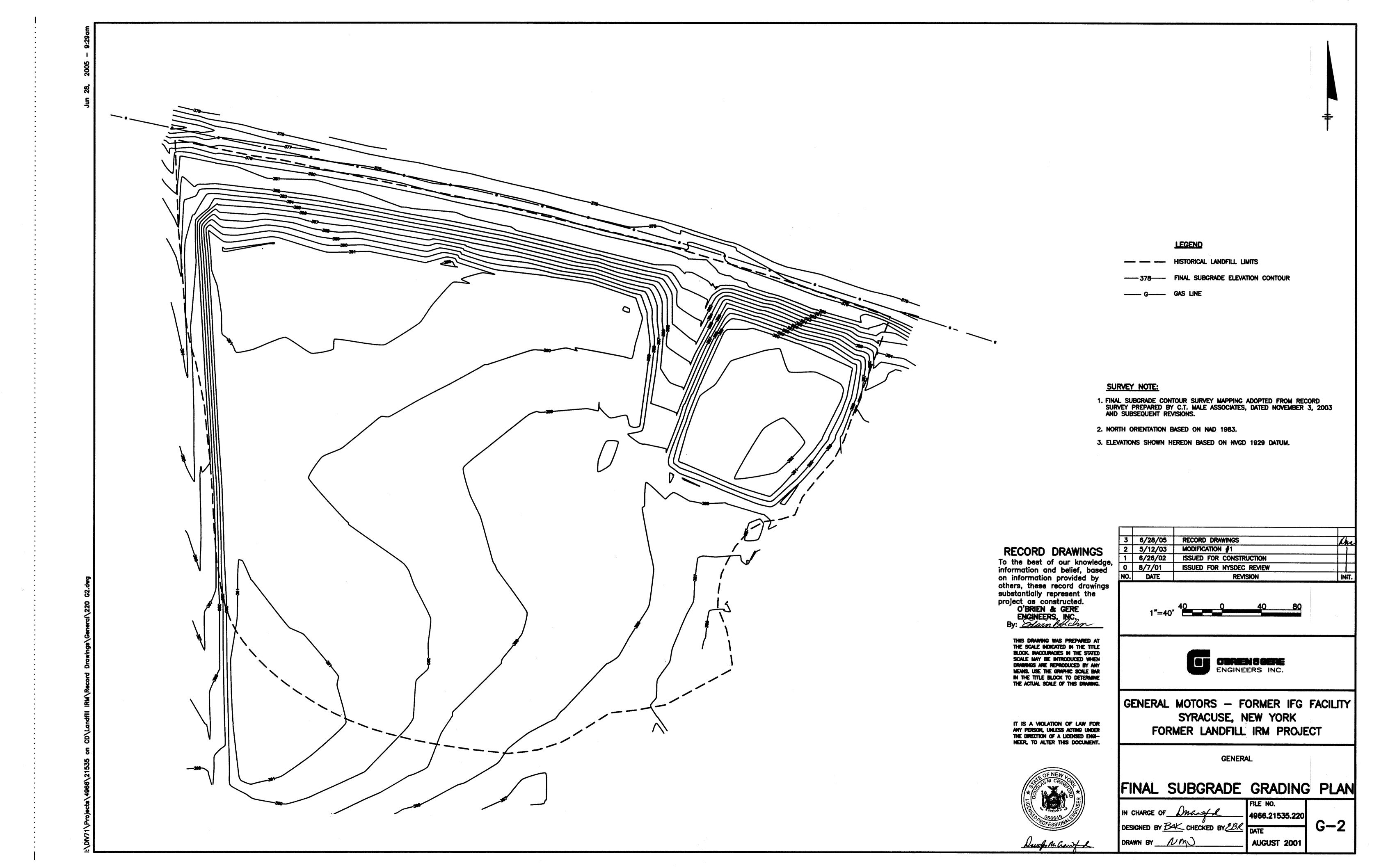
4966.21535.24 E-2 **JUNE 2002** 

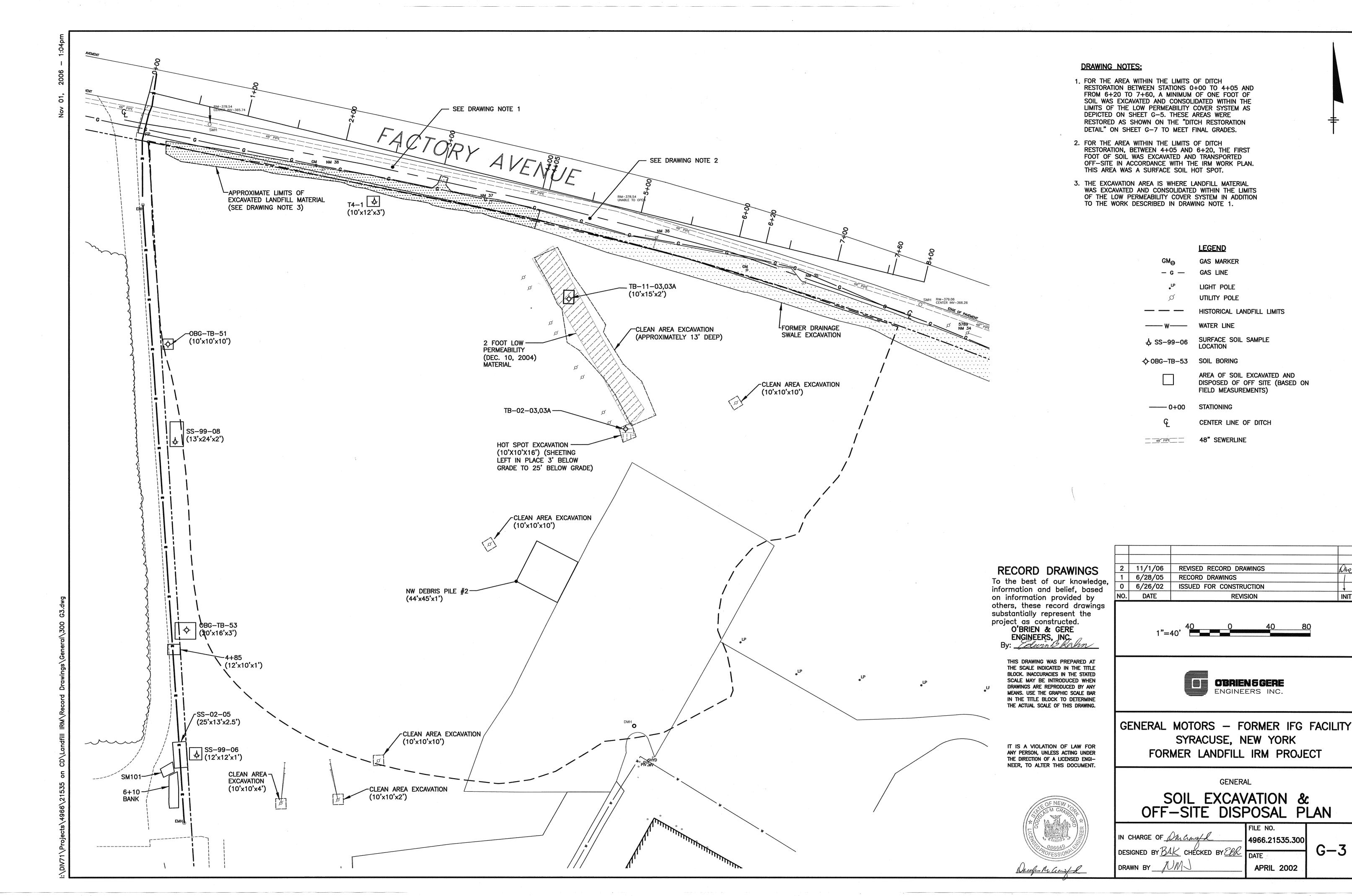
INIT.

PULLBOX DETAIL

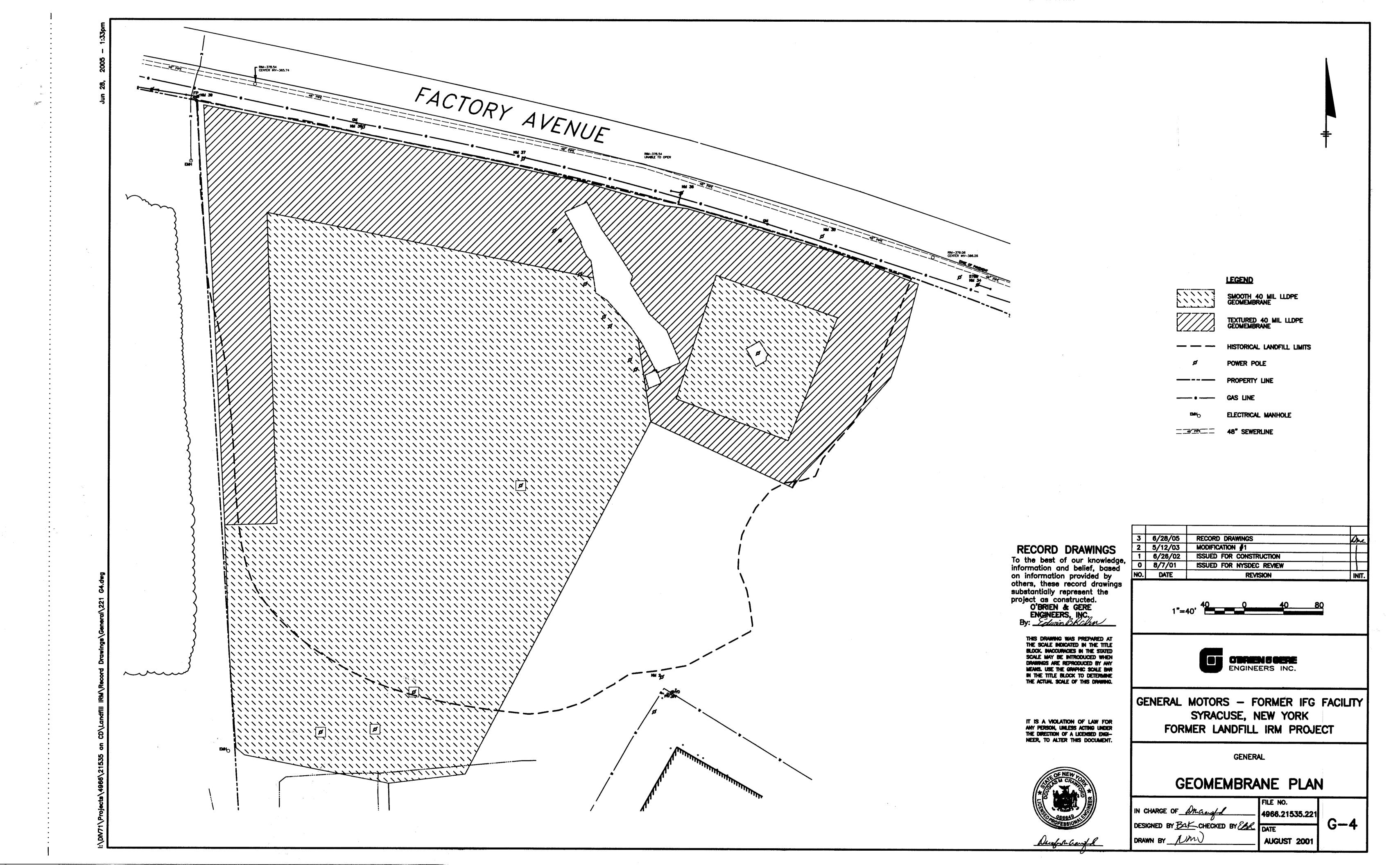
POWER PULLBOX (POLYMER CONCRETE)
POLYMER CONCRETE PULLBOXES SHALL INCLUDE BOTTOM BASE AND
SHALL BE STRONGWELL/QUAZITE TYPE PG2436DA30

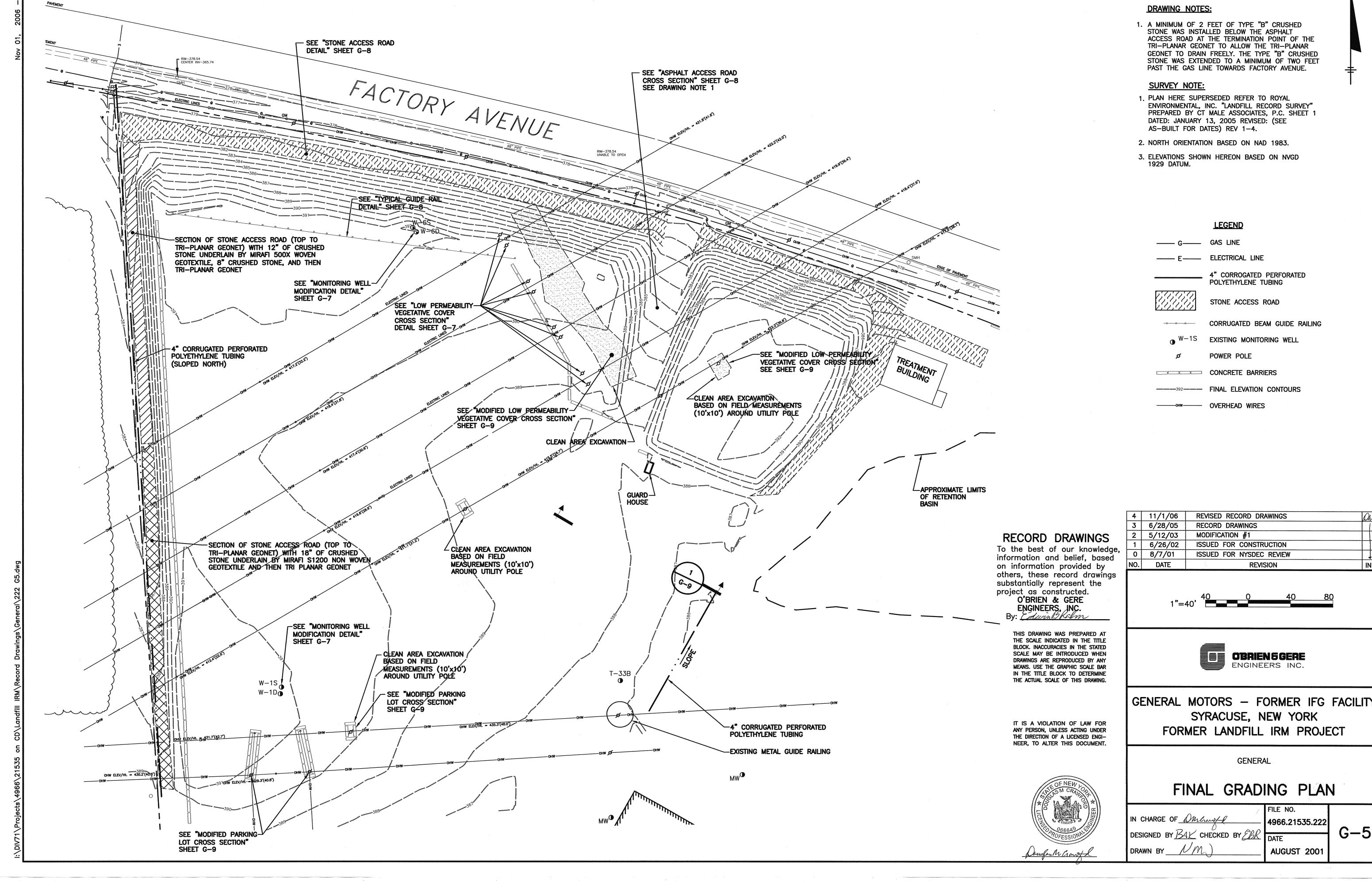




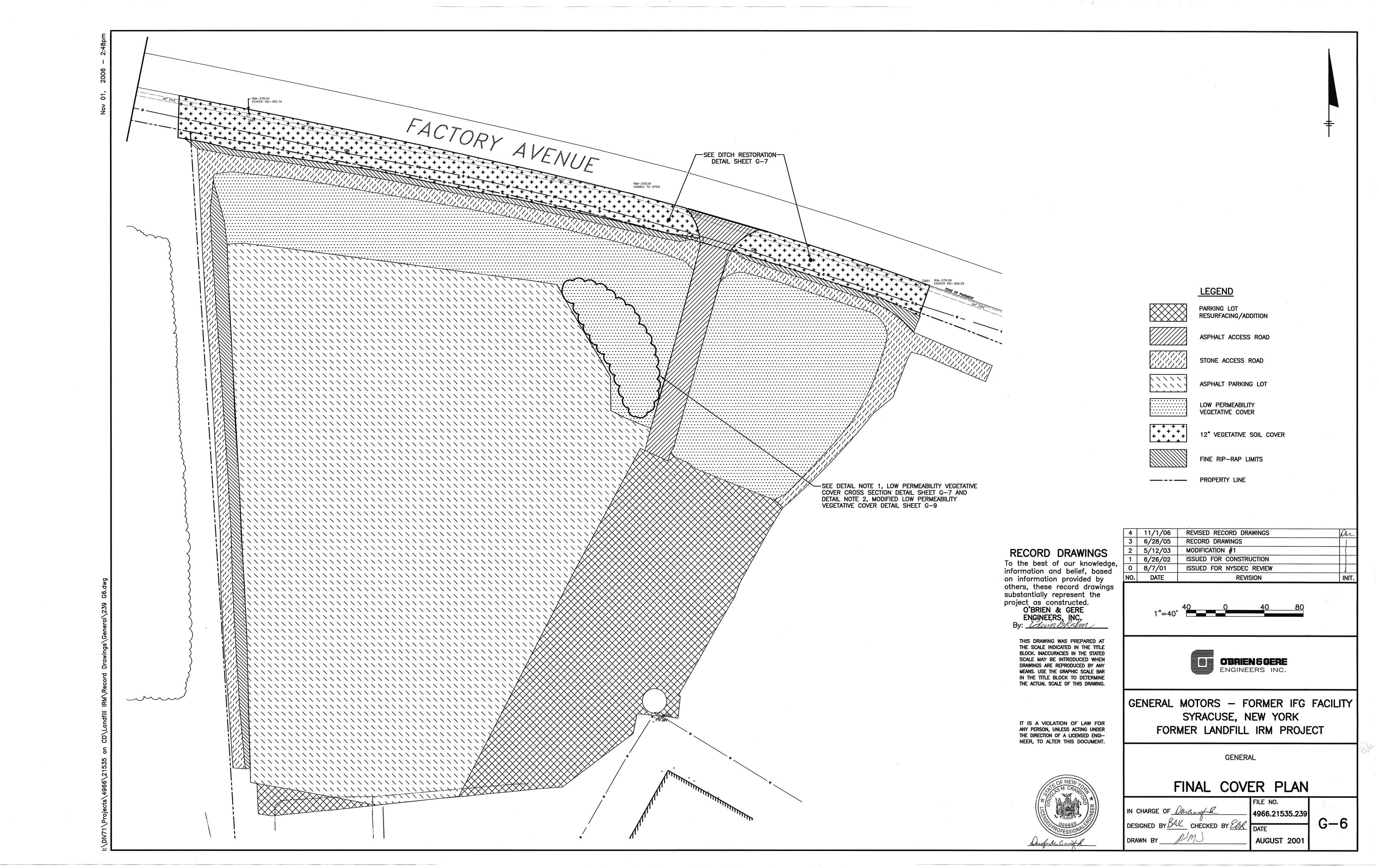


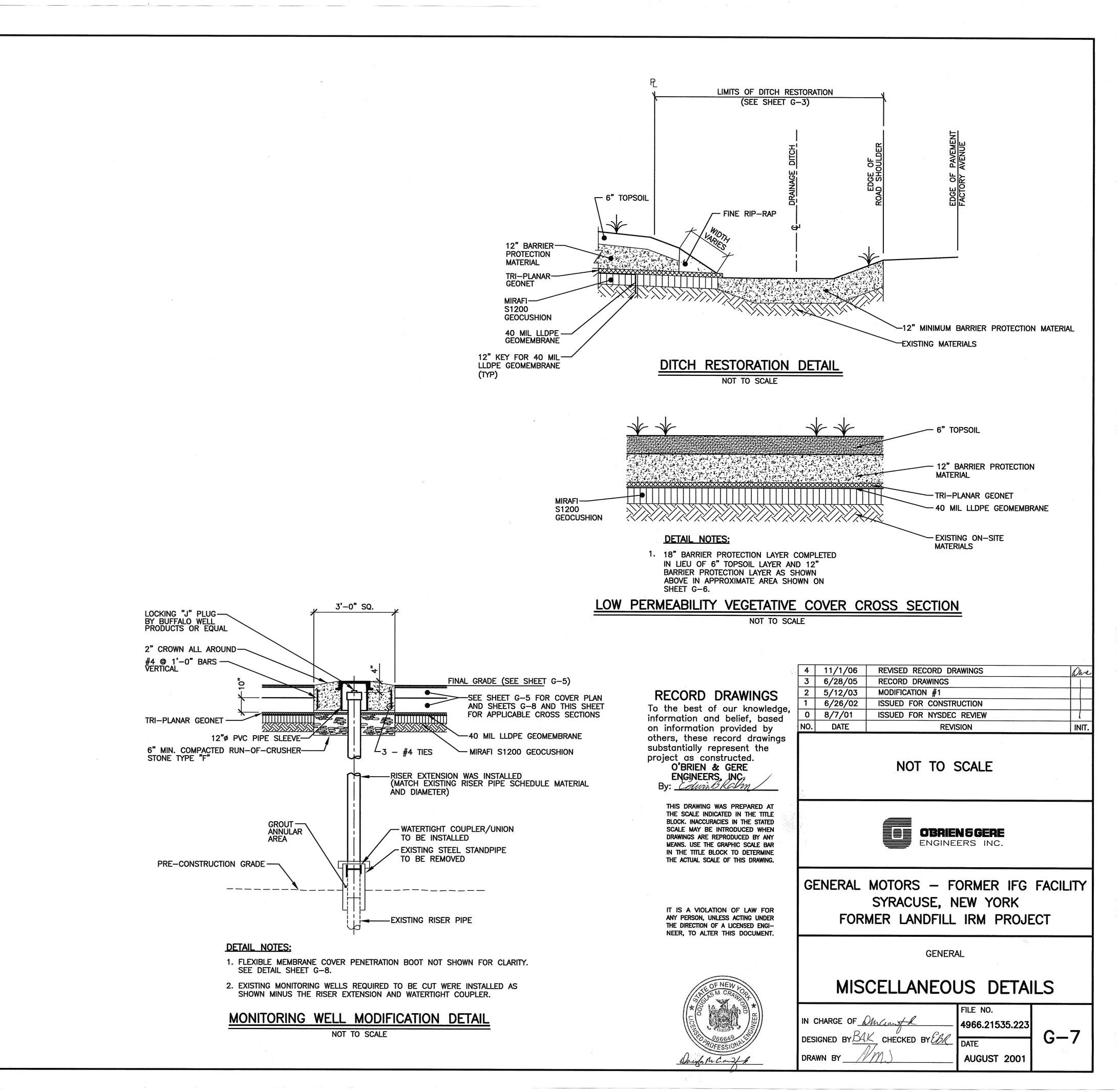
G-3



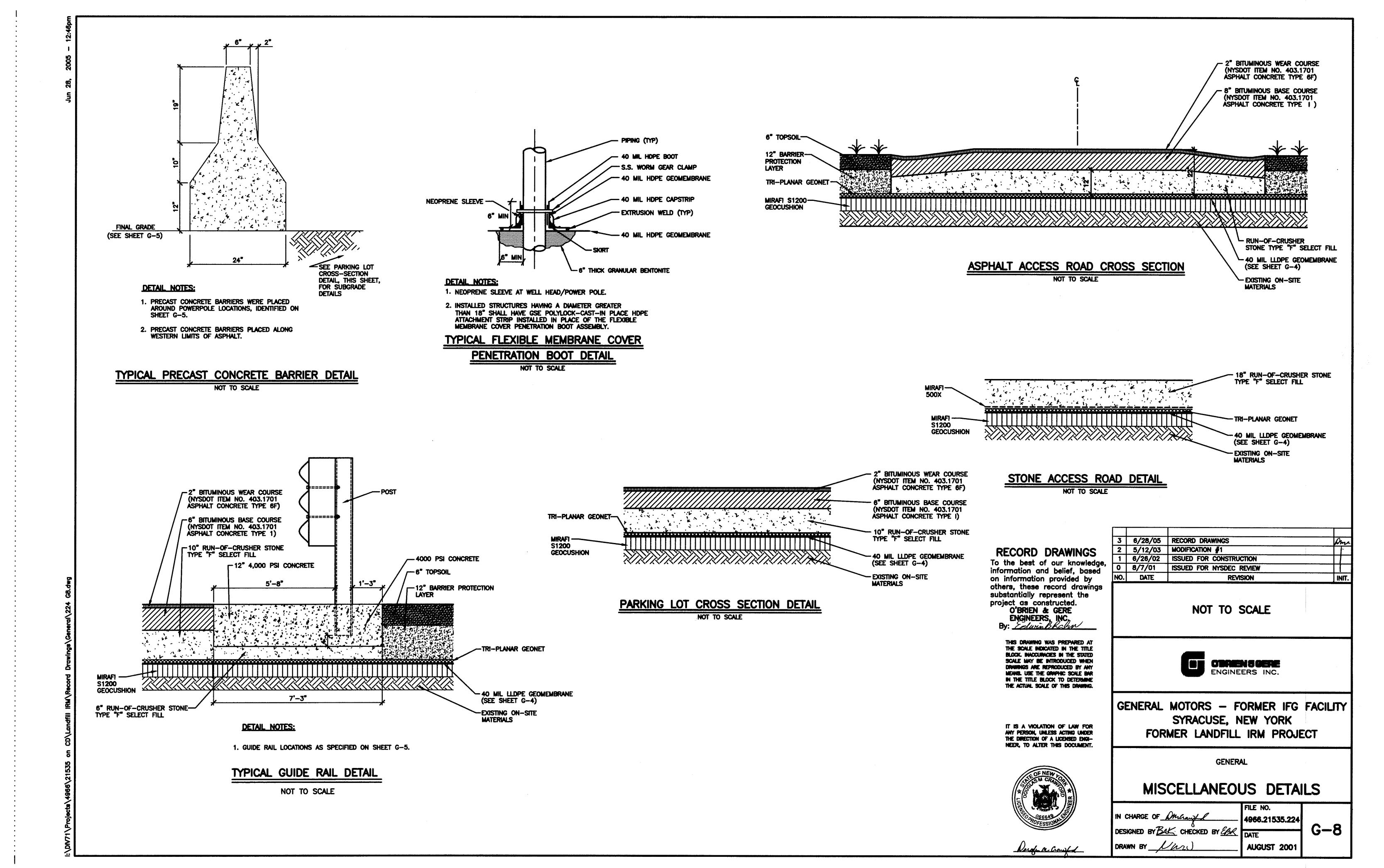


GENERAL MOTORS - FORMER IFG FACILITY





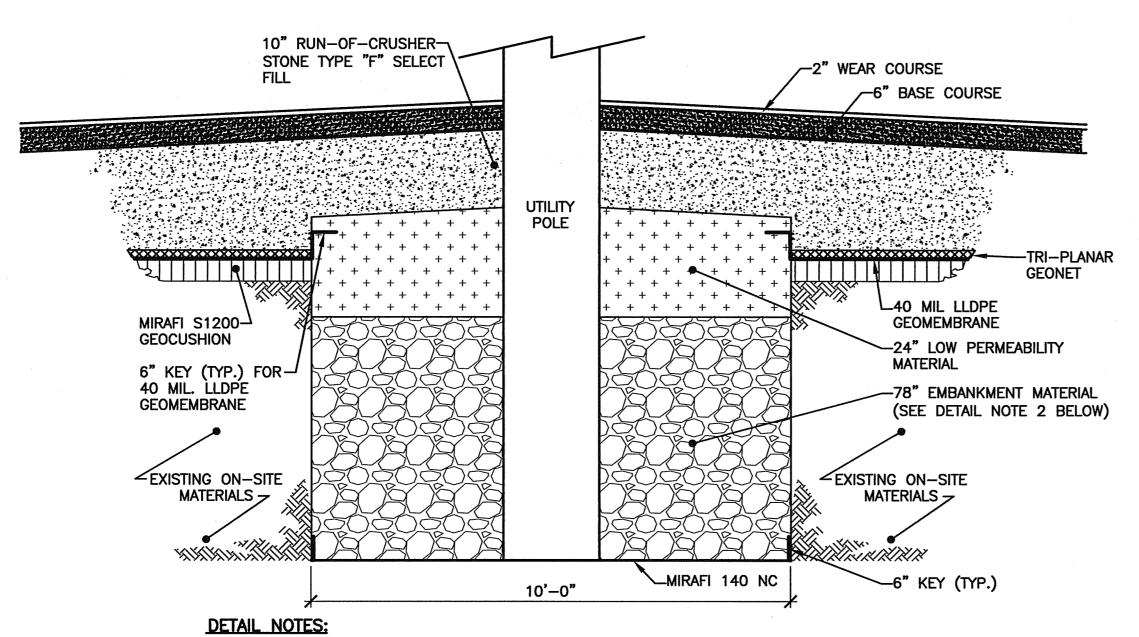
cts/4966\21535 on CD\Landfill IRM\Record Drawings\General\223 (



#### 1. MODIFIED LOW PERMEABILITY VEGETATIVE CROSS SECTION WAS INSTALLED IN A MINIMUM 10' x 10' AREA CENTERED AROUND THE POLE LOCATION.

- 2. TOPSOIL LAYER NOT INSTALLED IN APPROXIMATE AREA SHOWN ON SHEET G-6.
- MODIFIED LOW PERMEABILITY VEGETATIVE COVER CROSS SECTION

NOT TO SCALE

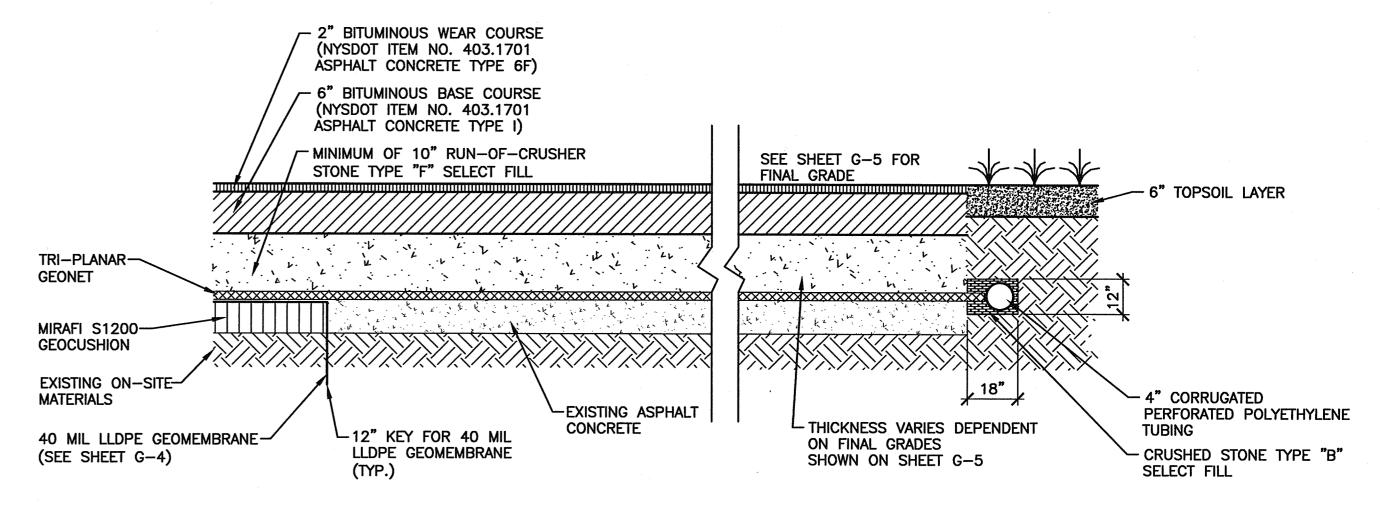


#### 1. MODIFIED LOW PERMEABILITY VEGETATIVE CROSS SECTION WAS INSTALLED IN A MINIMUM 10' x 10' AREA CENTERED AROUND THE POLE LOCATION.

2. THICKNESS OF EMBANKMENT MATERIAL VARIES. SEE SHEET G-3 FOR EXCAVATION DEPTH. ALL OTHER MATERIAL THICKNESSES AS SHOWN FROM TOP DOWN TO EMBANKMENT MATERIAL.

#### MODIFIED PARKING LOT CROSS SECTION

NOT TO SCALE



#### **DETAIL NOTES:**

1. THE CONTRACTOR DAYLIGHTED THE 4" CORRUGATED PERFORATED POLYETHYLENE TUBING ON THE SIDE SLOPE OF THE PROPOSED RETENTION BASIN.



# ASPHALT/ASPHALT COVER SECTION

#### **RECORD DRAWINGS**

To the best of our knowledge, information and belief, based on information provided by others, these record drawings substantially represent the project as constructed.

O'BRIEN & GERE ENGINEERS, INC. By: Edwint Rahm

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ENGI-NEER, TO ALTER THIS DOCUMENT.

4	11/1/06	REVISED RECORD DRAWINGS	One.
3	6/28/05	RECORD DRAWINGS	
2	5/12/03	MODIFICATION #1	
1	6/26/02	ISSUED FOR CONSTRUCTION	
0	8/7/01	ISSUED FOR NYSDEC REVIEW	1
NO.	DATE	REVISION	INIT.

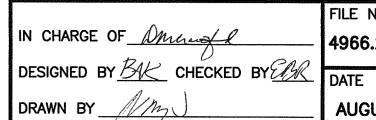
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GENERAL MOTORS - FORMER IFG FACILITY SYRACUSE, NEW YORK FORMER LANDFILL IRM PROJECT

GENERAL





FILE NO. 4966.21535.246 AUGUST 2001

**Geotechnical borings** 

#### TEST BORINGS

#### FORMER GM FISHER GUIDE FACILITY

SYRACUSE, NEW YORK



June 1, 2001

Mr. David Farber O'Brien & Gere Engineers, Inc. 5000 Brittonfield Parkway P.O. Box 4873 Syracuse, New York 13221

Re: 01165
Test Borings
Former GM Fisher Guide Facility
Syracuse, New York
P.O. #10110312E

Dear Mr. Farber:

Enclosed are the logs of six test borings made for you for the above project.

Soil samples from these borings were retained by your representative at the job site.

The borings were made at points located by you. Drilling and sampling were done in accordance with your instructions.

Thank you for this opportunity to work with you.

Very truly yours,

PARRATT - WOLFF, INC.

Will Mon

William Morrow

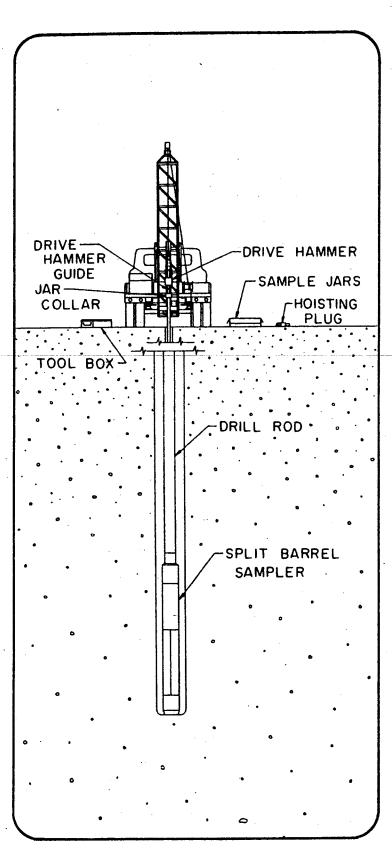
WHM/blo

Enc.:



# SOIL SAMPLING-METHODS





# Split barrel sampling

The following excerpts are from "Standard Method for penetration test and split-barrel sampling of soils." (ASTM designation: D-1586-99 AASHO Designation: T-206-87.)

1. Scope

1.1 This method describes a procedure for using a splitbarrel sampler to obtain respresentative samples of soil for identification purposes and other laboratory tests, and to obtain a measure of the resistance of the soil to penetration of the sampler.

2. Apparatus

2.1 Drilling Equipment — Any drilling equipment shall be acceptable that provides a reasonably clean hole before insertion of the sampler to ensure that the penetration test is performed on undisturbed soil, and that will permit the driving of the sampler to obtain the sample and penetration record in accordance with the procedure described in 3. Procedure. To avoid "whips" under the blows of the hammer, it is recommended that the drill rod have stiffness equal to or greater than the A-rod. An "A" rod is a hollow drill rod or "steel" having an outside diameter of 1-5/8 in. or 41.2 mm and an inside diameter of 1-1/8 in. or 28.5 mm, through which the rotary motion of drilling is transferred from the drilling motor to the cutting bit. A stiffer drill rod is suggested for holes deeper than 50 ft (15m). The hole shall be limited in diameter to between 2-1/4 and 6 in. (57.2 and 152mm).

2.2 Split-Barrel Sampler — The sampler shall be constructed with the dimensions indicated (in Fig. 1.) The drive shoe shall be of hardened steel and shall be replaced or repaired when it becomes dented or distorted. The coupling head shall have four 1/2-in. (12.7-mm) (minimum diameter) vent ports and shall contain a ball check valve. If sizes other than the 2-in. (50.8-mm) sampler are permitted, the size shall be conspicuously noted on all penetration records.

2.3 Drive Weight Assembly — The assembly shall consist of a 140-lb (63.5-kg) weight, a driving head, and a guide permitting a free fall of 30 in. (0.76 m). Special precautions shall be taken to ensure that the energy of the falling weight is not reduced by friction between the drive weight and the guides.

2.4 Accessory Equipment — Labels, data sheets, sample jars, paraffin, and other necessary supplies should accompany the sampling equipment.





**COHESIVE SOILS** 

#### **GENERAL NOTES**

1. Soil boring logs, notes and other data shown are the results of personal observations and interpretations made by Parratt-Wolff, Inc.

Exploration records prepared by our drilling foreman in the field form the basis of all logs, and samples of subsurface materials retained by the driller are observed by technical personnel in our laboratory to check field classifications.

2. Explanation of the classifications and terms:

COHESIONLESS SOILS -

- a. Bedrock Natural solid mineral matter occurring in great thickness and extent in its natural location. It is classified according to geological type and structure (joints, bedding, etc.) and described as solid, weathered, broken or fragmented depending on its condition.
- b. Soils Sediments or other unconsolidated accumulations of particles produced by the physical and chemical disintegration of rocks and which may or may not contain organic matter.

#### PENETRATION RESISTANCE

Blows Per Ft.	Helative Density	Blows Per Ft.	Consistency
0 to 4	Very Loose	0 to 2	Very Soft
4 to 10	Loose	2 to 4	Soft
10 to 30	Medium Dense	4 to 8	Medium Stiff
30 to 50	Dense	8 to 15	Stiff
Over 50	Very Dense	15 to 30	Very Stiff
		Over 30	Hard
Size	e Component Terms	Pro	oportion By Weight
Cobble	Larger than 300 mm	Major	component is shown
— medium .			component percen- erms of total sample
— medium . — fine		some little	. 35 to 50 percent 20 to 35 percent . 10 to 20 percent . 1 to 10 percent

- c. Gradation Terms The terms coarse, medium and fine are used to describe gradation of Sand and Gravel.
- d. The terms used to describe the various soil components and proportions are arrived at by visual estimates of the recovered soil samples. Other terms are used when the recovered samples are not truly representative of the natural materials, such as soil containing numerous cobbles and boulders which cannot be sampled, thinly stratified soils, organic soils and fills.
- e. Ground water The measurement was made during exploration work or immediately after completion, unless otherwise noted. The depth recorded is influenced by exploration methods, soil type and weather conditions during exploration. Where no water was observed it is so indicated. It is anticipated that the ground water table may rise during periods of wet weather and may fall during dry weather. In addition, perched ground water above the water levels indicated (or above the bottom of the hole where no ground water is indicated) may be encountered at changes in soil strata or top of rock.



parrett wolffine

PROJECT Former GM Fisher Guide Facility

LOCATION Syracuse, New York

HOLE NO. JOB NUMBER:

01165

SURF. EL.

**DATE STARTED** DATE COMPLETED 5/24/01 5/24/01

**GROUNDWATER DEPTH** 

WHILE DRILLING

6.0'

N - NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" - ASTM D-1586 STANDARD PENETRATION TEST

**BEFORE CASING** 

**AFTER CASING** 

**REMOVED** 

Dry

C - NO. OF BLOWS TO DRIVE CASING 12" W/

**REMOVED CASING TYPE** 

Dry

**FALLING** 

"/ OR PERCENT CORE RECOVERY

SHEET 1 OF 1 P.O. #10110312E

**HOLLOW STEM AUGER DRILLER'S FIELD LOG** 

	·		· · · · · · · · · · · · · · · · · · ·						
					SAM	<b>IPLE</b>			
		1		l		RIVE			STRATA
			SAMPLE	I .		ORD	1	DESCRIPTION OF MATERIAL	CHANGE
	DEPTH	DEPTH	NO.	Rec		R 6"	N		DEPTH
i		0.0'-	1			7		CONCRETE FRAGMENTS	
		2.0'				10	18		
		2.0'-	2		7	14			3.0
		4.0'				28	35	Brown moist hard to medium stiff SILT, some	
	5.0	4.0'-	3			19		fine to medium gravel, little clay	
	WL 🔻	5.9'			20	504'	39		
		6.0'-	4		4	7			
ı		8.0'			6	6	13		
		8.0'-	5		3	4		·	1
1	10.0	10.0'			2	1	6		1
ı								Bottom of Boring	10.0
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P.O. Box 56, 5879 Fisher Road, East Syracuse, NY 13057 Telephone 315-437-1429 or 800-782-7260 FAX 315-437-1770 ☐ P.O. Box 1029, 501 Millstone Drive, Hillsborough, NC 27278 Telephone 919-644-2814 or 800-627-7920 FAX 919-644-2817



parratt

PROJECT Former GM Fisher Guide Facility

LOCATION Syracuse, New York

HOLE NO.

**B-2** 

JOB NUMBER: SURF. EL.

01165

**GROUNDWATER DEPTH** WHILE DRILLING

Dry

DATE STARTED DATE COMPLETED

5/24/01 5/24/01

**BEFORE CASING** 

**REMOVED** 

Dry

N - NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" - ASTM D-1586 STANDARD PENETRATION TEST

**AFTER CASING** 

C - NO. OF BLOWS TO DRIVE CASING 12" W/

**REMOVED** CASING TYPE.

Dry **HOLLOW STEM AUGER**  **FALLING** "/ OR PERCENT CORE RECOVERY

**DRILLER'S FIELD LOG** 

SHEET 1 OF 1 P.O. #10110312E

				SAN	<b>IPLE</b>		. ,	T
		,		DR	IVE	1		STRAT
	SAMPLE	SAMPLE		REC	ORD		DESCRIPTION OF MATERIAL	CHANG
DEPTH	DEPTH	NO.	Rec	PE	R 6"	N		DEPT
	0.0'-	1			10		Brown moist hard to medium stiff SILT, little	<del></del>
	2.0'				14	22	clay, trace fine to medium gravel	
	2.0'-	2			8			1
	4.0'			10	8	18		
5.0	4.0'-	3			3			
	6.0'			4	4	7		
	6.0'-	4		6	6			
	8.0'			7	9	13		
	8.0'-	5		6				
10.0	10.0'		-	7	7	12		
	·						Bottom of Boring	10.
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PROJECT Former GM Fisher Guide Facility

LOCATION Syracuse, New York

HOLE NO. JOB NUMBER:

**B-3** 

SURF. EL.

01165

DATE STARTED 5/24/01

**GROUNDWATER DEPTH** 

WHILE DRILLING

Dry

DATE COMPLETED 5/24/01

**BEFORE CASING** 

**REMOVED** 

Dry

N - NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER

FALLING 30" - ASTM D-1586 STANDARD PENETRATION TEST

**AFTER CASING** 

C - NO. OF BLOWS TO DRIVE CASING 12" W/

REMOVED Dry						FALLING "/ OR PERCENT CORE RECOVERY					
CASING TY DRILLER'S		HOLLOW G	STEM	AUGER				SHEET P.O. #10	1 OF 1 0110312E		
DEPTH	SAMPLE DEPTH	SAMPLE NO.	Rec	SAMPI DRIVI RECOF PER 6	E RD		DESCRIPTION OF MAT	ERIAL	STRATA CHANGE DEPTH		
5.0	0.0'- 2.0' 2.0'- 4.0' 4.0'- 6.0'	2 3		8 10 11 12 4 7 6 8 11 16 12 14	2 21	to mediur and brick	bist very stiff to stiff SIL n gravel, some clay, trad fragments	•			
	6.0'- 8.0' 8.0'-	5		13 14 14 19 7 11	) 28	3					

	4.0'			6	8	13	_
5.0	4.0'-	3		11	16		
	6.0'			12	14	28	
	6.0'-	4		13	14		
	8.0'		1	14	19	28	
	8.0'-	5		7	11		
10.0	10.0'			14	14	25	
			1				Bottom of Boring
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Wolffing

PROJECT Former GM Fisher Guide Facility

LOCATION Syracuse, New York

**GROUNDWATER DEPTH** 

WHILE DRILLING

Dry

HOLE NO.

JOB NUMBER:

**B-4** 01165

SURF. EL.

5/24/01

**DATE STARTED** DATE COMPLETED

5/24/01

**BEFORE CASING** 

**REMOVED** 

Dry

FALLING 30" - ASTM D-1586 STANDARD PENETRATION TEST

N - NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER

AFTER CASING

**REMOVED** Dry C - NO. OF BLOWS TO DRIVE CASING 12" W/ **FALLING** "/ OR PERCENT CORE RECOVERY

**CASING TYPE** 

**HOLLOW STEM AUGER** 

SHEET 1 OF 1 P.O. #10110312E

**DRILLER'S FIELD LOG** 

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						<b>MPLE</b>					
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			SAMPLE		REC	ORD		DESCRIPTION OF MATERIAL	CHANGE		
L	DEPTH	DEPTH	NO.	Rec		PER 6"					DEPTH
		0.0'-	1		3	3		Brown moist medium stiff to very stiff SILT	DEFIN		
		2.0'			4	5	7	and CLAY, trace fine gravel			
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L	5.0	4.0'-	. 3		7	11					
		6.0'				15	21		]		
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P.O. Box 56, 5879 Fisher Road, East Syracuse, NY 13057 Telephone 315-437-1429 or 800-782-7260 FAX 315-437-1770 P.O. Box 1029, 501 Millstone Drive, Hillsborough, NC 27278 Telephone 919-644-2814 or 800-627-7920 FAX 919-644-2817



PROJECT Former GM Fisher Guide Facility

LOCATION Syracuse, New York

HOLE NO.

SURF. EL.

JOB NUMBER:

01165

**GROUNDWATER DEPTH** 

WHILE DRILLING

Dry

DATE STARTED DATE COMPLETED 5/24/01 5/24/01

**BEFORE CASING** 

REMOVED

Dry

N - NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER

FALLING 30" - ASTM D-1586 STANDARD PENETRATION TEST

**AFTER CASING REMOVED** 

Dry

C - NO. OF BLOWS TO DRIVE CASING 12" W/

CASING TYPE

**FALLING** 

"/ OR PERCENT CORE RECOVERY

**HOLLOW STEM AUGER** 

SHEET 1 OF 1

DRILLER'S FIELD LOG

P.O. #10110312E

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				DR	IVE	l		STRATA
	SAMPLE	SAMPLE		REC	ORD	]	DESCRIPTION OF MATERIAL	CHANGE
DEPTH	DEPTH	NO.	Rec		R 6"	N		DEPTH
	0.0'-	1		7	8		Brown moist very stiff to soft SILT, little clay,	1
	2.0'			9	8	17	trace fine to medium gravel	
	2.0'-	2		7	7			
	4.0'			8	10	15		-
5.0	4.0'-	3		7	6			
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PROJECT Former GM Fisher Guide Facility

LOCATION Syracuse, New York

HOLE NO.

**B-6** 

JOB NUMBER: SURF. EL. 01165

**GROUNDWATER DEPTH** 

WHILE DRILLING

Dry

DATE STARTED DATE COMPLETED

5/24/01 5/24/01

**BEFORE CASING** 

REMOVED

Dry

N - NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" - ASTM D-1586 STANDARD PENETRATION TEST

**AFTER CASING** 

Dry

C - NO. OF BLOWS TO DRIVE CASING 12" W/

# HAMMER

REMOVED **CASING TYPE** 

**HOLLOW STEM AUGER** 

**FALLING** "/ OR PERCENT CORE RECOVERY

**DRILLER'S FIELD LOG** 

SHEET 1 OF 1 P.O. #10110312E

				SAMPLE		]		
	İ				DRIVE		·	STRATA
	SAMPLE	SAMPLE			RECORD		DESCRIPTION OF MATERIAL	CHANGE
DEPTH	DEPTH	NO.	Rec	PER 6"		N		DEPTH
	0.0'-	1		503'			Brown moist hard to very stiff SILT, some	
	0.3'						clay, some to little fine to medium gravel	
5.0	4.0'-	2			13			
•	6.0'				10	26		
	6.0'-	3			11	<u> </u>		
ŀ	8.0'			11	13	22	•	İ
	8.0'-	4		12	11			
10.0	10.0'			10	10	21		
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#### **Electronic TSCA waste manifest forms**

See following table for manifest tracking summary

#### GM SYRACUSE Former Landfill IRM Hazardous Waste Manifest Tracking for Hot Spot Material

[	Manifest Manifest Tracking for not spot waterial   Manifest Manifest Trailer Actual											
Date	Source	Doc, No.		Transporter	I	Actual						
7/25/2002	NWDP#2	00363	NYB9511695	Transporter		Wt. (Kg)						
7/25/2002	NWDP#2	00364	NYB9511704		AD15617-NY AD15609-NY	28,132 27,914						
7/25/2002	NWDP#2	00365	NYB9511713		AD15889-NY	28,159						
7/25/2002	NWDP#2	00366	NYB9511722		AD15317-NY	30,636						
7/25/2002	NWDP#2	00367	NYB9511731		AD15624-NY	30,092						
7/25/2002	NWDP#2	00368	NYB9511749		AD15814-NY	27,969						
7/25/2002	NWDP#2	00369	NYB9511758		AD15325-NY	22,907						
7/29/2002	NWDP#2	00371	NYB9511767		AC45444-NY	27,678						
7/29/2002	NWDP#2	00372	NYB9511776	Buffalo Fuel	AD88964-NY	30,845						
7/29/2002	NWDP#2	00373	NYB9511785		AD24674-NY	24,594						
7/29/2002	NWDP#2	00374	NYB9511794		AC24689-NY	29,674						
10/17/2002	Hot Spot	00789	NYB9724248		AC15548-NY	25,574						
10/31/2002	TS-5	00790	NYB9724257		2950B7-NY	31,180						
10/31/2002	TS-5	00791	NYB9724266		1280B7-NY	27,933						
11/1/2002	TS-5	00792	NYB9724275			23,723						
11/1/2002	TS-5	00793 00794			AD76900-NY	20,167						
11/1/2002 11/1/2002	Hot Spot Hot Spot	00794	NYB9724293 NYB9724302	U.S. Bulk U.S. Bulk	AG24558-NY AC40405-NY	30,473						
12/2/2002	Hot Spot	00796	NYB9724302 NYB9724311		AD15889-NY	24,494 25,592						
12/2/2002	Hot Spot	00797	NYB9724311		AD15863-NY	25,619						
12/2/2002	Hot Spot		NYB9724328	U.S. Bulk	181207A-NY	31,407						
12/2/2002	Hot Spot		NYB9724347	U.S. Bulk	AE94114-NY	29,085						
12/2/2002	Hot Spot	00800	NYB9724356	U.S. Bulk	AD65298-NY	31,217						
12/2/2002	Hot Spot	00801	NYB9724365	U.S. Bulk	AE53089-NY	30,500						
12/2/2002	Hot Spot	00802	NYB9724374	U.S. Bulk	AD58336-NY	29,366						
12/2/2002	Hot Spot	00803	NYB9724383		AD16043-NY	25,265						
12/2/2002	Hot Spot	00804	NYB9724392	Buffalo Fuel	AB31507-NY	23,959						
12/2/2002	Hot Spot		NYB9724401		AD15999-NY	26,808						
12/5/2002	Hot Spot		NYB9724419	U.S. Bulk	AD65298-NY	32,015						
12/5/2002	Hot Spot		NYB9724428	U.S. Bulk	AD58336-NY	29,575						
12/5/2002	Hot Spot		NYB9724437	U.\$. Bulk	181207A-NY	32,233						
12/20/2002	Hotspot		NYB9732699		AD15307-NY	26,826						
12/20/2002	Hotspot	00957	NYB9732708	Price Truck.	2216A2-NY	25,338						
12/20/2002 6/27/2003	Hotspot Hotspot		NYB9732717 NYB9733347		AC45444-NY AC25267-NY	29,112						
9/22/2003	HS-3	01020	NYB9733698		AC-25361-NY	19,541 27,043						
9/22/2003	HS-3		NYB9733707		AD15854-NY	29,819						
9/22/2003	HS-3		NYB9733716		AD15617-NY	27,651						
9/22/2003	HS-3		NYB9733725		AD15638-NY	26,408						
9/22/2003	HS-3		NYB9733734		AC25464-NY	22,743						
9/22/2003	HS-3		NYB9733743		AC25367-NY	21,664						
9/22/2003	HS-3		NYB9733752	U.S. Bulk	AE94114-NY	32,732						
9/22/2003	HS-3	01062	NYB9733761	U.S. Bulk	XY21657-PA	25,801						
9/22/2003	HS-1b		NYB9733779	U.S. Bulk	AH67323-NY	31,879						
9/22/2003	HS-1b		NYB9733788	U.S. Bulk	XS19525-PA	25,802						
9/23/2003	HS-3		NYB9733797		AD65298-NY	32,468						
9/23/2003	HS-3		NYB9733806	U.S. Bulk	XY21657-PA	30,545						
9/23/2003	HS-3		NYB9733815	U.S. Bulk	AH67323-NY	29,094						
9/23/2003	HS-3		NYB9733824		AC25358-NY	19,042						
9/23/2003	HS-3		NYB9733833		AD15822-NY	32,042						
9/23/2003	HS-3		NYB9733842		AB31506-NY	31,979						
9/23/2003 9/23/2003	HS-3 HS-2		NYB9733851 NYB9733869		AD88964-NY	33,838						
9/23/2003	HS-2		NYB9733878	U.S. Bulk	XW63964-PA AD35962-NY	31,353 33,593						
9/23/2003	HS-2		NYB9733887	Page ETC	2945B7-NY	34,038						
9/23/2003	HS-2		NYB9733896		AC25361-NY	20,757						
9/23/2003	HS-2		NYB9733905	U.S. Bulk	XS19525-PA	24,585						
9/23/2003	HS-2		NYB9733914	Page ETC	2938B7-NY	27,778						
9/23/2003	HS-1		NYB9733923	Page ETC	2950B7-NY	25,392						
9/23/2003	HS-1		NYB9733932		AB58310-NY	31,734						
9/23/2003	HS-1		NYB9733941	U.S. Bulk	AB58309-NY	29,293						
9/23/2003	HS-1		NYB9733959		AJ76780-NY	22,090						
9/23/2003	H\$-1	01082	NYB9733968	U.S. Bulk	AJ87805-NY	25,909						

### GM SYRACUSE Former Landfill IRM Hazardous Waste Manifest Tracking for Hot Spot Material

		Manifest	Manifest	Г	Trailer	Antual
Date	Source	Doc, No.	Number	  Transporter		Actual Wt. (Kg)
10/28/2003		01104	NYB9734184			
10/28/2003		01104	NYB9734193		AC25362-NY AC45444-NY	19,967
10/28/2003		01106	NYB9734202		AC25378-NY	28,767 20,357
10/28/2003		01107	NYB9734211		AD88964-NY	30,173
10/28/2003	FA H-spot	01108	NYB9734229			22,752
10/28/2003	FA H-spot	01109	NYB9734238		AC24689-NY	27,697
10/28/2003	FA H-spot	01110	NYB9734247			26,281
10/28/2003	FA H-spot	01111	NYB9734256	U.S. Bulk	AC95899-NY	31,362
10/28/2003		01112	NYB9734265		XS36220-PA	29,738
10/28/2003	FA H-spot	01113	NYB9734274		AC95896-NY	30,672
10/28/2003	FA H-spot	01114	NYB9704835	Tonawanda	AC25367-NY	21,854
10/28/2003		01115	NYB9704844	Tonawanda		22,634
10/28/2003 10/28/2003	FA H-spot FA H-spot	01116 01117	NYB9704853 NYB9704862	U.S. Bulk U.S. Bulk	AC40405-NY JEN ICE-NY	30,173
10/28/2003		01117	NYB9704802		AD15999-NY	31,154 28,767
10/28/2003	FA H-spot	01119	NYB9704889	-	AD15829-NY	30,863
10/28/2003	FA H-spot	01120	NYB9704898		AC25464-NY	31,988
10/28/2003	FA H-spot	01121	NYB9704907		AD15832-NY	31,108
10/28/2003	FA H-spot	01122	NYB9704916	U.S. Bulk	XW63964-PA	31,180
10/28/2003	FA H-spot	01123	NYB9704925	U.S. Bulk	AD35962-NY	28,441
10/28/2003	FA H-spot	01124	NYB9704934	Tonawanda	AC25361-NY	25,655
10/30/2003	FA H-spot	01125	NYB9704943	Tonawanda	AC25361-NY	21,002
10/30/2003	FA H-spot	01126	NYB9704952	Page ETC	2938B7-NY	28,386
10/30/2003	FA H-spot	01127	NYB9704961	Page ETC	AD33406-NY	28,078
10/30/2003	FA H-spot		NYB9704979		AD88964-NY	29,692
	FA H-spot	01129 01130	NYB9704988		AC25378-NY	23,270
10/30/2003 10/30/2003	FA H-spot FA H-spot		NYB9704997 NYB9705006	Page ETC Tonawanda	2950B7-NY AC25362-NY	25,946
10/30/2003	FA H-spot		NYH1352016	Ruffalo Fuel	AC45444-NY	22,498 29,547
10/30/2003	FA H-spot		NYH1352025		AD15832-NY	27,978
10/30/2003	FA H-spot		NYH1352034		AB31506-NY	28,967
10/30/2003	FA H-spot		NYH1352043		AD15829-NY	29,729
10/30/2003	FA H-spot	01136	NYH1352052	U.S. Bulk	AE94114-NY	31,561
10/30/2003	FA H-spot		NYH1352061	Tonawanda	AC25378-NY	23,178
10/30/2003	FA H-spot	01138	NYH1352079		AC25369-NY	23,587
10/30/2003	FA H-spot	01139	NYH1352088		XW22571-PA	19,813
10/30/2003	FA H-spot		NYH1352097		AD15854-NY	23,134
10/30/2003	FA H-spot	01141	NYH1352106	Page ETC	2945B7-NY	30,437
10/30/2003 10/30/2003	FA H-spot FA H-spot	01142 01143	NYH1352115 NYH1352124		AD15629-NY AD15617-NY	30,173 28,976
10/30/2003	FA H-spot	01143	NYH1352133		AC15548-NY	26,481
10/30/2003	FA H-spot		NYH1352142		AD27945-NY	29,257
10/30/2003	FA H-spot		NYH1352151		AC24689-NY	27,551
10/30/2003	FA H-spot		NYH1352169		AB31507-NY	28,450
11/21/2003	FA H-spot		NYH1352178	U.S. Bulk	AK82123-NY	31,380
11/21/2003	FA H-spot		NYH1352187	U.S. Bulk	JEN ICE-NY	31,189
11/21/2003	FA H-spot		NYH1352196	U.S. Bulk	XS36220-PA	29,810
11/21/2003	FA H-spot		NYH1352205	U.S. Bulk	AC40405-NY	27,769
11/21/2003	FA H-spot		NYH1352214		2254B8-NY	34,918
11/21/2003 11/21/2003	FA H-spot		NYH1352223		7002A4-NY	31,307
11/21/2003	FA H-spot		NYH1352232 NYH1352241		2255B8-NY	26,962
11/24/2003	FA H-spot		NYH1352259		2304B7-NY 2254B8-NY	24,639 29,638
11/24/2003	FA H-spot		NYH1352268		2255B8-NY	23,578
11/24/2003	FA H-spot		NYH1352277		7002A4-NY	29,602
11/24/2003	FA H-spot		NYH1352286		2304B7-NY	25,238
11/25/2003	FA H-spot	01160	NYH1352295	Price Truck.	XS02430-PA	32,087
	NiMo Poles	01162	NYH1352304	Price Truck.	7002A4-NY	31,062
	NiMo Poles		NYH1352313		2305B7-NY	31,317
	NiMo Poles		NYH1352322		2254B8-NY	33,430
	NiMo Poles		NYH1352331		2304B7-NY	22,108
	NiMo Poles			Tonawanda		22,952
7/16/2004	NiMo Poles	01168	NYH1352358	Tonawanda	AC25369-NY	21,201

### GM SYRACUSE Former Landfill IRM Hazardous Waste Manifest Tracking for Hot Spot Material

Date	Source	Manifest Doc, No.		Transporter	Trailer Liscense	Actual Wt. (Kg)
7/16/2004	NiMo Poles	01169	NYH1352367	Tonawanda	AC25361-NY	26,055
10/18/2004			NYH1394019		2255B8-NY	30,690
10/18/2004		01242	NYH1394028	U.S. Bulk	AC95896-NY	30,445
10/18/2004	NM Swale	01243	NYH1394037	U.S. Bulk	AJ76780-NY	27,706
10/18/2004	NM Swale	01244	NYH1394046	U.S. Bulk	XS19525-PA	23,959
10/18/2004	NM Swale	01245	NYH1394055	Price Truck.	AD16492-NY	15,930
11/11/2004	TB-02-03A	01246	NYH1394064	Buffalo Fuel	AD88964-NY	31,026

Total	(kg)	3,677,946

Total	(CY)	2,703

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Day

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

Printed/Typed Name

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ase type or print. Do not staple.	P.O. Box 12	820, Albany, New	York	12212	2			(Ha	. izardous Waste Manifest 5/00)
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's	US EPA No.	Manifes	t Doc. I	No. 2	. Page 1 o	{ milomia	tion with	nin heavy bold line
Generator's Name and Mailing Address	B A D O G	<u>12                                    </u>	00	<u>                                    </u>			is not re	:quirea i	by Federal Law.
INLAND FISHER GUIDE CM						<sup>a.</sup> N	YB95	511	695
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SYRACUSE NY 13206-0486 4. Generator's Telephone Number (315-1/83)	9 . Kath				1	B. Genera			
Transporter 1 (Company Name)	2-2214	6. US EPA ID Number				SAM			
							ansporter's I	D 19,	0156171
7. Transporter 2 (Company Name)		8. US EPA ID Number	4/2/	1 4			orter's Teleph	one (	0 15 6 171
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Designated Facility Name and Site Address	· <u>-</u>	10. US EPA ID Numbe		<u> </u>		G. State F	orter's Teleph	one (	
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11. US DOT Description (Including Proper Shipping	g Name, Hazard Cl	lass and ID Number)		Num	ber <sub>I</sub> T	vpe	Quantity	Wt/Vol	
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J. Additional Descriptions for Materials listed Above					K	. Handling	Codes for Wa	stes Lis	sted Above
a.CS9438-PCB SOIL A DEBI	CLS <sub>ic</sub>		1	<b>.</b> 1	a		Evx	I c	
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15. Special Handling Instructions and Additional Info	d.	<del></del>	<del></del>	• 1	b	•	الببيا	d.	
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s. PCB dut of Service Da CHEMTREC Emorgency Resp	onse Womi	ber (Bbt) 42	7~93(	) () <b>V</b>	M	Conti	ract	ERI	3#171
SERVICE REQUEST#				•	SF	1075	200		
16. GENERATOR'S CERTIFICATION: I here	by declare that the	contents of this consignme	nt are full	u and a	courata	است <i>ا الد</i> ار	Jacob Market		
classified, packed, marked and labeled, and are in a and state laws and regulations.	all respects in proper	condition for transport by hi	ghway acc	cording t	to applic	able interna	itional and nat	ional gov	vernment regulations
If I am large quantity generator. I certify that I have	a program in place	to reduce the volume and	toxicity of	waste n	enerate	d to the do	aroo I hawa da	starmina	d to be economically
practicable and that I have selected the practicable and the environment; OR if I am a smaller generator									
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20. Facility Owner or Operator: Certification of receip	ot of hazardous mai	terials covered by this ma	nifest exc	ept as	noted in	n Item 19	•		
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 07/26/02 as described on Hazardous Waste Manifest number NYB9511695 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CS9438 CWM Tracking ID: 8156282201

CWM Unit #: 1\*0 Disposal Date: 07/26/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 232928 07/29/02

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVÍSION OF SOLID & HAZARDOUS MATERIALS

(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

	UNIFORM HAZARDOUS 1. Generator's	US EPA No.	Manifes	t Doc. No.	2. Pag	ge 1 of Informa	tion with	in heavy bold line
	WASTE MANIFEST  3. Generator's Name and Mailing Address	REBBRAD	40	1364				y Federal Law.
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	4. Generator's Telephone Number (315 \$32-5314				I	AME.		
	5. Transporter 1 (Company Name)	6. US EPA ID Number		<del></del>		tate Transporter's I	D 645	7 0 11
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	7. Transporter 2 (Company Name)	8. JUS EPA 1D Number	, e	1 4 7	E. S	tate Transporter's I	D	Petit CV C LEGITICAL
	Designated Facility Name and Site Address				F. Tr	ransporter's Teleph	one (	)
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	11. US DOT Description (Including Proper Shipping Name, Hazard Cla		<u> </u>	12. Cont	_	13. Total	14. Unit	
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	and state laws and regulations.							- 1
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ļ	and the environment, OR if I am a smaller generator, I have made a good to me and that I can afford.  Printed/Typed News		asie gene	nauon and s	elect the	best waste manage	ment me	tnoo that is available
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FACI	20. Facility Owner or Operator: Certification of receipt of hazardous mat	erials covered by this mar	nifest exc	ept as note	d in Iten	n 19.	•	
	Printed/Typed Name	Signature	. 6	P7	i		-	Mo. Day Year
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 07/26/02 as described on Hazardous Waste Manifest number NYB9511704 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CS9438 CWM Tracking ID: 8156280901

CWM Unit #: 1\*0 Disposal Date: 07/26/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 232918
07/29/02

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212

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(Hazardous Waste Manifest 5/00)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's			t Doc. No. $365$	2. Page 1	"""		heavy bold line Federal Law.
3. Generator's Name and Mailing Address	N H (3-13-13		1) 6/6/	13/8/10	Δ	<u> </u>	<u> </u>	
INLAND FISHER GUIDE GM I GENERAL MOTORS DR SYRACUSE MY 13206-Q486						NYB9	511	713
Generator's Telephone Number (3155 )(1)     Transporter 1 (Company Name) /	2-5314				\$ A			
SI Strang Butta 6 Furl	1000	6. US EPA ID Num		an design on a	C. State	Transporter's	ID A D	15 889,00
7. Transporter 2 (Company Name)	Carja.	N Y L O O O	1099	1/4				A)677 80
, (case, my, canaly)		o. OS EFA ID INUIN	ber			Transporter's		
9. Designated Facility Name and Site Address		10. US EPA ID Nun	lber	ــــــــــــــــــــــــــــــــــــــ		porter's Teleph	one (	)
CWN CHEMICAL SERVICES, 1550 BALMER RD.						Facility ID ty Telephone	( )	
MODEL CITY NY 14107	······································	<u>аноонр</u>	11 15 6			6 754	8231	
11. US DOT Description (Including Proper Shipping	Name, Hazard Cl	ass and ID Number)		12. Cont		13. Total	14. Unit	***
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15. Special Handling Instructions and Additional Infor	mation			<u> </u>	b.		d.	
s. PCB Out of Service Da CHEMTREC Emergency Respo			ZW-930	o un	l Cont	tract	ERG	V171
SERVICE REQUEST#	er en engelen e de las ersone processes pendos en comunica e a	, r-=	+	2151/	2815			
GENERATOR'S CERTIFICATION: I hereb classified, packed, marked and labeled, and are in all and state laws and regulations.	u doclare that the e	optopto of this accel-				ed above by pr national and na	oper shippi tional govern	ng name and are nment regulations
If I am large quantity generator. I certify that I have practicable and that I have selected the practicable mand the environment; OR if I am a smaller generator, to me and that I can afford.	a program in place to the place	o reduce the volume a storage, or disposal cur faith effort to minimize r	nd toxicity of v rently available ny waste gene	waste gener to me whic ration and s	ated to the d h minimizes elect the bes	legree I have de the present and t waste manage	etermined to future threa ement metho	be economically at to human health and that is available
Printed/Typed Name		Signature /		13 13			Mo	o. Day Year
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17. Transporter 1 Acknowledgement of Receipt of Ma	terials							
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18. Transporter 2 Acknowledgement of Receipt of Ma	terials	Land A Kind	& Charles					12502
Printed/Typed Name		Signature			<u> </u>		Mo	o. Day Year
19. Discrepancy Indication Space	s 1°)							
actual reed	28/5	- warne	····	·				
20. Facility Owner or Operator: Certification of receipt	of hazardous mate	orials covered by this	manifest exce	ept as note	d in Item 19			
Printed/Typed Name ET LEUN (A)(C)	T. Cham.	Signature	WA.	CA.	1. 1.	, _	Mo ()	Day Year



CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DESTRUCTION

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 07/26/02 as described on Hazardous Waste Manifest number NYB9511713 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was incinerated and thereby destroyed in accordance with the 40 CFR part 761 as it pertains to the incineration of Poly-Chlorinated Biphenyl contaminated materials.

Profile Number: 'CS9438 CWM Tracking ID: 8156281501

CWM Unit #: 1\*0 Disposal Date: 07/26/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 232923
07/29/02

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DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

TRANSPORTER

HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

(Hazardous Waste Manifest 5/00)

WASTE MANIECT	Generator's US EPA No.	Manifest Doc. No.	2. Page 1 of	Information within heavy bo	
3. Generator's Name and Mailing Address	<u>R D R D R R B M A A D</u>	100366		is not required by Federal L	aw.
INLAND FISHER GUIDE GN			I <sup>∧.</sup> NY	B9511722	
I GENERAL MOTORS DR SYRACUSE NY 13206-0486			B. Generator		
4. Generator's Telephone Number (115 1632 -	5314		SAME	0.10	
5. Transporter 1 (Company Name)	6. US EPA ID Number		C. State Trans	sporter's ID AAA	<del>,</del> -
Sucholo full Part	MYICALL	5.4.5 D.D.U	D. Transporte	r's Telephone	111
7. Transporter 2 (Company Name)	8. US EPA ID Number	<u> </u>	E. State Trans	sporter's ID	7 <u>4</u> ) (1
		1 1 1 1 1	F. Transporte	<del></del>	
Designated Facility Name and Site Address	10. US EPA ID Number		G. State Facil	<del></del>	
GWY CHEMICAL SERVICES, L	A.C.		1		
1550 BALMER RD.			H. Facility Tel	ephone ( )	
MODEL CITY NY 1410?	<u> </u>	06679	716	754-8231	
11. US DOT Description (Including Proper Shipping Na	ame, Hazard Class and ID Number)	12. Cont	i i	Total 14. Unit	
	•	Number	Type Qu	antity Wt/Vol I. Was	te No.
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b.		<u> </u>	DT 26	DOOK KOO?	
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J. Additional Descriptions for Materials listed Above			K. Handling Cod	les for Wastes Listed Above	
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15. Special Handling Instructions and Additional Informa	tion.	<i>y</i> .			
CHEMIREC Emergency Respon	as Number (800) 421	79300 UMI	Contra	ot ERG#171	
SERVICE REQUEST#	:			_	
16. GENERATOR'S CERTIFICATION	The first of the first of the second section of the section of t		5627	13	
<ol> <li>GENERATOR'S CERTIFICATION: I hereby di classified, packed, marked and labeled, and are in all re- and state laws and regulations.</li> </ol>	eclare that the contents of this consignment spects in proper condition for transport by hi-	nt are fully and accura ghway according to app	stely described ab plicable internation	ove by proper shipping name a	and are
If I am large quantity generator, I certify that I have a po	rogram in place to reduce the university	and the state of			
practicable and that I have selected the practicable meth and the environment; OR if I am a smaller generator. I ha	od of treatment, storage, or disposal current	oxicity of waste generally available to me which	ated to the degree h minimizes the pr	<ul> <li>I have determined to be econo esent and future threat to humar</li> </ul>	omičally n health
to me and that I can afford.	we made a good ваки епол то minimize my и	vaste generation and so	elect the best was	e management method that is a	vailable
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トライン (つぶん) (つぶん) (1) 18. Transporter 2 Acknowledgement of Receipt of Materi	- Complexity	Carl State All	sed.	101714	મંગજ
Printed/Typed Name		<del></del>			
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19. Discrepancy Indication Space	Signature			Mo. Day	Year
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<del></del>	Signature	VI		Mo, Day	Year
19. Discrepancy Indication Space  Out luc. 30636 K  20. Facility Owner or Operator: Certification of receipt of		nifest except as noted	d in Item 19.	Mo, Day	Year
19. Discrepancy Indication Space	hazardous materials covered by this mar		d in Item 19.	Mo. Day	Year



CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE

SYRACUSE NY 13206-0486

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 07/26/02 as described on Hazardous Waste Manifest number NYB9511722 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CS9438 CWM Tracking ID: 8156279301

CWM Unit #: 1\*0 Disposal Date: 07/26/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES V DIVISION MANAGER Certificate # 232903 07/29/02

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DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# HAZARDOUS WASTE MANIFEST

DIVISION OF SOLID & HAZARDOUS MATERIALS

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

se type or print. Do not staple.	2.O. Box 128	20, Albany, New	York 1	12212				(Haz	ardous Waste M	l. lifty
UNIFORM HAZARDOUS	1. Generator's U	S EPA No.		t Doc. No.	2. Pag	e i of	Informat		n heavy bol	
WASTE MANIFEST	<u> </u>	<u> </u>	00	367	Ĺ	1			y Federal La	
3. Generator's Name and Mailing Address INLAMD FISHER GUIDE GM I GENERAL MOTORS DR SYRACUSE NY 13206-0486 4. Generator's Telephone Number (315 #32-	-5314				A. B. G	NY enerator's		11	731	
5. Transporter 1 (Company Name)		6. US EPA ID Number					porter's II	A A	1 67 28	1 2 12
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7. Transporter 2 (Company Name)		8. US EPA ID Number	1 (1.500)	- 1 34,1 1			porter's II		<u> </u>	V 100
			1 1 1	1 1 1			's Telepho		<del></del> ,	
Designated Facility Name and Site Address		10. US EPA ID Number		·	G. St	ate Facili	ty ID	<u> </u>		
CWM CHEMICAL SERVICES, 1. 1550 BALMER RD.	ALC.				H. Fa	acility Tele	phone (			
MODEL CITY MY 14107	14	888999 <u>8</u>	061	6 2 9			754	8231	,	1
11. US DOT Description (Including Proper Shipping No			4:	12. Cont				14. Unit		
	arro, riazara olas	and ib Number)		Number	Туре	Qua	intity	Wt∕Vol	1. Waste	No.
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15. Special Handling Instructions and Additional Informa	d. ation			1	b.			d.	L	
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SERVICE REQUEST#		4.		SIF	5120	MQ!	)			
16. GENERATOR'S CERTIFICATION: I hereby d	declare that the cor	ntents of this consignment	are fully	and accura	tely doe	ribed abo	wo by pro	Dor object		
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 07/26/02 as described on Hazardous Waste Manifest number NYB9511731 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl

Profile Number: CS9438 CWM Tracking ID: 8156278201

CWM Unit #: 1\*0 Disposal Date: 07/26/02

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 persons who, acting under my direct instructions, made the verification that this infernation is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 232894 07/29/02

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DÍVISION OF SOLID & HAZARDOUS MATERIALS

# HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

in case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

GENERATOR

TRANSPORTER

FACILITY

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4. Generator's Telephone Number (315 \$132-5314			2	SAME	
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 07/26/02 as described on Hazardous Waste Manifest number NYB9511749 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CS9438 CWM Tracking ID: 8156278101

CWM Unit #: 1\*0

Disposal Date: 07/26/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 232893

07/29/02

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212

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	CWM CHEMICAL SERVICES, L.L.C.			1	•		
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	MODEL CITY NY 14107	<u> </u>	670		716 754-	6233	(
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 07/26/02 as described on Hazardous Waste Manifest number NYB9511758 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CS9438 CWM Tracking ID: 8156278801

CWM Unit #: 1\*0 Disposal Date: 07/26/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 232899 07/29/02

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# **HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212

(Hazardous Waste Manifest 5/00)

	UNIFORM HAZARDOUS  1. Generator's WASTE MANIFEST	1	st Doc. No.	2. Pa	•   IIIIOIIIIa	tion within heavy bold line equired by Federal Law.
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-	4. Generator's Telephone Number (315 332-3314 5. Transporter 1 (Company Name)	T 0 110 770 770			Jame .	
1		6. US EPA ID Number				D MC 454411
ŀ	7. Transporter 2 (Company Name)	8. US EPA ID Number	i 71214		ransporter's Teleph	7.1 . 237 7 545 10
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F	Designated Facility Name and Site Address	10. US EPA ID Number			ransporter's Teleph	one ( )
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	11. US DOT Description (Including Proper Shipping Name, Hazard Cl		12. Cont	ainers	13. Total	14. Unit
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	PCB Out of Service Date: " Z HEMTREC Emergency Response Num	129/88057124-930	)	E Co	atract	ENG#171
	ERVICE REQUEST#	0/5%				
	16. GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labeled, and are in all respects in proper and state laws and regulations.	contents of this consignment are full condition for transport by highway acc	y and accura cording to app	ately des plicable	scribed above by printernational and nat	oper shipping name and are tional government regulations
	If I am large quantity generator. I certify that I have a program in place practicable and that I have selected the practicable method of treatment, and the environment; OR if I am a smaller generator, I have made a good to me and that I can afford.					
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-	20. Facility Owner or Operator: Certification of receipt of hazardous ma	terials covered by this manifest exc	ept as note	d in Iter	n 19.	
	20. Facility Owner or Operator: Certification of receipt of hazardous ma Printed/Typed Name	terials covered by this manifest exc	cept as noted	d in Iter	n 19.	Mo Day Yea



CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 07/29/02 as described on Hazardous Waste Manifest number NYB9511767 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CS9438 CWM Tracking ID: 8156290401

CWM Unit #: 1\*0 Disposal Date: 07/29/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES V DIVISION MANAGER Certificate # 233000

07/30/02

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

**HAZARDOUS WASTE MANIFEST** 

In case of emergency or spill immediately çall the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

TRANSPORTER

FACILITY

ase type or print. Do not staple.	P.O. Box 12		y, New Yor	k 1221	2				(Haz	ardous Waste Manifest	5/00)
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's		- L &	nifest Doc.		2. Pag	"	nformat not re	tion withi	in heavy bold line y Federal Law.	j
3. Generator's Name and Mailing Address INLAND FISHER GUIDE ON 1. GENERAL MOTORS DR SYRACUSE MY 13206-14466 4. Generator's Telephone Number (315 163)		<u> </u>	3 14 17 5		, , , ,	A. B. Ge	NYE	95		776	
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classified, packed, marked and labeled, and are in a and state laws and regulations.  If I am large quantity generator. I certify that I have practicable and that I have selected the practicable and the environment; OR if I am a smaller generator to me and that I can afford.	a program in place	to reduce the vo	sport by nighway	of waste	generat	ted to th	nternational	and nati nave de	onal gov	ernment regulations to be economically	s   y
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 07/29/02 as described on Hazardous Waste Manifest number NYB9511776 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CS9438 CWM Tracking ID: 8156290101

CWM Unit #: 1\*0 Disposal Date: 07/29/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 232998
07/30/02

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# DIVISION OF SOLID & HAZARDOUS MATERIALS

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# **HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212

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Hazardous Waste Manifest		•

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's	S US EPA No. - <u>La la la la la la la</u>		t Doc. No	I	ge 1 of			in heavy bol y Federal L	
	3. Generator's Name and Mailing Address LNLAND FISHER GUIDE GM L GENERAL NOTORS OR	<u> </u>		<u> </u>	یک اگیا	A.	NYI		<u> </u>	785	211.
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	5. Transporter 1 (Company Name)	7	6. US EPA ID Number			C. S	State Transp	orter's II	A C	246	" HEA
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	1550 BALMER RD. MODEL CITY NY 14107		NAPONDO	36	<u> </u>		acility Telep		<b>0</b> 231	)	
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

## CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 07/29/02 as described on Hazardous Waste Manifest number NYB9511785 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CS9438 CWM Tracking ID: 8156290801

CWM Unit #: 1\*0 Disposal Date: 07/29/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES **V**DIVISION MANAGER
Certificate # 233002

07/30/02

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212

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	UNIFORM HAZARDOUS WASTE MANIFEST	Generator's		1737	Doc. No.	2. Page 1	millorina		in heavy bold line by Federal Law.
	Generator's Name and Mailing Address	ملطوليا بالخلا	<u> </u>	HD Stor		Δ	<del>}</del>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
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	11. US DOT Description (Including Proper Shipping	<del>_</del>		r)	12. Con Number	ŀ	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
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ł	J. Additional Descriptions for Materials listed Above	······································				K Handlin	g Codes for Wa	etac Lic	and About
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	16. GENERATOR'S CERTIFICATION: I here classified, packed, marked and labeled, and are in a and state laws and regulations.	by declare that the	contents of this con condition for transpo	signment are full ort by highway a∝	y and accurate and accurate and accurate accurate and accurate acc	انده ده اد براه ده			oping name and are vernment regulations
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7	20. Facility Owner or Operator: Certification of receip	ot of hazardous ma	Signature	this manifest exc	ept as note	ed in Item 1	9.	ſ	Mo. Day Year



CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 07/30/02 as described on Hazardous Waste Manifest number NYB9511794 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CS9438 CWM Tracking ID: 8156292101

CWM Unit #: 1\*0 Disposal Date: 07/30/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 233062

07/31/02

# In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

NYB9724248

STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

# P.O. Box 12820, Albany, New York 12212

WASTE MANIFEST	1. Generator's US EPA No. <u>NET 10 010 212 31 913</u>	Manifest Doc. No.	1	IIIIOIIIIa	tion within heavy equired by Federa	bold line I Law.
3. Generator's Name and Mailing Address	* *		Α.	<u> </u>	24248	
I GENERAL MOZURS OR			B. Genera		4440	
SYRACUSE NV 13206-040 4. Generator's Telephone Number (315)43	6 3 41 B 5 5 5		b. Genera			
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7. Transporter 2 (Company Name)	MYDGR	696994		orter's Teleph		
7. Transporter 2 (Company Name)	8. US EPA ID Nu	mber		ransporter's I		articular fr
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1550 BALMER RD.	Refl to 1's A. Co	and the second of the second		Telephone (	•	
MODEL CITY NY 14107		9 6 3 6 6 7		15 754 13. Total	~ 0 Z 3 1 14. Unit	
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15. Special Handling Instructions and Additional Infor			D		d.	
a. PCB Out of Service O	mation   10/17/102	2 5R#_	625	879	2-11	
CHEMTREC Emergency Resp	onse Number (800					<b>.</b>
			8150	6605		
GENERATOR'S CERTIFICATION: I hereb classified, packed, marked and labeled, and are in all and state laws and reculations.	y declare that the contents of this cons	ignment are fully and accu	rately described	above by pr	oper shipping nam	e and are
and state laws and regulations.						
If I am large quantity generator. I certify that I have practicable and that I have selected the practicable mand the environment OB if I am a smaller concentration.						
and the environment; OR if I am a smaller generator, to me and that I can afford.	r nave made a good faith effort to minimiz	e my waste generation and	select the best	vaste manage	ment method that i	s available
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Printed/Typed Name	Signature					
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 10/18/02 as described on Hazardous Waste Manifest number NYB9724248 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002

CWM Tracking ID: 8156660501 CWM Unit #: 1\*0 Disposal Date: 10/18/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 237977 10/21/02

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# In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

NYB9724257

STATE OF NEW YORK **DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS** 

# **HAZARDOUS WASTE MANIFEST**

(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

# P.O. Box 12820, Albany, New York 12212

	WASTE MANIFEST (81 VI 11 O		st Doc. No.				in heavy bold line by Federal Law.
1	Generator's Name and Mailing Address		·	Α.	NVDOZ	0.4.0	\F-7
	INLAND FISHER GUIDE GM 1 GENERAL MOTORS DR SYRACUSE NY 13206-0486 4. Generator's Tetephone Number (315)432-5314			B. 6	NYB97 Generator's ID SAME	242	25 /
	Transporter 1 (Company Name)	6. US EPA ID Number		C. S		D 47	5087 NY
ļ	Page E.T.C. Inc.	<u>  W,Y,D,9,8,6,9,69</u>	797				900 1233212E
ı	7. Transporter 2 (Company Name)	8. US EPA ID Number		E. 5	State Transporter's I	D	
ļ	0.0			F. T	ransporter's Teleph	one (	)
Į	Designated Facility Name and Site Address	10. US EPA ID Number		G. 5	State Facility ID		
	CWM CHEMICAL SERVICES, L.L.C.						
ļ	1550 BALMER RD.				acility Telephone (		)
ŀ	MODEL CITY NY 14107	M Y D O 4 9 8 3 6	12. Cont		716 754	7	
İ	11. US DOT Description (Including Proper Shipping Name, Hazard	d Class and ID Number)	1		13. Total	14. Unit	
r	a	<del></del>	Number	Туре	Quantity ES7	Wt/Vol	I. Waste No. EPA
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	b.		1 1 1 1 1	U 14		1.	EPA
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İ	J. Additional Descriptions for Materials listed Above	· · · · · · · · · · · · · · · · · · ·		K. Har	ndling Codes for Wa	stes List	ted Ahove
ı	a CP2002-PC8 SOIL						
ŀ	а. С.	<u></u>	<u> </u>	a.		c.	
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	15. Special Handling Instructions and Additional Information 8. PCB UNL OF Service Date:	10/31/02	ស្នង	10	6 Mobile	- J	
	CHENTREC Emergency Response N	umoer (600)424-90	OO Wr	8	567462	<b>5</b> ERG	i#171
	<ol> <li>GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labeled, and are in all respects in property of the laws and regulations.</li> </ol>	ne contents of this consignment are full per condition for transport by highway ac	y and accura cording to ap	ately de: plicable	scribed above by pri international and nat	oper ship ional gov	ping name and are ernment regulations
	If I am large quantity generator, I certify that I have a program in bi	ace to reduce the volume and toxicity of	wasto gonor	ated to	lho dooroo I have de		14- 6
	practicable and that I have selected the practicable method of treatm and the environment; OR if I am a smaller generator, I have made a g						
ļ	to me and that I can afford.  Printed/Typed Name			SIOUT THE	, poor maste manage	ment me	anou triat is available
	Edwar B. Raha for James & F. Hey tur	H Signature Edwin B	Polis	1/		ı	Mo. Day Year
╁	17. Transporter 1 Acknowledgement of Receipt of Materials	· · · · · · · · · · · · · · · · · · ·	EMINA	V Salar	·		NINGE
┊┞	Printed/Typed Name	Signaturg	<u> </u>		<del></del>		Ma Day Vari
	John E Van Valkenbusch	The state of the s	A STATE OF THE STA				Mo. Day Year
2	18. Transporter 2 Acknowledgement of Receipt of Materials		<i>V 0</i> /				1 2 7
1	Printed/Typed Name	Signature				I	Mo. Day Year
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<u>;</u>	20. Facility Owner or Operator: Certification of receipt of hazardous	materials covered by this	·	al 1 P		_	
	Composition of operator, ocrunication of receipt of nazardous	manerials convered by this monitors by	IODI DO BOTO	~ .~ !! ~-			
:  -	Printed/Typed Name	Signature Signature	epi as note	a in iter	п 19. ——————		Mo. Day Year





CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

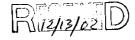
CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 11/01/02 as described on Hazardous Waste Manifest number NYB9724257 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8156740201

CWM Unit #: 1\*0 Disposal Date: 11/01/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 238882 11/04/02



# NYB9724266 Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

### DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**



# P.O. Box 12820, Albany, New York 12212

	UNIFORM HAZARDOUS 1. Generators 0 WASTE MANIFEST 関目 1. Benerators 0	JS EPA NO. <u>김기의 제계제</u>	•	t Doc. No. : 7: 9: /	2. Page 1 c	morne		n heavy bold line / Federal Law.	
	Generator's Name and Mailing Address     I ML AMD FISHER GUIDE GO     GENERAL MOTORS DR		<u> </u>		а. N`	YB97	242	66	
	5YRACUSE NY 13206-0486 4. Generator's Telephone Number (315)432-5314		B. Generator's ID						
	5. Transporter 1 (Company Name)	6. US EPA ID Number				ransporter's	ID 12	90 R 7 83 0	
	Fage F.T. C. Inc.  7. Transporter 2 (Company Name)	MY1D981613	9,69	94.7		orter's Telepi		80B7-NY 3001332126	
	7. Transporter 2 (Company Name)	8. US EPA ID Number			E. State Transporter's ID				
	Designated Facility Name and Site Address	10. US EPA ID Numbe	سللي		F. Transporter's Telephone ( )				
		TO. OS EFA ID NUMBE	r		G. State F	acility ID		<b>[</b>	
	CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD.				H. Facility	Telephone		)	
	MODEL CITY NY 14107	MYDOGETH	8 3 6	6 7 9	-	6 754		1.	
	11. US DOT Description (Including Proper Shipping Name, Hazard Cla	ss and ID Number)		12. Cont	i	13. Total	14. Unit		
	а,			Number	Туре	Quantity	Wt/Vol	I. Waste No. EPA	
	RO. POLYCHLORINATED BIPHENY SOLID MIXTURE, 9, UN2315, 111	ald y			,	F57,			
				VIVIT	018 30	0000	14.	STATE BOO7	
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	J. Additional Descriptions for Materials listed Above	<del> </del>	_		K. Handling	Codes for W	astes Liste	ed Above	
	a CP2002-PCB SULL					i.			
		····		<u> </u>	a.		C.		
	b.   •   • d				<b>h</b>				
	15. Special Handling Instructions and Additional Information	1 . 1		, ,			I d.		
		0/31/02			1210				
	CHENTREC Emergency Response Num	ber (800 m	24 -93	OO AM	Cont	tract	ERG	#171	
	10. GENERATOR'S CERTIFICATION: I hereby declare that the o	antante of this consiseers							
	and state laws and regulations.	ondition for transport by his	дпwау асс	ording to app	olicable interna	itional and na	tional gove	rnment regulations	
	If I am large quantity generator. I certify that I have a program in place to practicable and that I have selected the practicable method of treatment, and the environment OB II am a smeller represent I have need a period.								
	and the environment; OR if I am a smaller generator, I have made a good to me and that I can afford.	aith effort to minimize my v	vaste gene	ration and se	elect the best y	vaste manage	ement meth	nod that is available	
	Printed/Typed Name Edwin B. Reghn for James F. Heartnett	Signature 🔑	, 4	10	·		М	io. Day Year	
Н	17. Transporter 1 Acknowledgement of Receipt of Materials	Edwa	n /1	defin	<i>)</i>		/	03/02	
EH	Printed/Typed Name	Signature			<del></del>			lo Deu You	
ORT	Jan JANKSMAN	[		7			M 1 Z	lo. Day Year	
TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				· _			1 1 1 1 1 1 1 1 1 1 1	
≝	Printed/Typed Name	Signature					М	o. Day Year	
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,	art Roc 27932K								
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous mate	winds nowered by the	-:f- c+						
Æ	Printed/Typed Name	Signature .	nitest exce	pt as noted	ı ın item 19.	<del></del>		o. Day Year	
	Michelle Heal	Michal	Q i	Fia	1		. "/	7.87.82	



CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

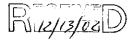
CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 11/01/02 as described on Hazardous Waste Manifest number NYB9724266 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8156740101

CWM Unit #: 1\*0 Disposal Date: 11/01/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 238881
11/04/02



STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# P.O. Box 12820, Albany, New York 12212

	CHMI
(Hazardous Waste Man	ifest 5/00)

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA 왕보다(아이고)	12	ifest Doc. No.	2. Page 1 of	I momen		n within heavy bold line uired by Federal Law,							
	Generator's Name and Mailing Address INLAND FISHER GUIDE GM					B97	242	75	5						
	1 GENERAL MOTORS DR SYRACUSE NY 13206-048	B. Generate		<u> </u>											
	4. Generator's Telephone Number (315)432-5314  5. Transporter 1 (Company Name)  6. US EPA ID Number  7. 7. 7. 2. 3. 1. 4					ansporter's H		57653 7161684							
	7. Transporter 2 (Company Name)		EPA ID Number	1, 1, 1,	E. State Transporter's ID										
ŀ	Designated Facility Name and Site Address	10. <b>U</b> S	EPA ID Number	<u> </u>	F. Transporter's Telephone ( ) G. State Facility ID										
	CWM CHEMICAL SERVICES. 1550 BALMER RD.		H. Facility Telephone (												
ļ	MODEL CITY NY 14107	₩ ¥1	阿伯科智數的	71	l										
	11. US DOT Description (Including Proper Shipping	Name, Hazard Class and I	ss and ID Number)			3. Total	14. Unit								
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	b.			0 10 13	12) 1 1 1	<u>                                     </u>		<u>8007</u> EPA	<u>_</u>						
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	d.			<del>                                     </del>	1	1_1_1_		STATE EPA							
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l	J. Additional Descriptions for Materials listed Above		K. Handling C	ed Above	·										
l	a CF2002-PCB SOIL	c.	. 1	<b>•</b> 1	a.	L,	c.								
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ļ	b. 15 Special Handling Instructions and Additional Info	d.		•	b.	<u> </u>	d.								
	15. Special Handling Instructions and Additional Information  a. PCB Out of Service Date: 11/23 SR# 6600645-3  CHEMTREC Emergency Response Number (800)424-9300 MMI Contract ERG#171  8/56749/  16. 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														
									ations						
	If I am large quentity generator. I certify that I have practicable and that I have selected the practicable re and the environment; OR if I am a smaller generator to me and that I can afford.	method of treatment, storage <i>a</i>	or disposal currently avai	ilahle to me whic	h minimizae the	precent and	future the	est to human h	haalih						
	Printed/Typed Name		ture		and the second	· .	 N	vlo. Day	Year						
٦	17. Transporter 1 Acknowledgement of Receipt of M	aterials	1.		11		1		<u> </u>						
Chien	Printed/Typed Name	Signa	ature of last of	THURSON OF	// ·		N 	Mo. Day	Year						
	18. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name	aterials Signa	ature					Mo. Day	Year						
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	19. Discrepancy Indication Space  (Utilial Rical \$ -	23723K	,				•	<u>, , , , , , , , , , , , , , , , , , , </u>	•						
2	20. Facility Owner or Operator: Certification of receip		overed by this manifest	except as note	d in Item 19.										
	Printed/Typed Name/	Signa	aturé)	Cu	Elec		      1se <sup></sup>	yo. Day	Year						



CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 11/04/02 as described on Hazardous Waste Manifest number NYB9724275 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

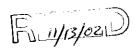
Profile Number: CP2002 CWM Tracking ID: 8156749101

CWM Unit #: 1\*0 Disposal Date: 11/04/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 239003

11/05/02



# STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

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ease type or print. Do not staple.	P.O. DOX 12020	u, Albany, New	YORK 1	2212			(Haz	ardous Waste Manifest 5/00)			
UNIFORM HAZARDOUS WASTE MANIFEST	Generator's US	EPA No. 1 기 의 역 제 제 회		Doc. No.	2. Page	IIIIOIIIIa		n heavy bold line y Federal Law.			
3. Generator's Name and Mailing Address  INLAME PESHER GOLDE GR 1 GENERAL MOTORS DR		1 21 11 11 14 14 1		9 ·   -   em	A.	NYB97	242	284			
5 YRACUSE NY 13206 - 0시간 4. Generator's Telephone Number ( 315) 또	32-5314	/ / / / / / / / / / / / / / / / / / /				B. Generator's ID					
5. Transporter 1 (Company Name) Frank's Vacuum Truck	Service N	US EPA ID Number	811.14	ate Transporter's li insporter's Teleph	e Transporter's ID AD 769004Y sporter's Telephone (7/6) 294-363						
7. Transporter 2 (Company Name)	8.	8. US EPA ID Number  1 1 1				E. State Transporter's ID  F. Transporter's Telephone ( )					
9. Designated Facility Name and Site Address  CWD CHEMICAL SERVICES.						G. State Facility ID					
1550 BALMER RD. MODEL CITY NY 14107		M श श श श श श श श श श श श श श									
11. US DOT Description (Including Proper Shipping	g Name, Hazard Class	and ID Number)		12. Conta		Quantity	14. Unit Wt/Vol	I. Waste No. EPA			
RQ, POLYCHLORINATEUS SOLLD MIXTURE, 9, UN	BIPHENYLS	LS,		01011		400+19		STATE BOO7 EPA			
					I			STATE			
c.						-		EPA STATE			
d.								EPA :			
Additional Description (a Metallic Pol. 14)								STATE			
J. Additional Descriptions for Materials listed Above  a. CP2002-PCB SOTE	<del>)</del> 1 C.		ī <b>A</b>		K. Hand a.	ling Codes for Wa	stes List I c.	ed Above			
			<u></u>	J	_						
b.  15. Special Handling Instructions and Additional Info	111.	/4.2			b.		d.				
a. PCH Out of Service Date:  CHEMTREC Emergency Response Number (800) 424 9300 WII Contract ERG#171  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government related to the degree I have determined to be economicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to huma and the environment; OR if I am a smaller generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is to me and that I can afford.							S#171				
							ping name and are				
							to be economically				
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of N	Dett .	Signature	1/- /_	- Andrews				Mo. Day Year			
Printed/Typed Name	ILIRA "	Signature			W	LAC	N 	Mo. Day Year			
18. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name	<del></del>	Signature	,		<u> </u>	<del></del>		Mo. Day Year			
19. Discrepancy Indication Space	20/67		_				l				
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest  Printed/Typed Name  Signature 7					d in Item	19.					
EILEUVCARTON	16	r Ti	1		, ,/	Mo. Day Year					





CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

## CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 11/04/02 as described on Hazardous Waste Manifest number NYB9724284 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8156749201

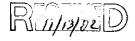
CWM Unit #: 1\*0 Disposal Date: 11/04/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 239004 11/05/02

our Customer Service Dept. at (800) 843-3604

For questions please call



# STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

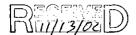
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In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

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	Generator's Name and Mailing Address	<u> </u>					Δ						
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	THEMTREC Emergency Response Number (800)424-9300 WM Contract ERG#171												
	16. 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 and state laws and regulations.												
If I am large quantity generator. I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have d practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and the environment; OR if I am a smaller generator, I have made a good faith effort to minimize my waste generation and select the best waste manage to me and that I can afford.													
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	19. Discrepancy, Indication Space	30473	K					•		,			
Ì	20. Facility Owner or Operator: Certification of receip	D. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
	Printed/Typed Name		Signature Q 9	- i	Jan 1	الموت ا		N.	Mp. Day/	Year			





CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 11/04/02 as described on Hazardous Waste Manifest number NYB9724293 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

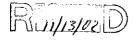
Profile Number: CP2002 CWM Tracking ID: 8156749501 CWM Unit #: 1\*0

Disposal Date: 11/04/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 239007

11/05/02



In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

## STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DÍVISÍON OF SOLID & HAZARDOUS MATERIALS



Please type or print. Do not staple.

HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's l		1	Doc. No.	2. Pag	' '			n heavy bold line y Federal Law.
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 11/04/02 as described on Hazardous Waste Manifest number NYB9724302 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

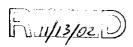
Profile Number: CP2002 CWM Tracking ID: 8156747501

CWM Unit #: 1\*0 Disposal Date: 11/04/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 238991

11/05/02



NYB9724311
Please type or print. Do not staple.

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

## HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

(Hazardous Waste Manifest 5/00)

		Generator's US EPA No.			2. Page 1 o	IIIIOIIIIai		n heavy bold line y Federal Law.
	3. Generator's Name and Mailing Address  INLAND FISHER GUIDE GM I CENERAL MOTORS DR		21 - 78 - 1 - 1		<sup>A.</sup> N`	B972	243	11
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ŀ	<ul> <li>4. Generator's Telephone Number (315)432-5</li> <li>5. Transporter 1 (Company Name)</li> </ul>	6. US EPA ID	Number		SA S Charles		10	75889-NY
	Buttal Fuel Corp.	1 4 4	00045	724				100 / 1/202
ŀ	7. Transporter 2 (Company Name)	8. US EPA ID	Number	[ <u> </u>		ransporter's II		Star Jr. of P. C. Martin
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	Designated Facility Name and Site Address	10. US EPA II	) Number	· · · . · · · · · · · · · · · · · ·	G. State F	acility ID		
	CUM CHEMICAL SERVICES, L.	£ . C.						
	1550 BALMER RD. MODEL CITY NY 14107	N <sub>1</sub> Y <sub>1</sub> D <sub>1</sub> O <sub>1</sub>	<u>4 9 8 3 6</u>	[6]7]9	H. Facility	) i		
	11. US DOT Description (Including Proper Shipping Name	e, Hazard Class and ID Num	lass and ID Number)				14. Unit	
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ŀ	16. GENERATOR'S CERTIFICATION: I hereby decidesified, packed, marked and labeled, and are in all responses.	are that the contents of this of	onsignment are full	v and accur	ately describe	d about by pr	opor chin	pring name and are
	and state laws and regulations.  If I am large quantity generator, I certify that I have a propracticable and that I have selected the practicable method and the environment; OR if I am a smaller generator, I have	of treatment, storage, or dispo	sal currently availabl	e to me whic	h minimizas tl	ne present and	future the	eat to human health
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/03/02 as described on Hazardous Waste Manifest number NYB9724311 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8156860401

CWM Unit #: 1\*0 Disposal Date: 12/03/02

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.

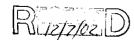
2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that

this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 240507

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12/04/02



NYB9724329

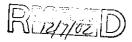
STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

WASTE MANIFEST		O CFA INU.			z. Page	IIIIOIIIIA		in heavy bold line y Federal Law.
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

## CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/03/02 as described on Hazardous Waste Manifest number NYB9724329 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

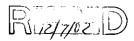
Profile Number: CP2002 CWM Tracking ID: 8156860201 CWM Unit #: 1\*0

Disposal Date: 12/03/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES()
DIVISION MANAGER
Certificate # 240505

12/04/02



NYB9724338

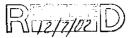
STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US		Manifest Doc. No. $O_1O_17_19_18$	2. Page 1 of	miloninai		n heavy bold line / Federal Law.
3. Generator's Name and Mailing Address INLAND FISHER GUIDE GM		, grand of the control of the contro		<sup>A</sup> NY	B972	243	38
1 GENERAL MOTORS DR SYRACUSE NY 13206-048 4. Generator's Telephone Number (315)43				B. Generat			
Transporter 1. (Company Name)	impere 6	6. US EPA ID Number	18 109 100 1 100	C. State Tra	insporter's IC		ZO 1A-NY
1. S. Bulk Transport 7. Transporter 2 (Company Name)		$\frac{PADSRJS}{S}$ . US EPA ID Number	7/1/2/1/2	<b>!</b>	ter's Telepho insporter's II		(14)824774)
Designated Facility Name and Site Address		I I I I I I I I I I I I I I I I I I I		<del>1</del>	ter's Telepho	one (	)
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1550 BALMER RD. MODEL CITY NY 14197		<u> </u>	315161719	H. Facility	elephone ( 6 754	-623	) i
11. US DOT Description (Including Proper Shipping			12. Cont Number	ainers 1	3. Total	14. Unit	
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SOLID MIXTURE, 9, UN2	315,111		01011	013/		ĸ	STATE BOO7
b				1.0			EPA
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J. Additional Descriptions for Materials listed Above	•			K. Handling (	Odes for Wa	ıstes List	ed Above
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b. j • ]  15. Special Handling Instructions and Additional Info	rmation	2/2/22	<del></del>	[b.	<u> </u>	d. ***	
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

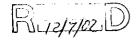
CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/03/02 as described on Hazardous Waste Manifest number NYB9724338 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8156859101 CWM Unit #: 1\*0

Disposal Date: 12/03/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 240496
12/04/02



NYB9724347

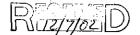
STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

## **HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212



Please type or print. Do not staple.

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's	US EPA No. 1-21 건 31 역 점 5		st Doc. No.	2. Pag	IIIIOIIIIa		in heavy bold line y Federal Law.		
	3. Generator's Name and Mailing Address	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> 17 전 21 24 전 5월 5</u>	<u> </u>	1/1//	Α.		<u> </u>			
	INLAND FISHER CUIDE CM 1 GENERAL MOTORS DR 5YRACUSE NY 13206-048 4 Generator's Telephone Number (315)43	6	per.		:		NYB97 enerator's ID SAME	243	347		
	5. Transporter 1 (Company Name) W. S. Bulk Transport	Inc	6. US EPA ID Numb $P_1 A_1 D_1 \ 9 \ 8_1 3$	1347	5115	C. SI			94114.NY 81418249997		
	7. Transporter 2 (Company Name)		8. US EPA ID Númb	er			tate Transporter's I				
	9. Designated Facility Name and Site Address  CUM CHEMICAL SERVICES.	1 f 2 5	10. US EPA ID Num	ber	1	F. Transporter's Telephone ( )  G. State Facility ID					
	1550 BALMER RD.  MODEL CITY NY 14107	Bar o Bar is Partie	Ny Dougs	માં છે. ઉપાઇ	ரன் 7ட 9	H. Facility Telephone ( ) 716 754-8231					
	11. US DOT Description (Including Proper Shipping	Name, Hazard Cl	azard Class and ID Number)  12. Contain Number   Ty				13. Total	14. Unit			
	a.						Quantity  EST.	Wt/Vol	I. Waste No. EPA		
	RQ, POLYCHLORINATED SOLID MIXTURE,9,UN2	315,177			01011	DIT	30,0,00	K	STATE BOO7 EPA		
GENERATOR						_1	1 1 1 (		STATE		
GENE	<b>c.</b>						-		EPA STATE		
	d.		<u> </u>						EPA		
									STATE		
	J. Additional Descriptions for Materials listed Above				<del></del>	K. Han	dling Codes for Wa	stes List	led Above		
	a. CP2002-PCB SUIL	c.			<u> </u>	a.	l.	C.			
	b. 1 • 1	ı d.	-		• 1	b.		l d			
	15. Special Handling Instructions and Additional Info a. PCB Out of Service (	rmation	2/2/02	t	SRM	10	63866	4/			
	CHEMTREC Emergency Kest		1 1					£RC	#171		
	<ol> <li>GENERATOR'S CERTIFICATION: ! heret classified, packed, marked and labeled, and are in a and state laws and regulations.</li> </ol>	by declare that the Il respects in proper	contents of this consign condition for transport by	ment are full y highway acc	y and accura cording to ap	ately des plicable i	oribad about by pr	onar abia	ning name and ac-		
	If I am large quantity generator, I certify that I have practicable and that I have selected the practicable r and the environment; OR if I am a smaller generator, to me and that I can afford.	nethod of freatment.	- Stotage of disposal curi	rentiv avaitabl	la to ma whic	h minimi	you the present and	full iro the	and to buseness bands by		
	Printed/Typed Name  Edwin B. Kadn for James F.  17. Transporter 1 Acknowledgement of Receipt of M.	Hartnett aterials	Signature	liver i	BRa	And	(	l <i>4</i>	Mo. Day Year /レスロスロス		
ITER	Printed/Typed Name		Signature	, N = 0		<u></u>			Mo. Day Year		
TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of M	aterials	The same of the sa		Magazini a		·····		12,92,92		
TRA	Printed/Typed Name		Signature						Mo. Day Year		
Ţ	19. Discrepancy Indication Space	2908	PSK		<del>-</del>				<u> </u>		
FACILITY	20. Facility Owner or Operator: Certification of receip	ot of hazardous ma				d in Item	n <b>1</b> 9.				
	Printed/Typed Name	and the second s	Signature		Pa :		`>'~	- 1	Mo. Day Year		





CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/03/02 as described on Hazardous Waste Manifest number NYB9724347 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

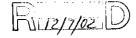
Profile Number: CP2002 CWM Tracking ID: 8156860001

CWM Unit #: 1\*0 Disposal Date: 12/03/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 240503 12/04/02

relient & muy



NYB9724356
Please type or print. Do not staple.

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

## HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

**S** contraction

Fox 12820, Albany, New York 12212 (Hazardous Waste Manifest 5/00)

	1. Generator's U	S EPA No. <u>21 월 명 과 제 </u>	Manifest $OO_1$	$\mathcal{S}_1\mathcal{O}_1$	o.   2. F <i>O</i>	age 1 of	l		n heavy bold line y Federal Law.
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INLAND FISHER GUIDE GM I GENERAL MOTORS DR					B.	Generato			
SYNACUSE NY 13206-0486 4. Generator's Telephone Number (315)832	-5314	•			1	SAM	F		
5. Transporter 1 (Company Name)		6. US EPA ID Number	2111	61	<u>.</u>				65278 NY
7. Transporter 2 (Company Name)		2 A D 9 8 7 2 8. US EPA ID Number	$2 Y_1/$	$\mathcal{I}_{I}$		<del>_</del>	ter's Telepho nsporter's II		314\824999)
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Designated Facility Name and Site Address		10. US EPA ID Number	<u> </u>	l	G.	State Fa	citity ID		
CWM CHEMICAL SERVICES,	Latitle 1				<u> </u>	Fa -: IIIb - T	-laubana (		
1550 BALMER RD. MODEL CITY NY 14107		N <sub>1</sub> Y <sub>1</sub> (3 <sub>1</sub> O <sub>1</sub> 4 <sub>1</sub> 9 <sub>1</sub> (	<u> 3<sub>1</sub> 3<sub>1</sub> 6</u>	6 7		-	elephone ( 5 754	-823	i
11. US DOT Description (Including Proper Shipping N	lame, Hazard Clas	ss and ID Number)		l	ontainer		3. Total	14. Unit	
a.			<del></del>	Numb	er Typ		uantity	Wt/Vol	I. Waste No. EPA
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b.				<u>ाठा</u>	101	3 5 C	1990	K	D007
b.									EPA
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C.									EPA
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J. Additional Descriptions for Materials listed Above				لــلــا	K. F	landling C	odes for Wa	l stes List	ed Above
a CP2002-FCB SUIL	, с.		ı	<b>.</b> .	a.		l.	c.	
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b	ı d.			<u> </u>	Ь.			d.	
15. Special Handling Instructions and Additional Information PCH Out of Service De	nation	2/2/02		Q 22 H	,	10/03	8.lal	ا بدد دد	
CHEMTREC Emergency Responses		1 1							#171
						815	CO 95	96	
16. GENERATOR'S CERTIFICATION: I hereby classified, packed, marked and labeled, and are in all and state laws and regulations.	declare that the crespects in proper of	ontents of this consignme ondition for transport by h	ent are full ighway ac	y and according to	curatel <u>y</u> applical	described ole internat	above by pr ional and nat	oper ship ional gov	ping name and are ernment regulations
If I am large quantity generator, I certify that I have a practicable and that I have selected the practicable me									
and the environment; OR if I am a smaller generator, I to me and that I can afford.	have made a good	faith effort to minimize my	waste gen	eration a	nd select	the best w	aste manage	ment me	thod that is available
Printed Typed Name Edwin B. Rahn for James F.	Hartnett	Signature	Win	R	Pal	Bus 1			Mo. Day Year
17. Transporter 1 Acknowledgement of Receipt of Mat			Entrar bi	و حسور چن	12.75	6 7 1			. 6 4 - 14 -
Printed/Typed Name		Signature		,	,				Mo. Day Year
18. Transporter 2 Acknowledgement of Receipt of Mat	erials	1 Remain	. h	· (d)	Bruzez	<u> </u>			120202
Printed/Typed Name	-	Signature	·		<del></del>	$\bigcirc$			Mo. Day Year
									<u> </u>
19. Discrepancy Indication Space	ر راس	/							
arture Reck 3	3/2/7K								
20. Facility Owner or Operator: Certification of receipt		<del>,</del>	anifest ex	cept as r	noted in	Item 19.			
Printed/Typed Name EILLED CARTON	ا تعلید	Signature	- (	a	212	 - (		4	Mo. Day Year





CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/03/02 as described on Hazardous Waste Manifest number NYB9724356 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8156859601

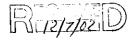
CWM Unit #: 1\*0 Disposal Date: 12/03/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES / DIVISION MANAGER Certificate # 240501

relieved muy

12/04/02



NYB9724365

STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

## **HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212



Please type or print. Do not staple.

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's		_	t Doc. No.	2. Page	miloimal		in heavy bold line			
ŀ	3. Generator's Name and Mailing Address	<u> MEYLDLOLO</u>	121213191	षा षा ।।।।।।	801	Α	is not re	quireu b	y Federal Law.			
	INLAND FISHER GUIDE GM I GENERAL MOTURS DR SYRACUSE NY 13206-048	6		,			VYB972 erator's ID	243	365			
ļ	4. Generator's Telephone Number ( 🗦 🏗 ) 👯	12-5314	· ·		<u> </u>	SAME						
	5. Transporter 1 (Company Name)	d have	6. US EPA ID I		oper s sp	C. State Transporter's ID A E 53089- N						
	U.S. Bulk Transpor	Loc.		<u> 37347</u>	<u> (2/5</u>							
į	7. Transporter 2 (Company Name)		8. US EPA ID I	Number			e Transporter's II					
	Designated Facility Name and Site Address		10. US EPA ID	Number			sporter's Telepho	one (	)			
			10. 00 2.7712	TTGTTDCT	:	G. State Facility ID						
	CWM CHEMICAL SERVICES, 1550 BALMER RD.	l			H. Facility Telephone ( )							
	MODEL CITY NY 14107	NYDO	4 9 8 3 6	161719		716 754	-023	1				
	11. US DOT Description (Including Proper Shipping			12. Cont			14. Unit					
				<del></del>	Number	Туре	Quantity	Wt/Vol	I. Waste No.			
	RQ. POLYCHLORIWATED SOLLD MIXTURE, 9, UN2	BIPHENY	L.S.,				E 57		ĒPA			
	SOLID MIXTURE, 9, UN2	1315,111			45.75.8	4°2. 0°	30000	1£	STATE DOO''			
	b.	<del></del> ;	-		01011	17 1	BUNDA	K	BOO7 EPA			
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	a. 								EPA			
	Magazini (		1						STATE			
	J. Additional Descriptions for Materials listed Above	)				K. Handli	ng Codes for Wa	L stes Lis	ted Above			
	a. CP2002-PCB SOH.	с.			<u>•                                      </u>	a.	Į,	C.				
			, te				[]					
ļ	b. 15. Special Handling Instructions and Additional Info	d.			<u>•                                      </u>	b.		d.				
ļ	a. PCB Out of Service 1	Jate:	12/2/0				103810					
	CHEMTREC Emergency Res	onse Nu	mbér (80	0)424-93	100 W	M Co			14171 PloOl			
	<ol> <li>GENERATOR'S CERTIFICATION: I here classified, packed, marked and labeled, and are in a and state laws and regulations.</li> </ol>	by declare that the all respects in proper	contents of this co r condition for transp	onsignment are full port by highway acc	y and accur cording to ap	ately descr plicable int	ihad ahova hv nr	nnar ehir	nning name and are			
	If I am large quantity generator, I certify that I have practicable and that I have selected the practicable and the environment; OR if I am a smaller generator	nethod of treatment	, storage, or dispos	al currently availabl	e to me whic	h minimize	s the present and	future th	reat to human health			
	to me and that I can afford.		·	mize my waste gen	eration and s	elect the bi	est waste manage		anou trat is available			
	Printed/Typed Name	r 11 4 4	Signature	Cont. "	20	0.	,		Mo. Day Year			
	17. Transporter 1 Acknowledgement of Receipt of M	F. Heatnet	[/]	www	13KG	MAN			140202			
<u>س</u>	Printed/Typed Name	ateriais	Signature	. 11	4/	· <del>· · · · · · ·</del>			Mo. Day Year			
ė E	JACK KNAPT		1 Qual	My	Man James				120202			
TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of M	aterials	1064	2 7 1 237					2   W   V   V   V			
₽	Printed/Typed Name		Signature						Mo. Day Year			
	19. Discrepancy Indication Space		<i>)</i>	**.								
≱	antiel Pond	30500	0K									
FACILITY	20. Facility Owner or Operator: Certification of receip	ot of hazardous ma	aterials covered by	/ this manifest exc	cept as note	d in Item	19.	· · · · · · ·				
Ľ	Printed/Typed Name		Signature (2)	4 4	1 11-10	1			Mo. Day Year			
	EILLEW CART		1 C	elle	Name of the Party	Cal	Elle	<u> </u>	13930			





CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

## CERTIFICATE OF DISPOSAL

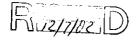
CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/03/02 as described on Hazardous Waste Manifest number NYB9724365 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8156860101

CWM Unit #: 1\*0 Disposal Date: 12/03/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 240504
12/04/02



STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# P.O. Box 12820, Albany, New York 12212

(WM)

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's	US EPA No. <u>  24 24 31 91 4</u>	$-1 \wedge \nu$	it Doc. No. $80/2$	2. Page 1 o	Intoma		in heavy bold line y Federal Law.			
	Generator's Name and Mailing Address	<del>- \$31 - [ 1 - <b>[</b> 11 - <b>[</b> 12 - <b>]</b> 1 - <del>[</del> 2</del>	<del>                                      </del>	1 191 (1) ex 1	1 - 1 - 1 - 4	Δ	B97	2/13	7/			
	IMLAND FISHER GUIDE GM I GENERAL MOTORS DR					B. Genera		<u> </u>	7/4			
	SYRACUSE NY 13206-0486 4. Generator's Telephone Number (315)43					SA:						
1	5. Transporter 1 (Company Name)  U. S. BUIK Transport	Tas	6. US EPAID N		E 1 e	C. State T	ansporter's I		58336.NY			
-	7. Transporter 2 (Company Name)	J. M	$P_1 N_1 D_1 9_1 S$	ا <mark>لا إحساسا</mark> Jmber	12/2		orter's Teleph ansporter's l		314\8297997			
				1. 1 1 1	1 1 1	i	orter's Teleph		)			
	Designated Facility Name and Site Address		10. US EPA ID N	lumber		G. State Facility ID						
	CWM CHEMICAL SERVICES, 1550 BALMER RD.	L.L.C.	1			H. Facility	Telephone (		·			
	MUDEL CITY NY 14107		N Y D O H	19181316	6 7 9		6 754		1			
	11. US DOT Description (Including Proper Shipping	Name, Hazard Cl	ass and ID Numbe	r)	2. Cont		13. Total	14. Unit				
İ	a. EVA CHIA VANGO CARA NA ANCIEN	Yi Yi Cadilik 16032	) E*		Number	iype	Quantity	Wt/Vol	I. Waste No. EPA			
1	RQ, POLYCHLORINATED SOLID MIXTURE, 9, UN2	315,111	LeO g			ر ا	£57.		STATE			
ŀ	b.				01011	011 2	7000	K	B007 EPA			
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	d.			-					EPA			
									STATE			
İ	J. Additional Descriptions for Materials listed Above				<u> </u>	K. Handling	Ood <u>es for</u> Wa	stes List	ed Above			
	a CP2002-PCB SOIL	<sub>1</sub> C.		1	à i	a.	Ł	I c.				
	v.				<del></del>							
	b.	d.			<b>•</b> I	b.		d.				
	15. Special Handling Instructions and Additional Infor a. PCB Out of Service D	mation ratio	12/2/02		<b>以投資</b>	663	866	- 7				
	CHEMTREC Emergency Resp		, ,									
						J.	15684	06				
	<ol> <li>GENERATOR'S CERTIFICATION: I hereb classified, packed, marked and labeled, and are in all and state laws and requisitions.</li> </ol>	y declare that the Frespects in proper	contents of this con condition for transpo	signment are full rt by highway acc	y and accura				ping name and are ernment regulations			
	If I am large quantity generator, I certify that I have	a program in place	to reduce the volum	e and tovicity of	wasta ganar	» ntad ta tha da						
	practicable and that I have selected the practicable m and the environment; OR if I am a smaller generator, to me and that I can afford.											
Ì	Printed/Typed Name	16 1 1	Signature	2, . 7	00		<u> </u>		Mo. Day Year			
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2	18. Transporter 2 Acknowledgement of Receipt of Ma Printed/Typed Name	terials	Signature	·								
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2	20. Facility Owner or Operator: Certification of receipt			his manifest exc	ept as note	d in Item 19.		<del></del>				
	Printed/Typed Name CILEU CAUTIN		Signature	. Don	13	. a. 1		· · · · · · · · · · · · · · · · · · ·	Mo. Day Year			
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COPY 5-GENERATOR - MAILED BY TSD FACILITY



CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/03/02 as described on Hazardous Waste Manifest number NYB9724374 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

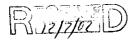
Profile Number: CP2002 CWM Tracking ID: 8156860601

CWM Unit #: 1\*0
Disposal Date: 12/03/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 240509

12/04/02



# STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION OF SOLID & HAZARDOUS MATERIALS



# HAZARDOUS WASTE MANIESST

se type or print. Do not staple.		20, Albany, New Yor			ir •	(Haz	ardous Waste Manifest 5/00)
UNIFORM HAZARDOUS	1. Generator's l	JS EPA No. Ma	nifest Doc. No.	2. Pag	- I mioima	ion withi	in heavy bold line
WASTE MANIFEST  3. Generator's Name and Mailing Address	<u>आ शिक्षकार</u> ा	<u>शतामामा प्र</u>	10181013		į is not re	quired b	y Federal Law.
INLAND FISHER GUIDE CM I GENERAL MOTORS DE SYRACUSE NY 13206-046	€v			A. B. G	NYB972 enerator's ID	243	383
<ul> <li>4. Generator's Telephone Number ( 31%) 43</li> <li>5. Transporter 1 (Company Name)</li> </ul>	1Z-5314	, ( )			SAME	4 14	
and the same and t		6. US EPA ID Number	1577311				16043 NY
7. Transporter 2 (Company Name)	·	<u> </u>	<u>121/1417</u>		ansporter's Telepho		3006778002
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9. Designated Facility Name and Site Address		10. US EPA ID Number		1	ansporter's Telepho tate Facility ID	me (	
CWM CHEMICAL SERVICES,	4 4 4 4			J	tato racinty 15		
1550 BALMER RD. MODEL CITY NY 14107	63 6 6 7 3.8 8	<u> </u>	11 E1 E1 71 4	1	acility Telephone(	. B > 3	)
	Nome Henry Cla		12. Cont			14. Unit	
11. US DOT Description (Including Proper Shipping	Name, Hazard Cla	ss and ID Number)	Number	Туре	Quantity	Wt/Vol	i. Waste No.
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J. Additional Descriptions for Materials listed Above				1			
·				K. Han	dling Codes for Wa	stes List	ted Above
a. CP2002-FCB 3011.	c.		•	a.	[ 1.,	c.	
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b.   •	ι d.		<b>•</b> 1	b.		d.	
15. Special Handling Instructions and Additional Info	mation	1/9/ 4			(201)	,	0
a. PCB Out of Service I		7/2/02			26 38 lot		
CHEMTREC Emergency Resp	ouse Num	ber (800)424-	-9300 WM	H C	ontract 875030		0#171 2
<ol> <li>GENERATOR'S CERTIFICATION: I heret classified, packed, marked and labeled, and are in a and state laws and regulations.</li> </ol>	by declare that the c Il respects in proper d	ontents of this consignment are condition for transport by highwa	e fully and accura	ately des plicable i	or and a land		
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TRANSPORTER

FACILITY



CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/03/02 as described on Hazardous Waste Manifest number NYB9724383 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

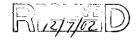
Profile Number: CP2002 CWM Tracking ID: 8156860301

CWM Unit #: 1\*0 Disposal Date: 12/03/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

relieved & muy RICHARD STURGES DIVISION MANAGER Certificate # 240506

12/04/02



STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# HAZARDOUS WASTE MANIFEST



Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

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(Hazardous Waste Manifest 1		•

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's	US EPA No. <u>[2] 2] 3] 의 최 최</u>		1 Doc. No. 8,04	2. Page 1	j intomia	ion withi quired by	n heavy bold y Federal La	d line w.
	3. Generator's Name and Mailing Address INLAND FISHER GUIDE GM		14 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	36		A. N	YB97	243	92	
	1 GENERAL MOTORS DR SYRACUSE NY 13206-048 4. Generator's Telephone Number (315)43	6 2-5314	*			B. Gener	ator's ID			
	5. Transporter 1 (Company Name) Buttalo Fuel Corp.		6. US EPA ID Numbe		724	C. State	Transporter's II		3150	
	7. Transporter 2 (Company Name)		8. US EPA ID Numbe	ır	l	E. State	Transporter's II	)		
	9. Designated Facility Name and Site Address		10. US EPA ID Numb	ll er		G. State	oorter's Telepho Facility ID	one (	<u> </u>	
	CWM CHEMICAL SERVICES, 1550 BALMER RD.	L.L.C.		in a r			y Telephone (	60.00.00	)	
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,	c.			1.0					EPA STATE	
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	J. Additional Descriptions for Materials listed Above					K. Handling	Codes for Wa	L stes List	ed Above	
	a CP2002 PCB Soil	с.			<u> </u>	a.		C.		
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1	15. Special Handling Instructions and Additional Info a. PCB Out of Service I	rmation	2/2/02		e to u	100	38 /0/	ე <sub>~</sub> ⟨̈́		
	CHEMIREC Emergency Rest		, ,				tract	ERG	#1,71	
	16. GENERATOR'S CERTIFICATION: I herel classified, packed, marked and labeled, and are in a	by declare that the	contents of this consignment condition for transport by	ent are fully	and accura	ately describe	ed above by propagational and nat	nnor ehin	ning name a	nd are
	and state laws and regulations.  If I am large quantity generator. I certify that I have practicable and that I have selected the practicable rand the environment; OR if I am a smaller generator to me and that I can afford.	a program in place	to reduce the volume and	d toxicify of	waste gener	ated to the d	egree I have de	termined	to be econor	mically
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	18. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name	ateriais	Signature		-			·	Mo. Day	Year
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2	20. Facility Owner or Operator: Certification of receip Printed/Typed Name A M T T	ot of hazardous ma	sterials covered by this m	anifest exc	ept as note	d in Item 19		<u></u>	Mo, Day ,	y Year
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/03/02 as described on Hazardous Waste Manifest number NYB9724392 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8156860501

CWM Unit #: 1\*0
Disposal Date: 12/03/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 240508

12/04/02



NYB9724401

STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION OF DIVISION OF SOLID & HAZARDOUS MATERIALS

# HAZARDOUS WASTE MANIFEST



Please type or print. Do not staple,

WASTE MANIFEST	। अधिराजा या या अधिराज्या । अधिराज्या । अधिराज्या । अधिराज्या । अधिराज्या । अधिराज्या । अधिराज्या । अधिराज्या	m 1/2/0/8//2/3		ation within heavy bold line required by Federal Law.
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CWM CHENICAL SERVICES.	L.t. C.			
1550 BALMER RD.	M V G A L	En la la compaña	H. Facility Telephone	
MODEL CITY NY 14107		<u>일 원 경 6 인 건 3</u> 12. Cor		14, Unit
11. US DOT Description (Including Proper Shippinດ	Name, Hazard Class and ID Number)	Number		Wt/Vol I. Waste No.
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J. Additional Descriptions for Materials listed Above	)		K. Handling Codes for W	/astes Listed Above
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15. Special Handling Instructions and Additional Info	rmation		r r and r	( ( )
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CHEMIKEC Emergency Res	onse Number (800	1424-9300 W	MI Confosed	SO/O
16. GENERATOR'S CERTIFICATION: I here classified, packed, marked and labeled, and are in a	by declare that the contents of this consi-	nment are fully and accuby highway according to a	rately described above by purplicable international and n	proper shipping name and are ational government regulations
and state laws and regulations.  If I am large quantity generator, I certify that I have	a program in place to reduce the volume	and toxicity of waste neo-	erated to the degree I have a	determined to be aconomically
practicable and that I have selected the practicable and the environment; OR if I am a smaller generator to me and that I can afford.	method of treatment, storage, or disposal c	irrentiv available to me wh	ich minimizes the present an	d future threat to human bealth
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17. Transporter 1 Acknowledgement of Receipt of M			111	
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19. Discrepancy Indication Space	0.00			
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20. Facility Owner or Operator: Certification of recei	ot of hazardous materials covered by the	s manifest except as no	ted in Item 19.	
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

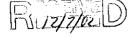
CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/03/02 as described on Hazardous Waste Manifest number NYB9724401 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8156861001

CWM Unit #: 1\*0 Disposal Date: 12/03/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 240512
12/04/02



# NYB9724419 Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

## STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

**HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212

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	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA No	0.4	st Doc. No. }&c	2. Page 1 of	Intomia		n heavy bold line y Federal Law.
	3. Generator's Name and Mailing Address INLAND FISHER GUIDE GM I GENERAL MOTORS DR SYRACUSE NY 13206-048				A. NY B. Generat	B972	244	19
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	9. Designated Facility Name and Site Address  OWN OFFENSION. SERVICES, 1580 BALMER KD.		PA ID Number		G. State Fa			)
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ļ	b. I I I I I I I I I I I I I I I I I I I	d.	<u> </u>	<u>•                                      </u>	b.		d.	
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	16. GENERATOR'S CERTIFICATION:   here	ov declare that the contents of t	his consignment are ful	d and accura	ately described	2/66	oper chin	pring name and are
	classified, packed, marked and labeled, and are in a and state laws and regulations.  If I am large quantity generator, I certify that I have practicable and that I have selected the practicable and the environment; OR if I am a smaller generator to me and that I can afford.	a program in place to reduce th	ransport by nighway ac e volume and toxicity of fishosal currently availab	waste gener	plicable interna ated to the dec	ree I have de	ional governmed	to be economically
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/06/02 as described on Hazardous Waste Manifest number NYB9724419 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8135716601 CWM Unit #: 1\*0 Disposal Date: 12/06/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 240807 12/09/02



# 4428

STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**



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		3. Generator's Name and M
		1 GENERAL MO SYRACUSE NY
362		4. Generator's Telephone No
57-73		5. Transporter 1 (Company
18) 4		7. Transporter 2 (Company
ionse Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362		Designated Facility Name
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	1550 BALMER RD. MODEL CITY NY 14107		植乳质的斑鸟	Ai 3i Ai	. G. 7. 9		716 754	. n 2 3	, '
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	CHEMTREC Emergency Res	onse Nu	aber (800)4	24-91 K	1500 MI	H C	ontract	ER	G#171
	16. GENERATOR'S CERTIFICATION:   here	by declare that the	contents of this consignm	ent are ful	y and accur	ately des	cribed above by pr	oper shi	pping name and are
	classified, packed, marked and labeled, and are in a and state laws and regulations.	all respects in proper	condition for transport by	highway ac	cording to ap	plicable i	nternational and nat	ional go	vernment regulations
	If I am large quantity generator, I certify that I have practicable and that I have selected the practicable	method of treatment.	storage, or disposal curre	ntly availab	le to me whic	h minimi	zes the present and	future th	reat to human health
	and the environment; OR if I am a smaller generator to me and that I can afford.	, I have made a good	I faith effort to minimize my	/ waste gen	eration and s	elect the	best waste manage	ment me	ethod that is available
	Printed/Typed Name		Signature (	6	00	0			Mo. Day Year
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ACI	20. Facility Owner or Operator: Certification of recei	pt of hazardous ma	terials covered by this m	nanifest ex	cept as note	ed in Iter	n 19.		
"	Printed/Typed Name ,		Signature		-				-





CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/06/02 as described on Hazardous Waste Manifest number NYB9724428 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8156871601

CWM Unit #: 1\*0

Disposal Date: 12/06/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER

Certificate # 240822

12/09/02



NYB9724437

## STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**



Please type or print. Do not staple.

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3. Generator's Name and Mailing Address  INLAND FISHER CUIDE GR		1— <del>71 - 11 - 11 - 1</del>		A. N	YB972	2///3	3.7
1 GEMERAL MOTORS DR SYRACUSE NY 13206-0486				B. Genera			
4. Generator's Telephone Number ( 315) 432				ΝA			
5. Transporter 1 (Company Name) U.S. Bulk Transport,	6. US EF	PA ID Number 2 9 8 2 3 4 7	7616				2014 NY
7. Transporter 2 (Company Name)	8. US EF	A ID Number	17/17		orter's Telepho Fransporter's II		418249947
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1550 BALMER RD.   MODEL CITY NY 14107	N Y O	0 4 9 8 3	61 61 71 9		16 754	-8231-	
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b. 15. Special Handling Instructions and Additional Information	l d.	1.	•	b.		d.	
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16. GENERATOR'S CERTIFICATION: I hereby of classified, packed, marked and labeled, and are in all reand state laws and regulations.	spects in proper condition for	this consignment are t r transport by highway a	ully and accura according to ap	ately describe plicable interr	ed above by pr national and na	oper shippir tional goveri	ng name and are nment regulations
If I am large quantity generator. I certify that I have a practicable and that I have selected the practicable met	program in place to reduce the	he volume and toxicity	of waste gener	ated to the de	egree I have de	etermined to	be economically
and the environment; OR if I am a smaller generator, I h to me and that I can afford.	ave made a good faith effort t	to minimize my waste go	eneration and s	elect the best	t waste manage	ment metho	od that is available
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20. Facility Owner or Operator: Certification of receipt o	f hazardous materials cove	ered by this manifest e	except as note	d in Item 19			
Pripted/Typed Name	Signatu		Her	/		Мс	Day Year
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/06/02 as described on Hazardous Waste Manifest number NYB9724437 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8156870701

CWM Unit #: 1\*0

Disposal Date: 12/06/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES V DIVISION MANAGER Certificate # 240815

12/09/02



STATE OF NEW TORKS DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# HAZARDOUS WASTE MANIFEST

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

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47	3, Generator's Name and Mailing Address TNEARD FISHER QUIDE GM 1. GENERAL MOTORS DR					A. N	YB97	326	99
ľ	4. Generator's Telephone Number ( 115)	2 531 <b>4</b>				B. Gener			
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ŀ	7. Transporter 2 (Company Name)		8. US EPA ID Numbe		1 600 {		oorter's Teleph Transporter's II	110 (	14. ) 813 ( AVT):
ŀ	Designated Facility Name and Site Address		10. US EPA ID Numb	er	LLL		oorter's Teleph Facility ID	one (	)
	CWM CHEMICAL SERVICES, 1550 BALMER RD.	E.E.C.							
	MODEL CITY NY 14107		N Y B O 4 9	8 3 6	6 7 9	H. Facilit	y Telephone ( ) (५ - / ५ प	823	
	11. US DOT Description (Including Proper Shipping	g Name, Hazard Cla	ass and ID Number)		12. Cont Number		13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
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	ensurence none Same A Rows	restrance swetter	nai inani	64° 7J	3767 <b>W</b> EI	8	10950	4	# 1 8 9
	<ol> <li>GENERATOR'S CERTIFICATION: I here classified, packed, marked and labeled, and are in and state laws and regulations.</li> </ol>	by declare that the call respects in proper o	contents of this consignment condition for transport by	ent are full highway acc	y and accura	ately describ plicable inter	ed above by pr national and na	oper ship ional gov	ping name and are ernment regulations
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	and the environment; OR if I am a smaller generato to me and that I can afford.  Printed/Typed Name	r, i nave made a good	Signature	/ waste gen	eration and s	elect the bes	t waste manage		
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(	20. Facility Owner or Operator: Certification of recei	pt of hazardous mat	terials covered by this m	nanifest exc	ept as note	d in Item 19			Mo. ⊜Day;⊜Year
	Michelle Heck		Much	<u> </u>	M_				/YYX



CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

## CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/23/02 as described on Hazardous Waste Manifest number NYB9732699 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

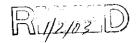
Profile Number: CP2002 CWM Tracking ID: 8156956401

CWM Unit #: 1\*0 Disposal Date: 12/23/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 242252

12/26/02



STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOUD & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**



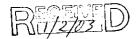
Please type or print, Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

GENERATOR

TRANSPORTER

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's U N Y (む)ひ)ひ	JS EPA No. <u>ジョニ</u> した」を「な」	Manifes 4 <sub>+</sub> いりり <sub>+</sub> の	t Doc. No. $ 9 5 7$	2. Page	Informa		in heavy bold line y Federal Law.
3. Generator's Name and Mailing Address INLAMI FISHER AUTORS DR I GENERAL MOTORS DR			•		A. N	YB97	327	'08
SYNACUSE NY 13206-04 4. Generator's Telephone Number ( 315, 43	86 2-5314					erator's ID A NE		
5. Transporter 1 (Company Name)		6. US EPA ID Nur	nber		C. State	Transporter's I	0 77	316A2 MY
Hice Trucking Corp		MINDOPA	6171615	151714		sporter's Teleph		200) 825-600
7. Transporter 2 (Company Name)		8. US EPA ID Nur	nber	<u> </u>	E. State	Transporter's II	)	
Designated Facility Name and Site Address		10. US EPA ID Nu	mher	<del>                                     </del>		sporter's Teleph	one (	)
CVM CHEMICAL SERVICES,	Lata Ga	10. 03 LI A ID NO	ilibei		G. State	Facility ID		
1550 BALMER RD. MODEL CITY NY 14107		<b>N</b> , Y, D, O, 4,	9.8.3.6	.6.7.9		ity Telephone (		)
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<u>.</u> .		205/00				.,,		
16. GENERATOR'S CERTIFICATION: I herel classified, packed, marked and labeled, and ere in a and state laws and regulations.	by declare that the c	ontents of this consid	idmont has full	y and accura	ately descrit	oed above by pre	per ship	ping name and are
and state laws and regulations.								-
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CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/23/02 as described on Hazardous Waste Manifest number NYB9732708 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8156953101

CWM Unit #: 1\*0 Disposal Date: 12/23/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER

Certificate # 242221

12/26/02

For questions please call our Customer Service Dept. at (800) 843-3604

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DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

## HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

CWM	į

(Hazardous Waste Manifest 5/00)

	nerator's US EPA No. Manif _[0_10_[2][2][3][9][4][4][0]	est Doc. No.	2. Page 1 o	IIIIOIIIIa	tion withi	n heavy bold line y Federal Law.
3. Generator's Name and Mailing Address INLAND FISHER GUIDE GN 1 GENERAL MOTORS DR SYRACUSE NY 13206-0406			٨	/B97		
4. Generator's Telephone Number (315) 132-531	į ėį		S A i	415		
5. Transporter 1 (Company Name)	6, US EPA ID Number N, Y, R, O, O, O, O, H,	5.7.2.4		ransporter's I		0 617 60
7. Transporter 2 (Company Name)	8. US EPA ID Number	1/1-1	<del></del> -	ransporter's I	····	VV ) (0, 7 (0).13
Designated Facility Name and Site Address	10. US EPA ID Number			orter's Teleph	one (	)
CVM CHEMICAL SERVICES, L.C.			G. State F	acility ID		
1550 BALMER RD. MODEL CITY NY 14107	NYD049836	5679	H. Facility	Telephone (	823	}
11. US DOT Description (Including Proper Shipping Name, Ha	azard Class and ID Number)	12. Cont		13. Total	14. Unit	
a. RQ, POLYCHLORINATED BIPH SOLID MIXTURE, 9, UN2315. I	ENYLS,	Number		Quantity らま。	Wt/Vol	I. Waste No. EPA
SOLID MIXTURE, 9, UN2315, I		υρι	D # 2	7,0,0,0	ĸ	STATE/
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J. Additional Descriptions for Materials listed Above CP2002 - PCB SOTE.		<del>' ,_ ' </del>	K. Handling	Codes for Wa	stes List	ed Above
	c	<u> </u>	a.		c.	
b	d.					
15. Special Handling Instructions and Additional Information  a. FCB Out of Service Date:	12/24/5	SR#	b. Colola 19	74-3	d.	
CHEMTREC Emergency Response	•		Cont	administra F801.	F RC	#171
			8156	951a	ર્	
16. GENERATOR'S CERTIFICATION: I hereby declare a classified, packed, marked and labeled, and are in all respects and state laws and regulations.  If I am large quantity expected I pertify that I have a present of the property of the pertify that I have a present of the pertify that I have a present of the pertify that I have a present of the pertify that I have a present of the pertify that I have a present of the pertify that I have a present of the pertify that I have a present of the pertify that I have a present of the pertify that I have a present of the pertify that I have a present of the pertify that I have a present of the pertify that I have a present of the pertificient of the pertifi	in proper condition for transport by nighway a	ccording to ap	olicable interna	itional and nat	ional gove	ernment regulations
If I am large quantity generator. I certify that I have a program practicable and that I have selected the practicable method of the and the environment; OR if I am a smaller generator, I have made to me and that I can afford.	eatment, storage, or disposal currently availa de a good faith effort to minimize my waste ge					
Printed Typed Name Printed Name Printe	Signature Signature	enter Contraction of the Contraction · · · · · · · · · · · · · · · · · ·		j	Mo. Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name	77 Signature		· V		-	
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18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature					do Deu Van
						Mo. Day Year
19. Discrepancy Indication Space  ACT Rec. 29/12 K						
20. Facility Owner or Operator: Certification of receipt of hazard	dous materials covered by this manifest e	xcept as note	in Item 19.			
Printed/Typed Name Michelle Fled	Signature (	FUN			N	O. Day Year





CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 12/23/02 as described on Hazardous Waste Manifest number NYB9732717 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8156956201 CWM Unit #: 1\*0

Disposal Date: 12/23/02

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

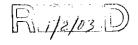
RICHARD STURGES DIVISION MANAGER

Certificate # 242250

12/26/02

For questions please call our Customer Service Dept.

at (800) 843-3604



In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

## STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

Please type or print. Do not staple.

# **HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212

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(Hazardous Waste Manifest 5/00)

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's 戦い むしいし	US EPA No. [조]조] (최] 최] <sup>4</sup> ] <sup>4</sup>	1	1 Doc. No. 1 <i>0</i> 1 Z 1 O	2. Page 1	inionnai		n heavy bold li y Federal Law.	
	3. Generator's Name and Mailling Address INLAND FISHER SOLDE CIR I CENERAL MOTORS DR					^ NYB9733347				
	SYRACUSE NS 13206-0406 4. Generator's Telephone Number ( \$15 ) 432-5314					B. Generator's ID ∴ A/4E				
	5. Transporter 1 (Company Name) 6. US EPA ID Number Timauwan da Tank Nansport Ny D 297644801					C. State Transporter's ID AC 25 267-WY				
	7. Transporter 2 (Company Name)	8. US EPA ID Numb	D. Transporter's Telephone (716) 873 9703  E. State Transporter's ID							
	Designated Facility Name and Site Address	10. US EPA ID Number			F. Transporter's Telephone ( )					
	CWM CHEMICAL SERVICES, L.L.C.									
	1550 BALMER RD. MODEL CITY NY 14107	N Y D O 4 9	1, 7, 0, 0, 4, 9, 8, 3, 6, 6, 7, 9			H. Facility Telephone( 716 754-823)				
	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			12. Cont Number	i i	13. Total Quantity	14. Unit WVVol	I. Waste N	No	
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	15. Special Handling Instructions and Additional Info 8. FCB Out. of Service D	rmation	6/27/03		SRA	68	6/17	- 62	Section and the second	•
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government are fully and accurately described above by proper shipping and state laws and regulations.										
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TACIL.	20. Facility Owner or Operator: Certification of receip		terials covered by this		ept as note	d in Item 19				
	Printed Typed Name PATAICIA hubuis		Signature	ear /	Tuelle	4			Mo. Day	Year



CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

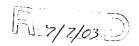
CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 06/30/03 as described on Hazardous Waste Manifest number NYB9733347 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157442601

CWM Unit #: 1\*0 Disposal Date: 06/30/03

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 persons who acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 249705
07/01/03



#### STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# P.O. Box 12820, Albany, New York 12212

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B. R. POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, UN2315, 111  D. J. Additional Descriptions for Materials listed Above C. C. C. C. C. C. C. C. C. C. C. C. C. C		MINER CITA NA 14103	WINDL CITY NY 14107 NY DO49836679					716 754-	.853	į l		
BORRATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accounted above to proper shipping interest and that the research of the contents of this consignment are fully and accounted and that forms and a desirable, and are in all respects to proper condition for transport by highway according to applicable international and national and the environment. Of it is an a smaller generator, I have made a good faith effort to minimum or well was to be excoording to applicable to the degree I have determined to be economically and the environment. Of it is an a smaller generator, I have made a good faith effort to minimum or well was to be a smaller generator. I have made a good faith effort to minimum or well was to be a smaller personal to the state of the degree I have determined to be economically and the environment. Of it I am a smaller generator, I have made a good faith effort to minimum or well was generated to the degree I have determined to be economically and the environment. Of it I am a smaller generator, I have made a good faith effort to minimum or well was generated to the degree I have determined to be economically and the environment. Of it I am a smaller generator, I have made a good faith effort to minimum or well and the environment. Of it I am a smaller generator, I have made a good faith effort to minimum or well as generated to the degree I have determined to be economically and the environment. Of it I am a smaller generator, I have made a good faith effort to minimum or well as generated to the degree I have determined to be a conomically and the environment. Of it I am a smaller generator, I have made a good faith effort to minimum or well as generated to the degree I have determined to be economically and the environment. Of it I am a smaller generator, I have made a good faith effort to minimum or well as generated to the degree I have determined to be economically and the environment. Of the proper of the determined to be economically and the environ		11. US DOT Description (Including Proper Shipping	Name, Hazard Cl	ass and ID Number)					l			
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/22/03 as described on Hazardous Waste Manifest number NYB9733698 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157736501 CWM Unit #: 1\*0

CWM Unit #: 1\*0 Disposal Date: 09/22/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 253953
09/23/03

### NYB9733707 Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

### STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS



(Hazardous Waste Manifest 5/00)

### **HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212

CW13

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA N	(*****	fest Doc. No. $105/6$	2. Page 1 of	IIIIOIIIIa	tion withi	n heavy bold lir y Federal Law.	ne
	3. Generator's Name and Mailing Address LIM 1. GENERAL MOTORS DR		<del></del>	2   1/2   200	Δ	B97	337	07	
	SYNACUSE NY 13206-04	86 2-5314			B. Generat	or's ID			
	Generator's Telephone Number (	<u> </u>	PA ID Number	<del></del>	SAM		_ <u> </u>	<b>117.75</b>	<del>( )  </del>
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/23/03 as described on Hazardous Waste Manifest number NYB9733707 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157739301 CWM Unit #: 1\*0 Disposal Date: 09/23/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 254024
09/24/03

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

**HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212



(Hazardous Waste Manifest 5/00)

	WASTE MANIFEST	US EPA NO. Ma <u>[2]2</u> [3]9[4]4[6]	nifest Doc. No.	2. Page 1 of		on within heavy bold quired by Federal Lav		
	3. Generator's Name and Mailing Address INLAND FISHER GUIDE GM I GENERAL MOTORS DR SYRACUSE NY 13206-0486			A. NY		33716		
	4. Generator's Telephone Number (315)432-5314		B. Generator's ID					
	5. /Transporter 1, (Company Name)	6. US EPA ID Number	<u></u>	C. State Transporter's ID A D 2/2 7 - 1/1				
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	7. Transporter 2 (Company Name)	8. US EPA ID Number		E. State Tra		<del></del>		
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	11. US DOT Description (Including Proper Shipping Name, Hazard Cl	ass and ID Number)	12. Conta			14. Unit		
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	<ol> <li>GENERATOR'S CERTIFICATION: 1 hereby declare that the classified, packed, marked and labeled, and are in all respects in proper and state laws and regulations.</li> </ol>	contents of this consignment are condition for transport by highwa	e fully and accura by according to app	Andreada e e e e e	· · · · · · · · · · · · · · · · · · ·	per shipping name and onal government regula	d are	
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/23/03 as described on Hazardous Waste Manifest number NYB9733716 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157739801

CWM Unit #: 1\*0

Disposal Date: 09/23/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 254029
09/24/03

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DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

TRANSPORTER

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se type or print. Do not staple.		20, Albany, New Y	ork 12212			(Haz	ardous Waste Manifest 5/00)
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20. Facility Owner or Operator: Certification of recei	pt of hazardous mate		fest except as not	ed in Item	19.		
Printed/Typed Name SHELLEY RUOPP		Signature X Ll Lluig	Durch	أريه			Mo. Day Year



1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/23/03 as described on Hazardous Waste Manifest number NYB9733725 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157741301 CWM Unit #: 1\*0

Disposal Date: 09/23/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 254037
09/24/03

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

DIVISION OF SOLID & HAZARDOUS MATERIALS

### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

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	UNIFORM HAZARDOUS 1. Generator's WASTE MANIFEST 8.7.0.0.0	US EPA No. Ma  2  2  3  9  4  9  0   <i>(</i>	anifest Doo		2. Pa			in heavy bold line by Federal Law,		
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	5Transporter 1 (Company Name)	6. US EPA ID Number					n AC	2546H-10		
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	7. Transporter 2 (Company Name)	8. US EPA ID Number				tate Transporter's I				
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	MODEL CITY NY 14107	MODEL CITY NY 14107 NY 15 0 4 9 8 3 6 6 7 9					623	<i>l</i>		
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	<ol> <li>GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labeled, and are in all respects in proper and state laws and regulations.</li> </ol>	contents of this consistences are			A		· · · · · · · · · · · · · · · · · · ·			
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	Printed/Typed Name SHELLEY /LOOPP	Signature Signature	I RC6f	(L)			<u> </u>	No. Day Year		



1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/23/03 as described on Hazardous Waste Manifest number NYB9733734 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157740001 CWM Unit #: 1\*0

Disposal Date: 09/23/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 254030

Elisias mun

09/24/03

DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple,

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212

UNIFORM HAZARDOUS	<ol> <li>Generator's</li> </ol>		est Doc. No.	2. Pa	ge 1 of Informa		zardous Waste Manifest 5/00) iin heavy bold line
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<ol> <li>GENERATOR'S CERTIFICATION: I hereb classified, packed, marked and labeled, and are in all and state laws and regulations.</li> </ol>	v declare that the	contonto of this severity					
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/23/03 as described on Hazardous Waste Manifest number NYB9733743 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157743801

CWM Unit #: 1\*0 Disposal Date: 09/23/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 254063 09/24/03

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

DIVISION OF SOLID & HAZARDOUS MATERIALS

### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

**S** Conti

(Hazardous Waste Manifest 5/00

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	4. Generator's Telephone Number ( 115 )412 5114				SAME				
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	Designated Facility Name and Site Address	10. US EPA ID Number	<u> </u>	G. S	tate Facility ID				
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	<ol> <li>GENERATOR'S CERTIFICATION: 1 hereby declare that the classified, packed, marked and labeled, and are in all respects in proper and state laws and regulations.</li> </ol>	contents of this consignment are fully condition for transport by highway acc	y and accura cording to app	tely des licable i	cribed above by pro nternational and nati	per shipp onal gove	ping name and are rnment regulations		
İ	If I am large quantity generator. I certify that I have a program in place practicable and that I have selected the practicable method of treatment, and the environment; OR if I am a smaller generator. I have made a good	to reduce the volume and toxicity of storage, or disposal currently available	waste genera	ited to the	e degree I have de	termined	to be economically		
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/23/03 as described on Hazardous Waste Manifest number NYB9733752 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157738601

CWM Unit #: 1\*0 Disposal Date: 09/23/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 254018 09/24/03

DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# P.O. Box 12820, Albany, New York 12212

<b>S</b> CHAI	
(Hazardous Waste Manifest 5/00)	

	UNIFORM HAZARDOUS  **Output**  1. Generator's  WASTE MANIFEST  1. Generator's	US EPA No. Manifes ピーストラータータータークート	t Doc. No.		ge 1 of Inform	ation with required t	in heavy bold line by Federal Law.				
	3. Generator's Name and Mailing Address INLAMD FIGHER GUIDE GM 1. GENERAL BOTONS DR SYRACUSE NY 13206-0486			A.	NYB97	337	761				
	4. Generator's Telephone Number (315)			6. (	Generator's ID ⊗ANI}						
	5. /Transporter 1. (Company Name)	6. US EPA ID Number		C. 9	State Transporter's Transporter's Telep		121657-PA				
	7. Transporter 2 (Company Name)	8. US EPA ID Number	1.54 11.5	E. 8	State Transporter's	ID	TEA TO				
•	Designated Facility Name and Site Address	10. US EPA ID Number	<del>                                     </del>	+	Fransporter's Telep	hone (	)				
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	MODEL CITY NY 14107 NY 50 49836679				H. Facility Telephone (						
	11. US DOT Description (Including Proper Shipping Name, Hazard Cla	ass and ID Number)	12. Con Number		13. Total Quantity	14. Unit	I. Waste No.				
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	d.			<del>                                     </del>	<del></del>	<del> </del>	EPA				
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	J. Additional Descriptions for Materials listed Above UF2002-PCH SUTL	,		K. Har	ndling Codes for W	astes List	ted Above				
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	b.   •   d. ,										
•	15. Special Handling Instructions and Additional Information a. PCB Out of Service Date:	22/03	SR#	agh	955-13	<u>ქი.</u> ბ					
	CHEMITREC Emergency Response Num	ber (800)424-93 おかち 3 (SM)	00 UN		ontract Ole	ERG 5 M/S	1280				
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	If I am large quantity generator, I certity that I have a program in place to practicable and that I have selected the practicable method of treatment, and the environment; OR if I am a smaller generator, I have made a good to me and that I can afford.	o reduce the volume and toxicity of storage, or disposal currently available faith effort to minimize my waste general	waste gene to me which ration and s	rated to th minim select the	the degree I have d izes the present and best waste manage	etermined I future threment met	to be economically eat to human health hod that is available				
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/23/03 as described on Hazardous Waste Manifest number NYB9733761 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157738801 CWM Unit #: 1\*0

Disposal Date: 09/23/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 254019 09/24/03

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

**S**CAR

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

(Hazardous Waste Manifest 5/00)

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's <u>利力</u> (行) ()	S US EPA No. 		t Doc. No.	2. Page	Inioina	tion with	nin heavy bold line by Federal Law.			
	3. Generator's Name and Mailing Address INLAND FISHER CUIDE OF I CENERAL MOTORS DR SYRACUSE MY 13206-049	i) b			11		NYB97					
	4. Generator's Telephone Number ( )	2-5314 					AME	ŧ	. 1			
	5/ Transporter) (Company Name)	appear V	6. US EPA ID Num	and the same of	G ( C	C. Sta	te Transporter's I		H67323-0			
	7. Transporter 2 (Company Name)	***	8. US EPA ID Num		5,1,5	D. Transporter's Telephone (でんど)(シントンプロ						
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	9. Designated Facility Name and Site Address		10. US EPA ID Nun	nber	<del></del>	_	te Facility ID					
	CWM CHEMICAL SERVICES, 1550 BALMER RD.	L. L. S.	ſ									
MODEL CITY MY 1410? RY D 0 4 9 8 3 6 6 7 9 H. Facility Telep												
	11. US DOT Description (Including Proper Shipping	Name, Hazard C	lass and ID Number)		12. Conta Number		13. Total Quantity	14. Unit Wt/Vol	! !			
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	If I am large quantity generator. I certify that I have practicable and that I have selected the practicable m and the environment; OR if I am a smaller generator, to me and that I can afford.	a program in place ethod of treatment, have made a good	to reduce the volume as storage, or disposal cum I faith effort to minimize n	nd toxicity of w ently available ny waste gener	vaste genera to me which ration and se	ted to the minimize lect the be	degree I have det s the present and f est waste managen	ermined uture thre nent mell	to be economically eat to human health hod that is available			
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1	20. Facility Owner or Operator: Certification of receipt Printed/Typed Name	of hazardous mat	erials covered by this r	nanifest exce	pt as noted	in Item 1	9.					
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/23/03 as described on Hazardous Waste Manifest number NYB9733779 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157739001

CWM Unit #: 1\*0 Disposal Date: 09/23/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 254021
09/24/03

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DIVISION OF SOLID & HAZARDOUS MATERIALS

### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's Nコリカロ	US EPA No. <u>[在]在[</u> 世] <sup>[2]</sup> [ <sup>2]</sup> [ <sup>4</sup> ]	Manifes	st Doc. No. 」ロッサ	2. Pag			nin heavy bold line by Federal Law.
3. Generator's Name and Mailing Address INLAMO PESHER COLDE GM 1 CENERAL MOTORS DR 578ACUSE NY 13706 040	Ngs				A.	NYB9	7337	788
4. Generator's Telephone Number ( 315 )	2-5314				J 5, G	SAME.		
5. Transporter 1 (Company Name)	() ()	6. US EPA ID Numbe		7.2		tate Transport	er's ID X公	19525-PA
7. Transporter 2 (Company Name)	1	P. A. D.9 . S. 7. 8. US EPA ID Numbe	<u> 141</u> r	(S <sub>(1)</sub> 5	1	ansporter's Te tate Transport		881651-813
Designated Facility Name and Site Address		1		<u>.</u>	F. Ti	ansporter's Te	elephone (	) 0
CUM CHEMICAL SERVICES,	Lul.d.		<b>3</b> 1		G.S	tate Facility.ID		
1550 BALMER RD. MODEL CITY NY 14107		N Y D O 4 9	8 3 6	6.7.9	H, F	acility Telepho	ne ( 54-823	}
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J. Additional Descriptions for Materials listed Above CP2002 - PCB - SULL.				<del>!!</del>	K. Han	dling Codes fo	r Wastes Lis	ted Above
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15. Special Handling Instructions and Additional Information PCB Out of Service Da	mation ()	122/03	1	erich /	b.	ARE 1	_   d. <b>5</b>	
CHENTREC Emergency Resp.		1 1		SR#(c ⇔: ∪#	2.1.1.			W. F. C. S.
Cototrac (800)	535-5	053					1,00	7429
<ol> <li>GENERATOR'S CERTIFICATION: I hereby classified, packed, marked and labeled, and are in all and state laws and regulations.</li> </ol>	y declare that the o respects in proper	contents of this consignment condition for transport by h	igililay acc	ording to ap	piicable i	cribed above b nternational an	y proper ship d national gov	ping name and are ernment regulations
If I am large quantity generator. I certify that I have a practicable and that I have selected the practicable m and the environment; OR if I am a smaller generator, I to me and that I can afford.	a program in place ethod of treatment, have made a good	to reduce the volume and storage, or disposal curren faith effort to minimize my	toxicity of t tly available waste gene	waste gener to me whic ration and s	ated to the h minimizelect the	ne degree I hav zes the present best waste ma	ve determined and future thr nagement met	to be economically eat to human health thod that is available
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/23/03 as described on Hazardous Waste Manifest number NYB9733788 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157742901

CWM Unit #: 1\*0 Disposal Date: 09/23/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 254056
09/24/03

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Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

### DIVISION OF SOLID & HAZARDOUS MATERIALS

**HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212



(Hazardous Waste Manifest 5/00)

	UNIFORM HAZARDOUS  WASTE MANIFEST  NIVIDIO	US EPA No. Manife [2][2][3][9][4][4][6][ <b>2</b> ][4	est Doc. No.	2. Page 1	inioima	ition with equired b	in heavy bold line by Federal Law.
Ì	3. Generator's Name and Mailing Address INLAND FISHER CUIDE CR I GENERAL MOTORS DR SYRAPUSE MY 13206-0466				YB97	337	97
	4. Generator's Telephone Number (315) 432-5314			B. Gene S.A	ators ID .Mi		
	5. Transporter 1 (Company Name)  U.S. BUKK Transport LAC.	6. US EPA ID Number	7215				65298-NY
	7. Transporter 2 (Company Name)	8. US EPA ID Number			orter's Teleph Transporter's I		38812918182
-			1 1 1		orter's Teleph		<del>- ,</del>
	Designated Facility Name and Site Address     CMM_CHEMICAL_SERVICES, L.L.C.	10. US EPA ID Number	<del></del>	G. State	Facility ID	·····	
	1556 BALMER ND. MODEL CITY NY 14107	  N_Y_D_0_4_9_8_3_6	(6,7,9	H. Facilit	y Telephone (	-823	}
1	11. US DOT Description (Including Proper Shipping Name, Hazard Cl	ass and ID Number)	12. Cont	ainers	13. Total	14. Unit	
ŀ			Number		Quantity	Wt/Vol	I. Waste No.
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	J. Additional Descriptions for Materials listed Above 、CP2でもという。PC格・SCCLA。		<del></del>	K. Handling	Codes for Wa	stes List	ed Above
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ļ	b. J. • J. d.		<u>•                                     </u>	b.		d.	
	a. PCB Out of Service Date:	123/03	SKA	109	5/43	} ""	antan, a competer make,
	CHEMTREC Emergency Response Num INFOTRAC					Eku	*171
Ì	16. GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labeled, and are in all respects in proper	(800) 535 - 5					ping name and are
	and state laws and regulations.  If I am large quantity generator. I certify that I have a program in place practicable and that I have selected the practicable method of treatment, and the environment; OR if I am a smaller generator, I have made a good to me and that I can afford.	to reduce the volume and toxicity of	f waste genera	ted to the de	gree I have de	termined	to be economically
	Printed Typed Name Edwin B. Richn for James F. Hartnett	Signature School	BR	hnt	/ <u>.</u> .	 N . <i>C</i>	10. Day Year
.	17. Transporter 1 Acknowledgement of Receipt of Materials		<u> </u>				17 (20)
	Printed/Typed Name	Signature	la min	₩u		N ,	no. Day Year
	18. Transporter 2 Acknowledgement of Receipt of Materials	1 Section 1995	Transfer !	1			12/2/21
	Printed/Typed Name	Signature	-	J		N	lo. Day Year
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!	20. Facility Owner or Operator: Certification of receipt of hazardous mat		cept as noted	in Item 19.			
	Printed/Typed Name  AKT  AKT	Signaturé )	131	2		N ./	10. Day Year



1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733797 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157744201

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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RICHARD STURGES DIVISION MANAGER Certificate # 254138

09/25/03

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

**HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212



Please type or print. Do not staple.

(Hazardous Waste Manifest 5/00)

	UNIFORM HAZARDOUS  WASTE MANIFEST  1. Generator's		est Doc. No.	2. Pa	ge 1 of Informa	tion withi	n heavy bold line
	3. Generator's Name and Mailing Address INLANO FLORIER GUIDE CM	12 3 3 3 4 4 0 0 1	10194				y Federal Law.
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	SYRACUSE MY 13206-0486				enerator's ID		
	4. Generator's Telephone Number ( ) 175 ) 132 5 3 1 4  5. Transporter 1 (Company Name)				SAME		
	1	6. US EPA ID Number		C. S	tate Transporter's I	D	1657-PA
	7. Transporter 2 (Company Name)	PAD987397 8. US EPA ID Number	15/12		ansporter's Teleph		88181818188
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	1550 BALMER RD. MODEL CITY NY 14107	N <sub>1</sub> Y <sub>1</sub> D <sub>1</sub> O <sub>1</sub> N <sub>1</sub> 9 <sub>1</sub> 8 <sub>1</sub> 3 <sub>1</sub> 6	5 <sub>1</sub> 6 <sub>1</sub> 7 <sub>1</sub> 9	H, F	acility Telephone( 716—754	-825	}
	11. US DOT Description (Including Proper Shipping Name, Hazard Cla	ass and ID Number)	12. Cont	ainers	13. Total	14. Unit	
			Number	Type	Quantity	₩I∕Vol	I. Waste No.
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		_	0.03	្រា	2,8,0,0,0	K	PLATE 7
	b.		-1				EPA
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GENERATOR	C.			1_		<u> </u>	
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			1 , ,		 	, [	STATE
	d.				<del></del>		EPA
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	J. Additional Descriptions for Materials listed Above						
	CP2002 PCB SOIL			K. Hane	dling Codes for Wa	stes Liste	ed Above
	d. C.		<u> •                                     </u>	a.		C.	
	b. d.  15. Special Handling Instructions and Additional Information a. PCB Out of Service Date: 9	1 1	<u>•</u>	b.	اللا	d.	
į		123/03			5143	Am.	Transfer de N. Agrajo i da
	CHEMIREC Emergency Response Num	ber (600)424~9.	300 WM	) Co	intract	ERG	
	INFOTRAC 81577454	(800) 535-5	033	61	7 Contra	act	-
	<ol> <li>GENERATOR'S CERTIFICATION: I hereby declare that the c classified, packed, marked and labeled, and are in all respects in proper of and state laws and regulations.</li> </ol>	and the state of t	coroning to app	ilicable li	iternational and nati	опаі доче	Inment regulations
	If I am large quantity generator. I certify that I have a program in place to practicable and that I have selected the practicable method of treatment, and the environment; OR if I am a smaller generator. I have made a good	to reduce the volume and toxicity of storage, or disposal currently availab	f waste genera de to me which	ted to th	ne degree I have de	termined t	to be economically
	to me and that I can afford.	faith effort to minimize my waste ger	neration and se	lect the	best waste manager	nent meth	nod that is available
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TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials			er si tanti.	Marie Committee		13 340 -3 600
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إ	Act Rea RELIEV						
FACILITY	20 Facility Owner or Operator: Cortification of record of head						
8	20. Facility Owner or Operator: Certification of receipt of hazardous mater Printed/Typed Name	Signature	cept as noted	in Item	19.		
	Michelle Fleck	Michael	1 6	110	1		Day Year



1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733806 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157745401

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES V DIVISION MANAGER Certificate # 254148 09/25/03

our Customer Service Dept. at (800) 843-3604

For questions please call

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

**HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212



(Hazardous Waste Manifest 5/00)

	WASTE MANIFEST N	Generator's US	EPA No. [2] 3] 第14[4] ()		Doc. No.				n heavy bold line y Federal Law.	
	3. Generator's Name and Mailing Address INLAND FISHER GUIDE GM I GENERAL MOTORS OR SYRACUSE NY 13206-0486			<del></del> '	٠.,	Α.	NYB97	338	15	
	4. Generator's Telephone Number (316)  5. Transporter 1 (Company Name)	6.	US EPA ID Number			ļ.,	Senerator's ID	AH	67323·NY	
	7. Transporter 2 (Company Name)		MD 9873 US EPA ID Number	4,7	<u>5/ 5</u>	D. Transporter's Telephone (888)(4512)  E. State Transporter's ID				
ŀ	9. Designated Facility Name and Site Address CWM CHEMICAL SERVICES, L.		. US EPA ID Number		<u></u>		ransporter's Telepho tate Facility ID	one (	)	
	1550 BALMER ND. MODEL CITY NY 14107	<del></del>	Y D O 4 9 8	6 7 9 12. Con	_ <del></del>					
	a. RQ, POLYCHLOR NATED B	PHENYLS			Number		13. Total Quantity 包含了。	14. Unit Wt/Vol	I. Waste No. EPA	
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	· d.						:		EPA STATE	
	J. Additional Descriptions for Materials listed Above CP2002 - PCB - SULL.		· · · · · · · · · · · · · · · · · · ·			K. Han	dling Codes for Wa	stes List		
	a	C.			4	a.		C.		
	b. 15. Special Handling Instructions and Additional Informati a. PUB Out of Service Dat	i d. on or/ ⊕:	23/03		· · · · · · · · · · · · · · · · · · ·	10 G	5/43-	3 3	V ** ***	
	THEMTRIC Emergency Respon	1452	(800) 53	5-5	053	G	M Contro	ect	#171	
	<ol> <li>GENERATOR'S CERTIFICATION: 1 hereby de classified, packed, marked and labeled, and are in all rest and state laws and regulations.</li> <li>If 1 am large quantity generator. I certify that I have a properticable and that I have selected the practicable method.</li> </ol>	onram in place to re	aduce the volume and to	Jnway acc	ording to ap	plicable	International and nati	ional gove	ernment regulations	
	and the environment; OR if I am a smaller generator, I have to me and that I can afford.  Rrinted/Typed Name.4	e made a good faith	age, or disposal currently	y available raste gene 	ration and	ch minimi select the	zes the present and best waste manage			
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ANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materia	C/7	ignature	Prophagosopsephilip		tt	race		<sup>9</sup> 78303	
⊤RAN	Printed/Typed Name  19. Discrepancy Indication Space	S	ignature					N	10. Day Year	
FACILITY	Act Rec 2909	+ K	,				····			
FAC	20. Facility Owner or Operator: Certification of receipt of b		ls covered by this man				n 19.	(N	10 Pay Year	



1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733815 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157745201

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES ()
DIVISION MANAGER
Certificate # 254147

09/25/03

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVÍSION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212

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(Hazardous Waste Manifest 5/00)

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's	US EPA No.			2. Pag	'   IIIIUIIIIa	tion with	in heavy bold line by Federal Law.			
	3. Generator's Name and Mailing Address INLAND FISHER GUILVE GM I GENERAL MOTORS OF					A.	NYB97	338	324			
	4. Generator's Telephone Number (315, 45	06 2-5314 -				B. Generator's ID SAME						
	Transporter 1 (Company Name)		6. US EPA ID Num	ber		C. State Transporter's ID AC 25.35.8-A/V						
	Tongwander Tank		WYD097	1644	801	D. Transporter's Telephone (7/16)8739/13						
	7. Transporter 2 (Company Name)		8. US EPA ID Num	ber		E. State Transporter's ID						
	Designated Facility Name and Site Address		10. US EPA ID Nur	<u>         </u> mber	_ 1L	F. Transporter's Telephone ( ) G. State Facility ID						
	CHM CHEMICAL SERVICES,	Lat. C.				u. s	iale racilly (D					
	1550 BALMER RD. MODEL CITY NY 14107 N.Y.D.O.4.9.8.3.6.6.7.5						acility Telephone (		)			
	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)							14. Unit				
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	b.				<u> 100</u>	D <sub>T</sub>	2,0,0,00	K.	BUVE7			
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733824 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157748001

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES V DIVISION MANAGER Certificate # 254171

relieved & duny

09/25/03

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

TRANSPORTER

FACILITY

# DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

ase type or print. Do not staple.	P.O. Box 128	20, Albany, N	ew York	12212			(Ha	zardous Waste Manifest 5/00)
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's U N Y (ロ (ロ (ロ	JS EPA No. 2 <sub>1</sub> 2 <sub>1</sub> 3 <sub>1</sub> 9 <sub>1</sub> 4 <sub>1</sub> 4	Manifes 4 O	st Doc. No	2. Pag	11110111	nation with	nin heavy bold line by Federal Law.
3. Generator's Name and Mailing Address I REAND FISHER GUIDE UM I GENERAL HOTORS DR EVRACUSE NY 13206-04					А.	NYB97	'338	333
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7. Transporter 2 (Company Name)		8. US EPA ID Nun	nber	· · · · · · · · · · · · · · · · · · ·	E. St	ate Transporter's	ID .	The tart
9. Designated Facility Name and Site Address CWM CHEMICAL SERVICES,	t. J., C.	10. US EPA ID Nu	mber	<u> </u>		ansporter's Telep ate Facility ID	none (	
1550 BALMER RD. MODEL CITY NY 14107	j	NYDGUS	) 	679	H. Fa	cility Telephone	( -823	}
11. US DOT Description (Including Proper Shipping	Name, Hazard Clas	ss and ID Number)		12. Cont Number	- 1	13. Total	14. Uni	
* RG, POLYCHLOKINATED SOLID MIXTURE, 9, UN2.	BIPHENYL	S,	<del></del> ;	Number	туре	Quantity FGT.	Wt/Vol	I. Waste No. EPA
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J. Additional Descriptions for Materials listed Above CP 2002 - PCM 場合は、		<del> </del>	· · · · · · ·		K. Hand	lling Codes for W	astes Lis	led Above
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15. Special Handling Instructions and Additional Information PCB (NS) of Service (R	mation d	123/03	i i	SR#	69	5/43	-5	8157746
CHEMTREC Emergency Respi	onse Numb	er (800 n	424-931 ~ 7	00 WM	l Co	ntract	15 100.55	4171
<ol> <li>GENERATOR'S CERTIFICATION: I herebolassified, packed, marked and labeled, and are in all and state laws and regulations.</li> </ol>	y declare that the co respects in proper co	stanta of this				ribed above by p		ping name and are
If I am large quantity generator. I certify that I have a practicable and that I have selected the practicable m and the environment; OR if I am a smaller generator, it to me and that I can afford.	a program in place to ethod of treatment, st I have made a good fa	reduce the volume a	nd toxicity of v	vaste genera	ted to the	e degree I have d	etermined	to be economically
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20. Facility Owner or Operator: Certification of receipt			manifest exce	pt as noted	in Item	19.		
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733833 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157746601 CWM Unit #: 1\*0

Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES! DIVISION MANAGEŘ Certificate # 254159

09/25/03

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

## P.O. Box 12820, Albany, New York 12212

UNIFORM HAZARDOUS	1. Generator's			st Doc. No.		ge 1 of Informa	tion with	in heavy bold line
WASTE MANIFEST	\$15 port	[三]的[3]等[4]	1001	1070				by Federal Law.
3. Generator's Name and Mailing Address LNLAND FISHER GULDE GR LUENERAL MOTORS DR STRACUSE NY LIVOR OR					A.	NYB97	338	342
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5. Transporter 1 (Company Name)		6. US EPA ID Numb	er	···	C 6	•	N12	31506-NY
Buttale Fuel Corp.		N.Y.R.O.O.C		724	D. T	ransporter's Telephi	one (	3136677802
7. Transporter 2 (Company Name)		8. US EPA ID Numb	er	<u> </u>		tate Transporter's II		100 100 01 JEN EN
O Deciment of Table 100	· · · · · · · · · · · · · · · · · · ·		1 1 1	1 1 1	_	ransporter's Teleph		)
9. Designated Facility Name and Site Address		10. US EPA ID Numl	ber		G. S	tate Facility ID	·	
UVM CHEMICAL SERVICES, 1550 BALMER RD.	Litator	L <sup>3 ·</sup>						-
MODEL CITY NY 14107		$\widehat{N}_1Y_1D_1O_14_19$	636			acility Telephone( イトラップラギ		
11. US DOT Description (Including Proper Shippin	g Name, Hazard Cl	ass and ID Number)		12. Cont		13. Total	14. Unit	ŀ
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J. Additional Descriptions for Materials listed Above	•		1	<u>' '</u> '	K. Han	dling Codes for Wa	stes List	ted Above
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<ol> <li>GENERATOR'S CERTIFICATION: I here classified, packed, marked and labeled, and are in a and state laws and regulations.</li> </ol>	by declare that the o all respects in proper	sodinata af this seest						ping name and are ernment regulations
If I am large quantity generator. I certify that I have practicable and that I have selected the practicable and the environment; OR if I am a smaller generator to me and that I can afford.	e a program in place method of treatment, , I have made a good	to reduce the volume an storage, or disposal curre faith effort to minimize m	d toxicity of sently available y waste gene	waste genera to me which eration and se	ated to to minimized	he degree I have de zes the present and f best waste manager	termined uture thr	to be economically eat to human health
to me and that I can afford.  Printed/Typed Name		Signature /						<del></del>
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Printed/Typed Name		Signature )						Mo. Day Year
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18. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name	aterials		1 1	<i>-</i>				
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20. Facility Owner or Operator: Certification of receip	ot of hazardous mat	erials covered by this =	anifest ever	ent se noto:	lin Ita-	. 10		
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733842 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157744801

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES ()
DIVISION MANAGER
Certificate # 254144

09/25/03

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

(Hazardous Waste Manifest 5/00)

P.O. Box 12820, Albany, New York 12212

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	3. Generator's Name and Mailing Address I ML, AND FISHER CUIDE CM I GENERAL MOTORS OR EYRACUSE NY 13206-0416						A.	NYE Generator's	397	338	51	
	4. Generator's Telephone Number (315)432-5	314					1	SAM				
t	5. Transporter 1 (Company Name)		6. US EPA II	D Number						~ 417	88965	<i>∖</i> .
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Ī	7. Transporter 2 (Company Name)		8. US EPA II		1.1.	1-1-			sporter's II	<u>_</u>	The party	276. CX
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	1550 BALMER ND. MODEL CITY NY 14107		N Y D O	4983	6,6	7,9	H. Fi	acility Tele	lephone (	823	}	
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	CHEMTREC Emergency Response	e Num										
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	<ol> <li>GENERATOR'S CERTIFICATION: I hereby declar classified, packed, marked and labeled, and are in all respect and state laws and regulations.</li> </ol>	sto in proper	CONGRECTION (FAI)	insport by mighway	y accordi	ing to app	plicable	internation	nai and nati	ional gove	ernment regula	lations
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L	20. Facility Owner or Operator: Certification of receipt of haza	ardous mat	terials covered !	by this manifest	except	as note	d in Iten	n 19.				
	Printed/Typed Name		Signature	elil	1	FU	01	i .		<u></u>	Day Pay4	/ Year



1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733851 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157744401

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DIVISION MANAGER
Certificate # 254140

09/25/03

STATE OF MENY TORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# HAZARDOUS WASTE MANIFEST

(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

# P.O. Box 12820, Albany, New York 12212

UNIFORM HAZARDOUS  WASTE MANIFEST  1. Generator's  W Y D O	US EPA No. Manifes レベルス・ジャターサーローの		2. Pa	ilitorna		in heavy bold line by Federal Law.
3. Generator's Name and Mailing Address INLAND FISHER GUIDE GR 1 GENERAL MOTORS DR		[ %r [ 7 ] F W	Α.	NYB97	338	369
5 TRACUSE NY 13206-0436 4. Generator's Telephone Number (315)432-5314			B. G	enerator's ID SAME		
Generator's lelephone Number ( )     Transporter 1 (Company Name)	6. US EPA ID Number				5.04	3 / / / / / · · · · · ·
an exa a musico	P.H.D.98,7,3,4,7	E. I. C.	C. S	tate Transporter's II	O XW	(03964-PA 888)6518182
7. Transporter 2 (Company Name)	8. US EPA ID Number	<u>                                     </u>		tate Transporter's II		7801921018 &
				ransporter's Telepho		<u> </u>
Designated Facility Name and Site Address	10. US EPA ID Number	<u>1 1 1</u>		tate Facility ID	3110 1	
CVN CHEMICAL SERVICES, L.L.C.				ŕ		
1550 BALMER ND. MODEL CITY NY 14107	NYD049836	6,7,9	H. F	acility Telephone(	823	}
11. US DOT Description (Including Proper Shipping Name, Hazard Cl	ass and ID Number)	12. Cont	ainers	13. Total	14. Unit	
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J. Additional Descriptions for Materials listed Above		<u> </u>	Ler K. Han	dling Codes for Wa	stae lie	ed Above
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15. Special Handling Instructions and Additional Information a PCB Out of Secvice Date:	123/03	SR#	69	5143-	- 8	
CHEMINEC Emergency Response Num	•	1.419.41	y- (/-///	and the second management of the	E iii	1 at 4 10 4
INFOTRAC 81577455	(800) 535.5					.,,,
16. GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labeled, and are in all respects in proper	contents of this consistement are full-		4-41			ping name and are ernment regulations
If I am large quantity generator. I certify that I have a program in place practicable and that I have selected the practicable method of treatment.	to reduce the volume and toxicity of a	waste genera	ated to t	he degree I have de	termined	to be economically
to me and that I can afford.	наки епол to minimize my waste gene	eration and s	elect the	best waste manager	ment me	lhod that is available
Printed/Typed Name	Signature	10			Ī	Mo. Day Year
Edwin B. Rahn for James F. Hartnett	1 Column 1	JKC6	100	ga <sup>k</sup>	.13	<u> 99,83,03</u>
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18. Transporter 2 Acknowledgement of Receipt of Materials	for a reconstruction of	1 April .	10,440	J	1	190203
Printed/Typed Name	Signature					Mo. Day Year
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19. Discrepancy Indication Space		• •		"	L_	
Act . Rec. 3/353 K			<u> </u>			
20. Facility Owner or Operator: Certification of receipt of hazardous mat		ept as note	d in Iten	n 19.		
Printed/Typed Name  NICOPIE Flock	Signature  M. C. M. J. J.	0	/		- 1	Mo. Day Year
1 13 13 Just providence 1 Kind Like	1 11 (CP #1 1 1 1 1 1	1100	2.1			コプルズケカモより



1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733869 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157745501

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 254149

09/25/03

DEPARTMENT OF ÉNVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS SINIE OF NEW TORK



Please type or print. Do not staple.

### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's M <sub>1</sub> Y <sub>1</sub> D <sub>1</sub> O <sub>1</sub> O	US EPA No.  2 2 3 9 4 4 5	Manifes O.1	t Doc. No.	2. Page	IIIIOIIII		in heavy bold y Federal La		
	3. Generator's Name and Mailing Address I NUAND FISHER GUIDE GM I GENERAL MOTORS DR SYPACUSE NY 13206 OU		<del></del>		<del>                                     </del>		IYB97	338	378		
	4. Generator's Telephone Number (33 5)	2-5314					erator's ID AMA				
	5. Transporter 1 (Company Name)  U.S. Bulk Transport		6. US EPA ID Number	C. State Transporter's ID/AP35762 NY D. Transporter's Telephone (ESS)65/8782							
	7. Transporter 2 (Company Name)		8. US EPA ID Number	<u> </u>	D. Transporter's Telephone (どのあ)のこれのもの。 E. State Transporter's ID						
			10. US EPA ID Numbe		F. Transporter's Telephone ( )						
	Designated Facility Name and Site Address					G. State	Facility ID		····		
	- CMM CHEMICAL SERVICES, 1550 BALMER RD. - MUDEL CITY NY 14107	tartisti.	  M_Y_D_O_4_9_6	3 3 6	679		lity Telephone(	823	)		
	44 US DOT D		<del></del>		12. Conta	<u></u>	13. Total	14. Unit	<u> </u>		
	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)			Number	1	Quantity	Wt/Vol	I. Waste	No		
	a RG, POLYCHLORINATED SOLID-MIXTURE,9,0N2	BIPHENY	LS,				EST.		EPA EPA	110.	
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FACILITY	20. Facility Owner or Operator: Certification of receip	t of hazardous mai	erials covered by this mar	nifest exce	ept as noted	in Item 19	3.	-	·		
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733878 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157746201

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES V DIVISION MANAGER Certificate # 254155

elected drugg

Certificate # 254155 at 09/25/03

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

# HAZARDOUS WASTE MANIFEST.

(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

# P.O. Box 12820, Albany, New York 12212

Segmentaries Name and Additional Address (N.C.AMPLE) 13 (14) 1		UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's	(US EPA No. よさしかけ ジェジェ		st Doc, No. 1, 0, 7, 4	2. Page	1 111011118		in heavy bo by Federal L			
C. Generator's Telephone Number (3) 1/3 2 3/3 1    S. Transporter (Company Name)		3. Generator's Name and Mailing Address GF		<del></del>		101111	A.	<u>-</u>	•				
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CHEMTREC EMERGENCY Response Number 1900/14/24-9300 WRI Contract ERGY17  INFOTRAC SIGNIFICATION: I hereby decisre 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.  If I am large quantity generator. I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; ORI if am a smaller generator. I have made a good faith effort to minimize my waste generation and select the best waste management method that is evailable to me which minimizes the present and future threat to human health and the environment; ORI if am a smaller generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is evailable to me which minimizes the present and future threat to human health and that I can allord.  Printed/Typed Name  Signature  Mo. Day Year  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Mo. Day Year  19. Discrepancy Indication Space  Acknowledgement of Receipt of Materials covered by this manifest except as noted in Item 19.  Printed/Typed Name  Signature  Mo. Day Year  Signature  Mo. Day Year  19. Discrepancy Indication Space		<u>b.</u>	ı d.		1		ь						
CHEMTREC Emergency Response Number 1900 1424-9380 WMI Contract ERG#171  INFOTRAC SIGNIFICATION: 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.  If I am large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health to me and that I can afford.  Printed/Typed Name  Signature  Wo. Day Year  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Signature  Mo. Day Year  19. Discrepancy Indication Space  Wo. Day Year  19. Discrepancy Indication Space  Signature  Signature  Signature  Signature  Mo. Day Year  19. Discrepancy Indication Space  Signature  Signature  Signature  Signature  Mo. Day Year  Signature  Mo. Day Year  Signature  Mo. Day Year  Signature  Signature  Mo. Day Year  Signature  Signature  Signature  Mo. Day Year  Signature  Mo. Day Year  Signature  Signature  Mo. Day Year  Signature  Signature  Mo. Day Year  Signature  Signature  Mo. Day Year  Signature  Mo. Day Year		15. Special Handling Instructions and Additional Info	rmation 4	123/03		Sk#	69	5/43	10	· ·			
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733887 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157747201

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 254164

09/25/03

OIVIE OF HERR FOUN DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# DIVISION OF SOLID & HAZARDOUS MATERIALS

1. Generator's US EPA No.

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Please type or print. Do not staple.

STRACTISE

**UNIFORM HAZARDOUS** 

WASTE MANIFEST

MA 11500 0000

4. Generator's Telephone Number ( 315 ) 132 5344

3. Generator's Name and Mailing Address INLAND FISHER CUIDE GENERAL MOTORS DR

### **HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212

Manifest Doc. No.

2. Page 1 of

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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733896 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157748601

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES V DIVISION MANAGER Certificate # 254175

09/25/03

# In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

NYB9733905

### STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# HAZARDOUS WASTE MANIFEST



Please type or print. Do not staple.

P.O. Box 12820, Albany, New York 12212

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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733905 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157746501

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES V DIVISION MANAGER Certificate # 254158

09/25/03

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

ease type or print. Do not staple.	P.O. Box 12820, Albany, New York		(Hazardous Wasle Manifest 5/00)
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733914 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157746801

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 254160 09/25/03

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

# HAZARDOUS WASTE MANIFEST

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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733923 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157746901

CWM Unit #: 1\*0 Disposal Date: 09/24/03

288 July

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER
Certificate # 254161

09/25/03

STALE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# P.O. Box 12820, Albany, New York 12212

	CWMI
(Hazardous Waste Manif	est 5/00)

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7. Transporter 2 (Company Name)		8. US EPA ID Number				tate Transporter's I		
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CWM CHEMICAL SERVICES,	A.A.C.		-		". "	nato i domity ib		
1550 BALMER RD. MODEL CITY MY 14107	679	H, F	acility Telephone(	823	}			
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20. Facility Owner or Operator: Certification of receip Printed/Typed Name		erials covered by this ma	nifest exc	ept as note	d in Iten	n 19.		
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733932 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157746101

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER

Certificate # 254154

09/25/03

STATE OF NEW YORK DEPARTMENT: OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

Please type or print. Do not staple.

# HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

	Cum
(Hazardous Waste Manif	est 5/00)

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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733941 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157745901

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER Certificate # 254152

09/25/03

DEPARTMEN'T OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

# P.O. Box 12820, Albany, New York 12212

UNIFORM HAZARDOUS	Generator's I		Manifes			2. Pag	ge 1 of Informa	tion with	in heavy bold line
WASTE MANIFEST  3. Generator's Name and Mailing Address	10 0 0 V	2,2,3,9,4,4,	001	$ \mathcal{O} ^{\mathcal{E}}$	<u>5/</u>		is not re	equired b	y Federal Law.
THEAND FISHER CUIDE ON STRACUSE NY 13206-04						A. B. G	NYB97	339	959
4. Generator's Telephone Number ( 315 )	12-5314						SAME		
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7. Transporter 2 (Company Name)	,	8. US EPA ID Numbe	r   -	<u> </u>		1	tate Transporter's I	· · · · ·	un angener venner var
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MODEL CITY MY 14107		N Y 0 0 4 9	8 3 6	1 -		<u> </u>	716 754	-823	
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1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733959 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157744601

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES ()
DIVISION MANAGER
Certificate # 254142

velicilly murd.

09/25/03

# NYB9733968 Please type or print. Do not staple.

STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

# DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

	UNIFORM HAZARDOUS	1. Generator's US	EPA No. [조] 호[왕[역] <sup>[4]</sup> [보	Manifest Doc. No.	2. Page	1 111101111411		heavy bold line Federal Law.
3.	WASTE MANIFEST  Generator's Name and Mailing Address INLAND FLORER GUIDE GR	14 1 10 10 10	5 No. 13	1 2 1 (v) men		NVDQ7	330	60
	e ceneral motors or					NYB973	) ) )	00
	SAKWESISE MA 1250F-64	86 2-5314				AME	, marie	ļ
	Generator's Telephone Number ( ) Transporter 1 (Company Name)		. US EPA ID Number		C. Sta	ate Transporter's II	AJ	87805-NY
٦	U.S. Bulk Transport	Inc. F	AD <u>4875</u>	<u>47575</u>	D. Tra	ansporter's Telepho	one 🥂	8816518182
7	Transporter 2 (Company Name)	8	. US EPA ID Number		<u></u>	ate Transporter's II		
_	Designated Facility Name and Site Address		0. US EPA ID Number			ansporter's Telepho ate Facility ID	nie /	
	OWN CHEMICAL SERVICES.		· • · · · · · · · · · · · · · · · · · ·		_	· .		
	1550 BALMER RD.	1	1 13 St. 75 In ca 4s	26479	H. Fa	cility Telephone (	-B23	}
_	MODEL CITY NY 14107		1700490	12. Cor	<u> </u>	13. Total	14. Unit	
1	1. US DOT Description (Including Proper Shippin	g Name, Hazard Clas	s and ID Number)	Number		Quantity	Wt/Vol	I. Waste No.
-	a. RO, POLYCHLORINATEL	BIPHENYL	S,			EST.		ËΡΑ
ļ	soild mixture, 9, un.	3115,111			la r	23,000	K	STATE 7
L				<u> </u>	1,1,	0 101010	<del>                                     </del>	EPA
İ	b			,				STATE
						111	<u> </u>	
T	c.				İ			EPA
					1 .	1.30.		STATE
$\vdash$	d.				1			EPA
1					(,	· ·	<b>,</b>	STATE
L					lK Hai	ndling Codes for W	Jastes Lis	sted Above
	J. Additional Descriptions for Materials listed Abo CP2002-PCB 5011.	ve			13. 1101	land codes is:	. ,	
	а	С.		<u> </u>	a.		C.	
١					1.			
L	b. 1 15. Special Handling Instructions and Additional Ir	oformation &	122/02	<u> </u>	D.	95143	<u>, 18</u>	
	a pra ant of service	Dave:	123/03	SK#_				G#171
1	CHEMTREC Emergency Res	Ponse Num	900) 93 1921 (1981)	5.5053	HU. (	nonuraus N. Contra		(387) 1 1
}	16. GENERATOR'S CERTIFICATION: The	ereby declare that the o	contents of this consignm	ent are fully and acc	curately d	escribed above by	proper st	nipping name and are
١	classified, packed, marked and labeled, and are i	n all respects in proper t	Condition for transport by	ngilitay according to	арричани.		•	_
	and state laws and regulations.  If I am large quantity generator. I certify that I h practicable and that I have selected the practicab and the environment; OR if I am a smaller genera	ave a program in place le method of treatment, itor, I have made a good	to reduce the volume and storage, or disposal curre faith effort to minimize my	i toxicity of waste ge ntly available to me w waste generation ar	nerated to hich minis id select ti	mizes the present au ne best waste mana	nd future t gement n	threat to human health nethod that is available
}	to me and that I can afford.		Signature (7)					Mo. Day Year
1	Edwin B. Roshn for knownes t	- Hospital It	Cole	win BKo	bun	y e <sup>ee</sup>	_	0714303
	17. Transporter 1 Acknowledgement of Receipt of	Materials						Mo. Day Year
Ħ	Printed/Typed Name		Signature	Barto	٠.			094303
TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt o	f Materials -		/ \ <u>_                                   </u>				
H.	Printed/Typed Name	`	Signature					Mo. Day Year
_	19 Discrepancy Indication Space							<u> </u>
	19. Discrepancy indication space	ak						
FACILITY	HU. tec. SUTC	<u> </u>	desire approved by this -	nanifact event as t	noted in 1			
FAC	20. Facility Owner or Operator: Certification of re Printed/Typed Name	ceipt of hazardous ma	Signature	namest except as i	TORGO III I	-	-	Mo. Day Year
	Michelle Fleck		Imul	10 FG	//			10454403



1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Federal EPA ID: NYD049836679

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C. has received waste material from INLAND FISHER GUIDE, GM on 09/24/03 as described on Hazardous Waste Manifest number NYB9733968 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157745801

CWM Unit #: 1\*0 Disposal Date: 09/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DIVISION MANAGER

Certificate # 254151

09/25/03

# NYB9734184 Please type or print. Do not staple. UNIFORM HAZ

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

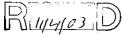
# STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212



(Hazardous Waste Manifest 5/00)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA <sup>M</sup> <sub>[3]</sub> [1] [1] [4] [4] [4]	, , , , , , , , , , , , , , , , , , ,	est Doc. No.	2. Page 1 of	Illionna		n heavy bold line y Federal Law.
3. Generator's Name and Mailing Address				Δ	-		
TOWNERAL MUTURS OF SYNAMUSE NY 13205-040				B. Generate		341	.84
4. Generator's Telephone Number ( 5 \$ 5 ) (13 )  5. Transporter 1 (Company Name)		EPA ID Number		SAM			1277 100
Tongwander Tank Tra	asport My	0,047,64	4801				25362 NY 7612739703
7. Transporter 2 (Company Name)		EPA ID Number		E. State Tra	insporter's I	D	
Designated Facility Name and Site Address	10. US	EPA ID Number	1 1	G. State Fa		orie (	<u>)</u>
OWN CHEMICAL SERVICES, 1550 BALNER RD.	laka (da			H. Facility T	elephone /	<del>-</del>	<u> </u>
MODEL CITY NY 14107	N <sub>1</sub> Y <sub>1</sub>	D <sub>1</sub> 0 <sub>1</sub> 4 <sub>1</sub> 9 <sub>1</sub> 8 <sub>1</sub> 3 <sub>1</sub> 6		730	5 754	-023	1
11. US DOT Description (Including Proper Shipping	Name, Hazard Class and I	D Number)	12. Cont Number		3. Total luantity	14. Unit Wt/Vot	I. Waste No.
a RO, FOLYCHLORINATED SOLID MIXTURE, 9, UN2	BIPHENYLS,	:			T.		EPA
OULD HYSTORE, 3 JOHA			0 0 1	D T 2.7	1000	К	BIAUF7
b.					1 - 1 - 1		EPA
		4			1 1 1		STATE
c. ·		1					EPA
:			11		1 13 1		STATE
d.	i.	1					EPA
	<u>'</u>				1 1 1		STATE
J. Additional Descriptions for Materials listed Above CR2002-PCB S011.				K. Handling C	odes for Wa	stes List	ed Above
a. 1 + f.		1	• 1	a.		c.	
b. 1 A 1	ı d.						
15. Special Handling Instructions and Additional Information PCB Out of Service De	mation	102	្រាស់	6984	128	] d.	
CHEMTREC Emergency Resp							#173
INFOTRAC 815	19150 /	(800) 535-5	5052	GM C	n tree	<i>†</i>	
GENERATOR'S CERTIFICATION: 1 hereby classified, packed, marked and labeled, and are in all and state laws and regulations.	v declare that the contents o	of this consignment are for	والمراجعة المحمد والما	and the state of the state of			ping name and are ernment regulations
If I am large quantity generator. I certity that I have practicable and that I have selected the practicable m and the environment; OR if I am a smaller generator, to me and that I can afford.							
Printed/Typed Name Edwin BRaha for James 1	F. Har The H	ture C	20.1			N	Mo. Day Year
17. Transporter 1 Acknowledgement of Receipt of Ma		cason o	21K/142 <u>1</u>	7			101618145
Printed/Typed Name 57 We W.V.	M Signat	ture Belle ?	low	M		ا ا	O Dayry Year
18. Transporter 2 Acknowledgement of Receipt of Ma Printed/Typed Name							
	L Sinnal	ture				, k	Mo. Day Year I
	Signal	ture .				ı"	Mo. Day Year
19. Discrepancy Indication Space	Signat	ture .	···		······································		l l l l l
act Rec. 1991	07K						
19. Discrepancy Indication Space  Control Rep.  20. Facility Owner or Operator: Certification of receipt  Printed/Typed Name	07K	vered by this manifest ex	cept as noted	3 in Item 19.			I I I I I







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

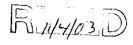
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9734184 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157915001 CWM Unit #: 1\*0

Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256309 10/30/03



STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# P.O. Box 12820, Albany, New York 12212

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	WASTE MANIFEST NIT OF O	US EPA No. Manifes   2  2  3  9  4  4  0    <i>Q</i>    <i>f</i>		2. Pag	l mionia		n heavy bold line y Federal Law.
	3. Generator's Name and Mailing Address I NLAND FISHER GUIDE GM 1 GENERAL MOTORS DR SYRACUSE NY 13206-0486			A.	NYB97	341	.93
-	4. Generator's Telephone Number (315)432 5314  5. Transporter (Company Name)	- H0 FD 10		1	SAME		74.5° 44.64.
	Butterle Fuel Corp.	6. US EPA ID Number  N Y R 0 0 0 0 0 4 5	224		tate Transporter's I ransporter's Teleph		45444 NY 60 6778602
	7. Transporter 2 (Company Name)	8. US EPA ID Number			tate Transporter's I ransporter's Teleph		)
	9. Designated Facility Name and Site Address  CVM_CHEMICAL_SERVICES_L_L_C.	10. US EPA ID Number		G. S	tate Facility ID		·
	1550 BALMER RD. MODEL CITY NY 1410?	N_Y_D_O_4_9_8_3_6	6.7.9	H. F	acility Telephone( 716 75年	-823	}
	11. US DOT Description (Including Proper Shipping Name, Hazard Cl	ass and ID Number)	12. Con Number		13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
	a. RQ, POLYCHLORINATED BIPHENY SOLIO MIXTURE, 9, UN2315, 111	1.5 ,			EST.	·	EPA
-	b.		001	O T	2,8,0,00	ĸ	STATE? EPA
5							STATE
בוונים האנים	c.						EPA
<u></u>			1 1				STATE
	d.			,			EPA
ļ	J. Additional Descriptions for Materials listed Above						STATE
İ	CP2002 - PCB SOTE, a.		<b>.</b> .	a.	dling Codes for Wa	istes List	ted Above
T	b. d.  15. Special Handling Instructions and Additional Information	0/28/03	5 <b>紀#</b>	b. //2	98428	d.	
-	CHENTREC Emergency Response Num	•					¥171
-	INFOTRAC 8151 4088  16. GENERATOR'S CERTIFICATION: I hereby declare that the	(600) 535 · 5					<del></del>
Ì	and state laws and regulations	condition for transport by nighway acc	ording to ap	plicable	international and nai	tional gov	ernment regulations
	If I am large quantity generator. I certify that I have a program in place practicable and that I have selected the practicable method of treatment, and the environment; OR if I am a smaller generator, I have made a good to me and that I can afford.	storage, or disposal currently evaliable I faith effort to minimize my waste gene	eration and s	ch minimi select the			
	Printed Typed Name Eduin BROWN to James Filky the 11	Signature Educin B	Rollin	v		1	Mo. Day Year
<b>-</b> ⊏	17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature		The second			Mo. Day Year
NSPOR ER	18. Transporter 2 Acknowledgement of Receipt of Materials	e Charle	<u></u>	C. C. C.	erruft	/	198893
<u> </u>	Printed/Typed Name	Signature	-				Mo. Day Year
1	19. Discrepancy Indication Space				·		<u> </u>
<u> </u>	20. Facility Owner or Operator: Certification of receipt of hazardous ma	<u></u>		- حا حا ا			
~ .	or eperator our mount of receipt of flazardous file						





INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

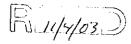
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9734193 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157908801

CWM Unit #: 1\*0 Disposal Date: 10/29/03

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RICHARD STURGES DISTRICT MANAGER Certificate # 256254 10/30/03



# In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

NYB9734202

Please type or print. Do not staple.

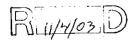
STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

# HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212



(Hazardous Waste Manifest 5/00)

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generators 別子(いり)			st Doc. No.	1	ge 1 of Inform	nation with required b	in heavy bold line by Federal Law.
	3. Generator's Name and Mailing Address. INLAND FISHER GUIDE OF I GENERAL MOTORS OR SYNACUSE NY 13206-044	2 <b>t</b> ni.				Α.	NYB97	7342	202
	4. Generator's Telephone Number ( 315 )43						SAME		
	5. Transporter 1 (Company Name) Tenauvanda Tenak Trans	c som to	6. US EPA ID		1000	C. S	State Transporter's		25378-NY
	7. Transporter 2 (Company Name)	Spar (	8. US EPA ID	9,7,64,4 Number	181011	-	ransporter's Telep state Transporter's		71618739763
	Designated Facility Name and Site Address		10. US EPA I	Number	<u> </u>	F. T	ransporter's Teler		)
	CWM CHEMICAL SERVICES,	L. L. C.	10. 00 21 7 12	, ituliizei		G. S	tate Facility ID		
	1550 BALMER RD. MODEL CITY NY 14107		N <sub>1</sub> Y <sub>1</sub> D <sub>1</sub> O <sub>1</sub>	4,9,8,3,6	6 7 9	H. F	acility Telephone		)
	11. US DOT Description (Including Proper Shipping	Name, Hazard C	lass and ID Numi	ber)	12. Cont		13. Total	14. Unit	
	RO, POLYCHLORINATED SOLID MIXTURE, 9, UN2.	HIPHENY	1.5 ,		Teamber	туро	Quantity EST.	Wi/Vol	I. Waste No. EPA
	outin miniong, 3, onz.	313,111			001	b T	2,000	Э K	BUATE?
	b.			<del></del>					EPA
	·					,	, , , ,		STATE
	c.								EPA
				···					STATE
	d.								EPA
				·	<u> </u>				STATE
	J. Additional Descriptions for Materials listed Above CP2002 - PCB 3011,					K. Han	dling Codes for V	Vastes List	ed Above
	a.   •	c.			<u>•                                      </u>	a.		C	
	_b;	d.		1	• :	b.		1 4	
	15. Special Handling Instructions and Additional Infor 6. PCB Out of Service Da	mation ate: 11	2/28/0	3	SR#		98428	3-3	
	CHEMTREC Emergency Resp	onse Num		Q)#24~93	OO WM	d Ca	ontract	ENG	#171
ı	16. GENERATOR'S CERTIFICATION: 1 hereby	57935	contents of this of	) 535 · 6					
ı	and state laws and regulations.	reapsete in proper	octation for traps	port by riighway act	building to ap	piicaole i	nternational and n	ational govi	ernment regulations
	If I am large quantity generator. I certify that I have a practicable and that I have selected the practicable mand the environment; OR if I am a smaller generator, to me and that I can afford.	a program in place lethod of treatment, I have made a good	to reduce the volu storage, or dispos faith effort to mini	ime and toxicity of al currently available mize my waste gen	waste gener e to me whic eration and s	ated to the h minimia elect the	he degree I have o zes the present an best waste manaç	determined d future thro sement met	to be economically eat to human health hod that is available
ı	Printed/Typed Name Edwin R. Rochin Following F. A	Gert 10 14	Signature	105 2	las		<del></del> -	N	Mo. Day Year
	17. Transporter 1 Acknowledgement of Receipt of Ma	·		<u> </u>	serjet (	-	·	1/	1028163
	STEPHAN KRUDN	icieu	Signature	6/h	· • • • • • • • • • • • • • • • • • • •	1	1 1 6	, N	No. Day Year
	18. Transporter 2 Acknowledgement of Receipt of Ma Printed/Typed Name		l Cinnat			<del>/`</del>	Jan	· I/	10/2/01/01/2
	Thinos Typos Hanto		Signature	, gr <sup>o</sup> r				٨	Mo. Day Year
	19. Discrepancy Indication Space	K,					<del></del>	1.	<del></del>
	act Ru. 20357	/ ) 							
	20. Facility Owner or Operator: Certification of receipt  Printed/Typed Name	of hazardous ma	terials covered by Signature .	this manifest exc	ept as noted	d in Item	19.		No. Dav- Year-
	Michelle Hedic	<del></del>	1 M/4	elell	Alex	, J		Ĵ	72703







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

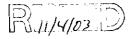
### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9734202 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157913501 CWM Unit #: 1\*0 Disposal Date: 10/29/03

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RICHARD STURGES DISTRICT MANAGER Certificate # 256297 10/30/03



### STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**



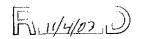
(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212

WASTE MANIFEST ₩   ¥   12   18	enerator's US EPA No. Ma 8   0   0   2   2   3   9   4   4   0   C	nifest Doc. No.	2. Pag	ii iioiiii at	tion within heavy bold line quired by Federal Law.
3. Generator's Name and Mailing Address INLAND FISHER GUIDE GM I GENERAL MOTORS DR SYRACUSE NY 13206-0486			Α.	NYB97	34211
Generator's Telephone Number ( ) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6. US EPA ID Number	1 34 = 3 -3 +1	C. St	SAPE ate Transporter's II	AU 88964 NY
Buffe to test temp.  7. Transporter 2 (Company Name)		<u> </u>	E. St	ate Transporter's II	<del></del>
Designated Facility Name and Site Address     CWM CHEMECAL SERVICES, L.L.	10. US EPA ID Number	<u>                                     </u>		ansporter's Telepho ate Facility ID	one ( )
1550 BALMER RD. MODEL CITY NY 14107	N Y D O 4 9 8 3	<del></del>	Щ.	cility Telephone(	
11. US DOT Description (Including Proper Shipping Name,     a. RQ, POLYCHLORINATED BIP	•	12. Cont	- 1	13. Total  Quantity  EST.	14. Unit Wt/Vol I. Waste No. EPA
SOLID MIXTURE, 9, UN2315,		១០៧	υŢ	30000	· · · · · · · · · · · · · · · · · · ·
b.					STATE
c.					EPA STATE
d.			1.		EPA
J. Additional Descriptions for Materials listed Above			K. Hand	L L L L	STATE stes Listed Above
CP2002-PCR SULL.	c	• 1	a.		с.
b. 15. Special Handling Instructions and Additional Information	d. 10/28/03	•	b.	1 D	d
a. PCB Out of Service Date: CHENTREC Emergency Response	e Number (800)424-		i C	18428	ERG#171
TWFOTRIC \$1579119  16. GENERATOR'S CERTIFICATION: I hereby declar classified, packed, marked and labeled, and are in all respect	re that the contents of this consignment ar	e fully and accur	ately dec	cribed above by or	oper chipping name and are
and state laws and regulations.  If I am large quantity generator. I certify that I have a progra practicable and that I have selected the practicable method of and the environment; OR if I am a smaller generator, I have me to me and that I can afford.	i treatment storane or disposal currently av	ailahla ta ma whic	h minimiz	toe the procent and	future threat to human health
Printed/Typed Name Edwin B Rahn for James F. Han	Anett Signature Eduin	BR Sh	yr.	· · · · · · · · · · · · · · · · · · ·	Mo. Day Yea
17. Transporter 1 Acknowledgement of Receipt of Materials  Printed Typed Name  A T S C C C C C C C C C C C C C C C C C C	Signature and	Jack	giornia. Contract	K.	Mo. Day Yea
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	/			Mo. Day Yea
19. Discrepancy Indication Space  Actual Red	501731			\ <del>-</del> \	
20. Facility Owner or Operator: Certification of receipt of haz	ardous materials covered by this manifes				Mo. Day Yea







INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9734211 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157911901

CWM Unit #: 1\*0 Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256281 10/30/03

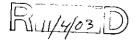


In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

### STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST

lea	se type or print. Do not staple.	P.O. Box 128	320, Albany, New	York 1	2212			(Haz	ardous Waste Manifest 5/00)
	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's	US EPA No. [조]조[조] <sup>9</sup> ] 사[사]		t Doc. No.	2. Pag	Illivilliai		n heavy bold line v Federal Law.
	3. Generator's Name and Mailing Address INLAND FISHER WILDS GR I GENERAL MULCIES OR SYRACUSE NY 13206-04	À		<u> </u>	1 LP (C)	A. B. Ge	NYB973	•	<u></u>
	4. Generator's Telephone Number ( )  5. Transporter 1 (Company Name)  1. Onc Wan da Tank Trans  7. Transporter 2 (Company Name)		6. US EPA ID Number N V D O 9 7 16 8. US EPA ID Number	644	18101	C. St D. Tr	ate Transporter's II ansporter's Telepho ate Transporter's II	one ()	25364-NY 716) 873 570
	9. Designated Facility Name and Site Address UNR CHEPLUAL SERVICES.	L.U.C.	10. US EPA ID Numbe	r Fr	<u> </u>		ansporter's Telepho ate Facility ID	one (	)
	1550 BALMER RD. MODEL CITY NY 14107		<b>N</b> Y D O 4 9	5 <sub>1</sub> 3 <sub>1</sub> 6			acility Telephone (		) 1
	11. US DOT Description (Including Proper Shippin	g Name, Hazard Cla	ass and ID Number)		12. Conta Number	- 1	13. Total Quantity	14. Unit WVVol	I. Waste No.
	a. RQ, POLYCHLORINATED SOLID MIXTURE,9,UN2	BIPHENY 315,111	1,5,		១០៦	D _T	EST. 2 <sub>1</sub> 0 <sub>1</sub> 0 <sub>1</sub> 0 <sub>0</sub> 0	ĸ	STATE?
ATOR	b.					_			EPA STATE
GENERATOR	C								EPA STATE
	d.								EPA STATE
	J. Additional Descriptions for Materials listed Abov CP2002-PCB SOLL,	е с.		1	•	K. Hand	dling Codes for Wa	stes List	ed Above
	b.  15. Special Handling Instructions and Additional Info.  a. PCB Out of Service I	ormation	726/03		SR#	b.	8428-	d.	
	TNEUTRAC Emergency Resp	9162	(800) 5.	35 S	1053	61	M Contrac	1	
	16. GENERATOR'S CERTIFICATION: I here classified, packed, marked and labeled, and are in and state laws and regulations. If I am large quantity generator. I certify that I have practicable and that I have selected the practicable.	aii respecis in proper e a program in place	to reduce the volume and	toxicity of	cording to app	plicable i	nternational and nat	ional gov	ernment regulations
	and the environment; OR if I am a smaller generato to me and that I can afford.  Printed/Typed Name  Edul, a Blacha for Jame F.	r, i have made a good	Signature	waste gene	eration and s	elect the	best waste manage	ment met	thod that is available  Mo. Day Year
EB	17. Transporter 1 Acknowledgement of Receipt of No. Printed/Typed Name		Signature	m E	r Cha N	M			$(O_1 Z_1 S_1 O_1 S_1)$ Mo. Day Year
TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name	faterials	Signature	<u> </u>	MARRA	1200			1 0 7 8 0 5 Mo. Day Year
FACILITY	19. Discrepancy Indication Space	1752 K	, )						
FAC	20. Facility Owner or Operator: Certification of recei	pt of hazardous ma	terials covered by this management of the serial scovered by this management of the serial scovered by this management of the serial scovered by this management of the serial scovered by this management of the serial scovered by this management of the serial scovered by this management of the serial scovered by this management of the serial scovered by this management of the serial scovered by this management of the serial scovered by this management of the serial scovered by the serial score s	· · ·		d in Iten	n 19.		Mo. Day Year // 02 903







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

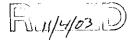
### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9734229 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157916201 CWM Unit #: 1\*0 Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 256319
10/30/03



### STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

Please type or print. Do not staple.

### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

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	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's	: US EPA No. 구강[2] (하[9] 4] 4[1		t Doc. No.	2. Page	, i iiioiiiid		in heavy bold line ly Federal Law.
	3. Generator's Name and Mailing Address INLAND FIBHER GUIDE GM I GENERAL MOTORS DR SYRACUSE MY 13206-044	4c	·.		<u> </u>	L	VYB97	342	238
	4. Generator's Telephone Number (315)			Ç.	EK		AME		
	5. Transporter 1 (Company Name)		6. US EPA ID Numbe		72,4		te Transporter's II	A.	2468916
	Buttalo Fuel Curp.		NYRDOO	45.7	and the same		nsporter's Telepho	_	500 6 178 We
	7. Transporter 2 (Company Name)		8. US EPA ID Numbe	<del>^</del>	JL		te Transporter's II	:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				1 1	1 1 1	F. Trai	nsporter's Telepho	one (	)
	Designated Facility Name and Site Address		10. US EPA ID Numbe	er	· · · · · · · · · · · · · · · · · · ·	G. Sta	te Facility ID		
	CWM CHEMICAL SERVICES, 1550 BALMER RD. MODEL CITY NY 14107	L. L. L.	N, Y, D, O, 4, 9;	6 ዓ ሕ	6 T 4	H. Faç	ility Telephone(	000	}
			<del>                                     </del>			Щ.			
	11. US DOT Description (Including Proper Shipping	Name, Hazard C	lass and ID Number)		12. Cont		13. Total	14. Unit	
	a. RQ, POLYCHLORINATED	REPRENY	LS		Number	Туре	Quantity EST.	Wt/Vol	I. Waste No. EPA
	SOLID MIXTURE, 9, UN2	315,111	\$(+ <b>*</b> -;] <b>*</b>		១១៦		2,8,0,0,0	ĸ	STATE?
	b.					-	41.71.8 1. 1. 1.		EPA
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	J. Additional Descriptions for Materials listed Above					K. Handli	ing Codes for Wa	stes List	ed Above
Ì	CP2002 PCB SOIL						ŧ.,		
		c.				a.		С.	
1	b.  15. Special Handling Instructions and Additional Info	d.	-/25/ 2	<u> </u>	1.	b.	<u> </u>	d.	
	a. PCB Out of Service D	ata: //	7/28/03		SRA	to ment own the street confe	8428 -		5157912
	CHENTREC Emergency Resp INFOTRAC	onse Num	ber (800)4. (800) 5.				ntract Contrac		#171
	<ol> <li>GENERATOR'S CERTIFICATION: I herebe classified, packed, marked and labeled, and are in a and state laws and regulations.</li> </ol>	ii respects iii proper	condition for transport by n	ignway acc	ording to app	olicable int	ernational and nati	onal gov	ernment regulations
	If it am large quantity generator. I certify that I have practicable and that I have selected the practicable n and the environment; OR if I am a smaller generator, to me and that I can afford.	I have made a good	storage, or disposal currer I faith effort to minimize my						
	Printed/Typed Name Lahn for James	F. Hearthet	Signature La	in C	Robin	w	<del></del>	۸ . /	Mo. Day Year
	17. Transporter 1 Acknowledgement of Receipt of Ma	aterials	1		4				<del> </del>
ביי ו	Printed/Typed Name	or.	Signature	A. 0	Ulas	Ru	-	N	Mo. Day Year
2	18. Transporter 2 Acknowledgement of Receipt of Ma	iterials		_	,				<del>''</del>
5	Printed/Typed Name		Signature					N	Mo. Day Year
-	19. Discrepancy Indication Space							1	<u></u>
		#5 a - 2							
	actual Red	2769	17K_						
2	20. Facility Owner or Operator: Certification of receip	t of hazardous ma	terials covered by this ma	nifest exc	ept as noted	in Item 1	19.		
	Printed/Typed Name ELLEDW CAR		Signature	1	CAK	Ly	> .	N 1	Mo. Day Year

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362





INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

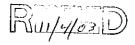
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9734238 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157912401

CWM Unit #: 1\*0 Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER
Certificate # 256286
10/30/03



In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# STATE OF NEW YORK PEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

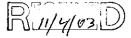
### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212



Please type or print. Do not staple.

(Hazardous Waste Manifest 5/00)

	WASTE MANIFEST ALE OF THE STATE	<u> </u>	1 / 1 / 10	2, ray	l illollia		n heavy bold line y Federal Law.
	3. Generator's Name and Mailing Address INLAND FESHER COLDE CR			Α.	NVDQ7	2 / 2	17
	I GENERAL MOTORS OR				NYB97	342	.4 /
	SYRACUSE NY 13206-0486 4. Generator's Telephone Number ( ) 15 14 22 5314				enerator's ID うみがに		
ŀ	5. Transporter 1 (Company Name)	6. US EPA ID Number	<del></del>		tate Transporter's II	Aŭ.	218/2. NV
	Buttalo Fuel Corp.	MY1R0000045	171214				3001677802
	7. Transporter 2 (Company Name)	8. US EPA ID Number		_	tate Transporter's II		
	Designated Facility Name and Site Address	10. US EPA ID Number			ansporter's Telepho	one (	)
	CWM CHEMICAL SERVICES, L.L.C.	IV. US EFA ID NUITIDEI		G. S	tate Facility ID		
İ	1550 BALMER RD.			—. Н. Fa	acility Telephone (		)
	MODEL CITY MY 14107	N 7 D O 4 9 8 3 6	679		716, 754-	623	á projecti de la companya de la comp
	11. US DOT Description (Including Proper Shipping Name, Hazard Cl.	ass and ID Number)	12. Cont		13. Total	14. Unit	
I	a. van tyre viras regalenda anavera viltelentv	1 29	Number	Туре	Quantity	Wt/Vol	I. Waste No. EPA
	RQ, POLYCHLORINATED BIPHENY SOLID MIXTURE, 9, UN2315, 111	ko 🖰 🖟			EST,		
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	b.						EPA
TOR TOR	F.						STATE
GENERATOR	С.						EPA
8					į		
							STATE
	d.	1					EPA
							STATE
	J. Additional Descriptions for Materials listed Above	<del></del>	<u> </u>	K. Han	dling Codes for Wa	stes List	ed Above
	a. CP2002-PCB SOIL				<b>1</b>		
			<u> </u>	a.		C.	
	h			_			
	15. Special Handling Instructions and Additional Information	0/28/03	P	1-6	Q4120 -	_0. ~?∧	
					8428-		
	CHEMIREC Emergency Response Num						#171
	16. GENERATOR'S CERTIFICATION: I hereby declare that the	(800) 535 5	0.5 m	<u> </u>	M Cantra	2 / J	
	classified, packed, marked and labeled, and are in all respects in proper and state laws and regulations.	condition for transport by highway acc	cording to ap	plicable	international and nat	ional gov	ernment regulations
	If I am large quantity generator. I certify that I have a program in place practicable and that I have selected the practicable method of treatment,	to reduce the volume and toxicity of	waste gener	ated to t	he degree I have de	termined	to be economically
	and the environment; OR if I am a smaller generator, I have made a good to me and that I can afford.	storage, or disposar currently available I faith effort to minimize my waste gen	eration and s	elect the	zes ine present and best waste manage	nuture inr ment met	eat to numan nealth thod that is available
	Printed/Typed Name	Signature	<u> </u>	<del></del>			Mo. Day Year
	Edwir B. Rahr tot James F. Kula H	I advint	Chron	/		1.	402803
œ	17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name , / / ~	100-1-1	· · · · ·				
Ä	Douglas K STANGE	Signature	John	 O		!	Mo. Day, Year,
TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials	1	Solone Man	, The Line			
Æ	Printed/Typed Name	Signature			· · · · · · · · · · · · · · · · · · ·	Ī	Mo. Day Year
_						i	<del></del>
	19. Discrepancy Indication Space	1/2201V					
È	actual relation	26281K					
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous ma	T	ept as note	d in Iter	n 19.		
	Printed/Typed Name	Signature	7	1	· · · · · · · · · · · · · · · · · · ·	-	Mo. Day Year
L_	1111Clade 11Ch		(LLCA	-3·/-"		L	1(CXXXIQX)







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

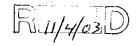
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9734247 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157912201

CWM Unit #: 1\*0 Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES V DISTRICT MANAGER Certificate # 256284 10/30/03



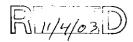
# STATE OF NEW YORK DEPARTMENT: OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212



Please type or print. Do not staple. P.O. Box 12820, Albany, New York 12212 (Hazzırdous Waste Manifest 500)

	WASTE MANIFEST	N Y D O O	12,2,3,9,4,4,0 0, 1	SI DOC. NO.	2. Pag	-   1111011110		in heavy bold line y Federal Law.
	3. Generator's Name and Mailling Address FILAND FISHER GUIDE GM 1. GENERAL MOTORS DR SYRACUSE NY 13206-04-	06				NYB97	342	256
	4. Generator's Telephone Number ( 315 )#3	2-5314				SAME		
	5. Transporter 1 (Company Name)	Т.,	6. US EPA ID Number	م رس	C. S	tate Transporter's I		75899 NY
	U. S. Bulk Transport, 7. Transporter 2 (Company Name)	JAC.	PAP987347	<u> </u>		ansporter's Teleph		188 1851818 Z
	7. Hansporter 2 (Company Rame)		8. US EPA ID Number			tate Transporter's I		
	Designated Facility Name and Site Address		10. US EPA ID Number			ansporter's Telephetate Facility ID	one (	)
	UNM CHEMICAL SERVICES,	L.L.C.			u. 3	iale Facility ID		1
	1550 BALMER RD, MODEL CITY NY 14107		   <mark>8</mark>  7 D O 4 9 8 3 6	6.7.9	H. Fa	acility Telephone(	823	{
ļ	11. US DOT Description (Including Proper Shipping	Name. Hazard C	lass and ID Number)	12. Cont	ainers	13. Total	14. Unit	
				Number	Туре	Quantity	Wi/Vol	I. Waste No.
	* RQ. POLYCHLORINATED SOLID MIXTURE, 9, UN2	BIPHENY 315,111	LS,	0.0.1		EST.		STATE/
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ERATOR					١. ا	l <i>.</i> .		STATE
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	d.							EPA
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	J. Additional Descriptions for Materials listed Above		·	<del></del>	K. Han	dling Codes for Wa	astes List	ted Above
	GR2002~PUB SOIL  a.	, C.	t		a.		I c.	
				7	···			
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	b.   •	į d.		<b>∳</b> I	ъ.		d.	
	b. 15. Special Handling Instructions and Additional Info a. PCB Out. Of Service D	rmation /	0/28/03	<u>•                                     </u>	b.	<u> </u>	d.	Same approximate page
	15. Special Handling Instructions and Additional Info a. PCB Out of Service D CHEMIREC Emergency Resp	rmation /	nber (800)424-93	00 <b>u</b> m	d Ci	ontract	EKG	W171
	15. Special Handling Instructions and Additional Info a. PCB Out of Service D CHEMIREC Emergency Resp	rmation /whe; /whe; /whe; /whe; /white	nber (800) 424-93 (800) 535-0	00 UM 5053	G.	ontract.  M Con Va	EKG	ning name and ave
	15. Special Handling Instructions and Additional Info a. PCB Out. Of Service D CHENTREC Emergency Resp TWC77711  16. GENERATOR'S CERTIFICATION: I herel classified, packed, marked and labeled, and are in a and state laws and regulations.  If I am large quantity generator. I certify that I have practicable and that I have selected the practicable r and the environment; OR if I am a smaller generator.	mation White:  OTESE NUM 579120  by declare that the all respects in proper	contents of this consignment are full reduce the volume and toxicity of storage or disposal currently available.	y and accurrently to ap	ately desplicable i	on he act.  M Con Vac  corribed above by printernational and nat	EKG	ping name and are ernment regulations
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In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

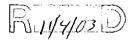
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9734256 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157912001

CWM Unit #: 1\*0 Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES V DISTRICT MANAGER Certificate # 256282 10/30/03



# NYB9734265 Please type or print. Do not staple.

# STATE OF NEW YORK DEPARTMENT, OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212



(Hazardous Waste Manifest 5/00)

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA No. <u>************************************</u>	Manifest Doc.    4_4_0		Information within is not required by							
	Generator's Name and Mailing Address     NLAMU FISHER CUIDE CM     GENERAL MOTORS DR				B97342	65						
	in and in the priority frame of	2-5314			B. Generator's ID							
	5. Transporter 1 (Company Name)	6. US EPA ID D. A. D. 9	Number 8 7 3 4 7 5 /	C. State Tra		36220-174						
	7. Transporter 2 (Company Name)	8. US EPA ID	Number		D. Transporter's Telephone (\$86)6518182 E. State Transporter's ID							
	Designated Facility Name and Site Address	10. US EPA ID	 Number	·	F. Transporter's Telephone ( ) G. State Facility ID							
	CWM CHEMICAL SERVICES, 1550 BALMER RD.											
	MODEL CITY NY 14107	N <sub>1</sub> Y <sub>1</sub> D <sub>1</sub> O <sub>1</sub>	4983667	H. Facility T	elephone ( 5 754 - 823)	}						
	11. US DOT Description (Including Proper Shipping	Name, Hazard Class and ID Numb	ber)		3. Total 14. Unit	I. Waste No.						
	a NO, POLYCHLORINATED SOLID MIXTURE, 9, UN2	BIPHENYLS,		100	T.	EPA						
	b.		0.0	10729	1000 K	STATE?						
Ä	D.					EPA						
GENERATOR	C.			<del>                                     </del>		STATE						
SE.	v.					EPA STATE						
	d.				<del></del>	EPA						
						STATE						
	J. Additional Descriptions for Materials listed Above	<del>, , , , , , , , , , , , , , , , , , , </del>		K Handling C	Odes for Wastes List							
	CP2002-PCB SOIL	į с.		8.	c.							
		Section Section 1	i I			. [						
	b. 15. Special Handling Instructions and Additional Infor	mation 10/20/0	· · · · · ·	b. /. G. O	[] d.	1 3						
	a. PCB Out of Service D CHEMTREC Emergency Resp	7	1		428-9 rack ERG							
	INFOTRAC 05	79129 1800	D 535-5053	GM Con	treet							
	<ol> <li>GENERATOR'S CERTIFICATION: I hereb classified, packed, marked and labeled, and are in al and state laws and regulations.</li> </ol>	y declare that the contents of this co il respects in proper condition for trans	onsignment are fully and a port by highway according t	ccurately described to applicable internat	above by proper shipp onal and national gove	oing name and are rnment regulations						
	If I am large quantity generator, I certify that I have practicable and that I have selected the practicable mand the environment. OR if I am a smaller generator.	nelijoo oj ireaiment storade or dispos	an of oldelieue ultroatus les	sahiah miniminas da Ika								
	and the environment; OR if I am a smaller generator, to me and that I can afford.  Printed/Typed Name	Signature 7	waste generation a	and select the best w	<u> </u>	nod that is available						
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TER	Printed/Typed Name	Signature \	. 15 /	907-	N N	lo. Day Year						
TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Ma	terials	One town	Metro	4 1/	103803						
TRA TRA	Printed/Typed Name	Signature				lo. Day Year						
	19. Discrepancy Indication Space		······································			<del>                                     </del>						
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51	UCL-Nec. CATI	$(\infty r)$										
FACILITY	20. Facility Owner or Operator: Certification of receip	<del></del>	y this manifest except as	noted in Item 19.								
FACILI	20. Facility Owner or Operator: Certification of receip  Printed Typed, Name  Printed Typed, Name	t of hazardous materials covered by	y this manifest except as	noted in Item 19.	N	o. Day Year						

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

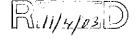
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9734265 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157912901

CWM Unit #: 1\*0 Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 256291
10/30/03



### STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

(Hazardous Waste Manifest 5/00)

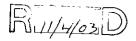
Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

### **HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212

1. Generator's US EPA No.

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's	US EPA No.  2 2 3 9 4 4	Manifes () () ()	t Doc. No.	2. Page	mioria		n heavy bold line y Federal Law.		
	3. Generator's Name and Mailing Address INLAND FISHER GUIDE GM I GENERAL MOTORS DR SYRACUSE NY 13206-04					A.	NYB97	342	74		
	4. Generator's Telephone Number (きまち)	2-5314					SAME				
	5. Transporter 1 (Company Name) U.S. Bulk Transport	Tele.	6. US EPA ID Number	347	515	C. State Transporter's ID / 10 95876 NY D. Transporter's Telephone (888) 6218137					
Ì	7. Transporter 2 (Company Name)	<u> </u>	8. US EPA ID Numbe			E. State Transporter's ID					
	Designated Facility Name and Site Address		10. US EPA ID Numb	er	<u> </u>	F. Transporter's Telephone ( ) G. State Facility ID					
	CWM CHEMICAL SERVICES, 1550 BALMER RD. MODEL CITY NY 14107	to the state of	, <u> </u>				H. Facility Telephone ( )				
		<del>                                     </del>	<u>ο<sub>1</sub>υ<sub>1</sub>ο</u>	12. Con		716 754 -	. (3 ∡ .) [14. Unit	<u>'</u>			
	11. US DOT Description (Including Proper Shipping		<u> </u>		Number	Туре	Quantity	WVVoI	I. Waste No.		
	RQ, FOLYCHLORINATED SOLID MIXTURE,9, UN2	HIPHENY 315,111	1.8 ,				EST.	a e			
	b.		· · · · · · · · · · · · · · · · · · ·		001	DT	300000	1 (	PSTATE/		
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GENERATOR	c.		<del>-</del>		<u> </u>	1 1	ļ		EPA		
SE SE								ļ	STATE		
	d.							<del>                                     </del>	EPA		
v	# *								STATE		
	J. Additional Descriptions for Materials listed Above	e				K. Hand	dling Codes for Wa	astes Lis	ted Above		
	CF2002-FCB SOB.	I I <sup>C.</sup>		ı	<b>•</b> 1	a.	È.,	[ c.			
		۵.									
ļ	b. 15. Special Handling Instructions and Additional Info	l l d. prmation /	10/20/23		<u>• 1</u>	b.	301/20	d. ,			
	a. FCB Out of Service t	Mie;	10/28/03		SR#	- San Carrier Service	78428	erana Tanana			
		579121	<u>(800) S</u>	35.5c	) <u>5</u>	611	1 Contrac	*	4171		
	16. GENERATOR'S CERTIFICATION: I here classified, packed, marked and labeled, and are in and state laws and regulations.  If I am large quantity generator. I certify that I have	all respects in proper	r condition for transport by	highway ac	cording to a	pplicable i	nternational and na	tional gov	ernment regulations		
	practicable and that I have selected the practicable and the environment; OR if I am a smaller generate to me and that I can afford.	method of treatment r, I have made a goo	t, storage, or disposal curre of faith effort to minimize m	ently availabl y waste gen	le to me wh eration and	ich minimi: select the	zes the present and	future th	reat to human health		
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Œ	17. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name	faterials	Signature	Jan Jan Jak	**************************************				Mo. Day Year		
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TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name	Materials	Signature		<u></u>				Mo. Day Year		
	19. Discrepancy Indication Space				<u> </u>			. 1			
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FACILITY	20. Facility Owner or Operator: Certification of recel	pt of hazardous ma	1 -5.			ted in Iten	n 19.		Mo o Bay/1 Vacin		
	Michelle Heal		Mu	W	HU	ld		1	70343		







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9734274 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157912101

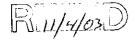
CWM Unit #: 1\*0 Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256283 10/30/03

our Customer Service Dept. at (800) 843-3604

For questions please call



# In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# NYB9704835

STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**



Please type or print. Do not staple.

P.O. Box 12820, Albany, New York 12212

UNIFORM HAZARDOUS- 1. Generators WASTE MANIFEST NATION D	s US EPA No. Manifi _{2	est Doc. No.	2. Page 1	mormat		n heavy bold line / Federal Law.
3. Generator's Name and Mailing Address INLAND FISHER GUIDE GM I GENERAL MOTORS DR			Δ	YB970	)48	35
SYNACUSE   NY 13206-0486   4. Generator's Telephone Number (315 )   132-5314				ME		
5. Transporter 1 (Company Name)	6. US EPA ID Number				116	25361-NY
Tonguero da Tank Transport	MYDO97,64	$9.8_{\mathrm{i}}O_{\mathrm{i}}I$	1	porter's Telepho		16873910
7. Transporter 2 (Company Name)	8. US EPA ID Number		E. State	Transporter's IC	)	
O. Davisanda Fraille Marsand O'C. Aller	<u> </u>			porter's Telepho	one (	)
9. Designated Facility Name and Site Address  UNN CHERICAL SERVICES, L.L.C.	10. US EPA ID Number		G. State	Facility ID		ļ
1550 BALMER RD.	6 3 to 1	Ç.	H Facili	ty Telephone (		<u>,                                      </u>
MODEL CITY MY 19107	<b>8</b> Y D 6 4 9 8 3 6	- +	7	16 754-		
11. US DOT Description (Including Proper Shipping Name, Hazard (	Class and ID Number)	12. Cont Number		13. Total Quantity	14. Unit Wt/Vol	ļ
a. RO POLYCHIORINATED BEPHENY	4 S .	140111061	<del></del>	EST.	**1/*01	I. Waste No. EPA
a RQ, POLYCHLORINATED BIPHENY SOLID MIXTURE, 9, UN2315, 111	3.4.c. 4		_	,		STATE?
b.		001	D # 2	<u> </u>	K	
В.						EPA
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c.				<del>                                      </del>		EPA
						STATE
d.		<del>                                      </del>	<del> </del>	<u> </u>		EPA
						STATE
<u> </u>						
J. Additional Descriptions for Materials listed Above  CP2002 - PCB SOTE.	ì		K. Handlin	g Codes for Wa	istes Lis	ted Above
а с.		+ 1	a		C.	
						<u> </u>
b.   •   ; d.		<b>•</b> i	b.		d.	
A CONTRACT OF STATE O	0/28/03	58# <sub></sub>	·	428-	9	dede of the transfer
CHEMTREC Emergency Response Nu JNFOTRAC 81579137	mber (800)424.9 (800)535.		H Con	lract	erg	#171
16. GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labeled, and are in all respects in propulations.	e contents of this consignment are ter condition for transport by highway	fully and accur according to a	rately descrit oplicable inte	ped above by pr rnational and na	oper ship tional gov	pping name and are ernment regulations
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18. Transporter 2 Acknowledgement of Receipt of Materials	11000	J. Salling	, , , , ,	<del></del>	<u>.</u> <u>.</u>	Pr True Parage
Printed/Typed Name	Signature					Mo. Day Year
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19. Discrepancy Indication Space						
act the 21854K						
20. Facility Owner or Operator: Certification of receipt of hazardous r						
Printed/Typed Name	naterials covered by this manifest	except as not	ed in Item 1	9.		







INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9704835 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157913701 CWM Unit #: 1\*0

Disposal Date: 10/29/03

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 persons who acting under my direct instructions made the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256299 10/30/03

For questions please call our Customer Service Dept. at (800) 843-3604

FU1/4/03 D

# In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# NYB9704844

Please type or print. Do not staple.

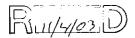
STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212



DX 12820, Albany, New York 12212 (Hazardous Waste Manifest 5/00)

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	Generator's Name and Mailing Address     NLABD PISHER GUIDE CH     GENERAL MOTORS DR	-1- 1 J				t	YB97	048	344			
	SYRACUSE NY 13206-0486 4. Generator's Telephone Number (315) 432-5	314				B. Gener						
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	Transminda Tank Transpir	1 /	V14 121014	76944	1801		orter's Teleph		211a) 8733			
	7. Transporter 2 (Company Name)		8. US EPA ID Nu			E. State	Transporter's i					
ŀ	Designated Facility Name and Site Address		10. US EPA ID N	L		,	oorter's Teleph	one (	)	·		
	CVM CHEMICAL SERVICES, L.1		10, 03 EFA ID N	umbei		G. State	Facility ID					
	1550 BALMER RD. HODEL CITY NY 14107	1	 				H. Facility Telephone ( )					
t	11. US DOT Description (Including Proper Shipping Name			L <u>I</u>	12. Cont	ainers	13. Total	14. Unit				
	11. US DOT Description (moduling Proper Shipping Name	s, riazaiu Olas	ss and it mumber	) 	Number	Туре	Quantity	Wt/Vol	I. Waste N	No.		
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### WASTE MANAGEMENT, INC.

CWM Chemical Services, L.L.C. 1550 Balmer Rd. P.O. Box 200 Model City, N.Y. 14107 716/754-8231

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

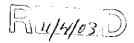
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9704844 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157909001

CWM Unit #: 1\*0 Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 256256
10/30/03



DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

TRANSPORTER

P.O. Box 12820, Albany, New York 12212

UNIFORM HAZARDOUS  WASTE MANIFEST  UNIFORM HAZARDOUS  1. Generator's	US EPA No. Manife		2. Page	{ mononia	ition within	n heavy bold line / Federal Law.
3. Generator's Name and Mailing Address INLAND FISHER GUIDE GM 1 GENERAL MOTORS DR		<u> </u>	A.	YB97		
SYRACUSE NY 13206 - 0486 4. Generator's Telephone Number (315 #32-5314				erator's ID 4 F1 F		
5. Transporter 1 (Company Name)	6. US EPA ID Number		<b>.</b>		D 4 C S	10405-NY
7. Transporter 2 (Company Name)	PAD987347 8. US EPA ID Number	7515		sporter's Teleph		8816518182
7. Indispose 2 (company realite)	!			e Transporter's I		
Designated Facility Name and Site Address	10. US EPA ID Number	1 1 1		sporter's Teleph e Facility ID	one (	)
CWM CHEMICAL SERVICES, L.L.C.			l ar olar	o i domy ib		
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		12. Cont		13. Total	14. Unit	
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ASSESS HITESORY STURGOLD LEE		101	DI Z	8000	A N.	STATE,
b.		<del>                                     </del>		1 10 10		EPA
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C.		<del></del>		<u>i                                    </u>		EPA
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d.		<u> </u>		1 1 1		STATE
<b>U.</b>						EPA
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J. Additional Descriptions for Materials listed Above		<del></del>	K. Handlir	ng Codes for Wa	istes Liste	ed Above
a. CP2003-PCB SOLL c.	* 1	• t	a.	€.	<b>l</b> c.	
		<del></del>			<del>                                     </del>	
b.   •     d.		<u></u>	b.		d.	
	128/03	SRA	(a. c (a) b a c	8428		ested grad to Ar
CHEMTREC Emergency Response Num  INFOTRAC SISMOISS	ber (800)424-93	NW COS				1171
	<u>(800) 535-51</u>	153	<u>6m</u>	Contract	<i>-</i>	
<ol> <li>GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labeled, and are in all respects in proper and state laws and regulations.</li> </ol>	condition for transport by highway a	ily and accurate ording to app	ately descril plicable inte	oed above by pro rnational and nat	oper shipp ional gove	ing name and are rnment regulations
If I am large quantity generator. I certify that I have a program in place practicable and that I have selected the practicable method of treatment, and the environment; OR if I am a smaller generator, I have made a good to me and that I can afford.	to reduce the volume and toxicity o storage, or disposal currently availal faith effort to minimize my waste get	f waste generable to me which neration and s	ated to the h minimizes elect the be	degree I have de the present and st waste manage	termined t future thre ment meth	to be economically at to human health and that is available
Printed/Typed Name Edwin B. Robin for James F. Hertne H	Signature (	12 1				o Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials	Celuin B.	Kahin	<i>•</i>		/	02803
Printed/Typed Name	Signature	73		· .	М	Day Vari
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18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name						
Traited typed Name	Signature				<b>M</b>	o. Day Year
19. Discrepancy Indication Space	· <del>L</del>					1 1 1
ad. Rec 30173 K						
20. Facility Owner or Operator: Certification of receipt of hazardous mat	erials covered by this manifest ex	cept as noted	in Item 1	9.		
MA TT						







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

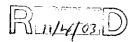
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9704853 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157913001

CWM Unit #: 1\*0 Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES V DISTRICT MANAGER Certificate # 256292 10/30/03



DEPARTMENT OF ENVIRONMENTAL CONSERVATION "DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

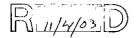
(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# P.O. Box 12820, Albany, New York 12212

WASTE MANIFEST	1. Generator's 料分取収収			st Doc. No.	2. Page	mionnai	tion withit quired b	in heavy bol y Federal La	ld line aw.
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4. Generator's Telephone Number (315 )13						nerator's ID			
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7. Transporter 2 (Company Name)	(, '(	F//1/1918 8. US EPA ID I	21/12/41/	121 <u>42</u>		nsporter's Telepho	<u>-</u>	380 B.	18122
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CWN CHEMICAL SERVICES,	L.L.0.				G. Sta	te Facility ID			
1550 BALMER RD. MODEL CITY NY 14107		M <sub>I</sub> Y <sub>I</sub> D <sub>I</sub> Q <sub>I</sub> s	م در فر فر و	6 7 9		illty Telephone( 716—754~	823	) i	
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INFOTERC 8	579133	1200	)535-5	053	611	1 Contra	, <b>*</b>		Ì
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20. Facility Owner or Operator: Certification of receipt	of hazardous mate	erials covered by	this manifest exc	ept as noted	in Item 1	9			
Printed/ typed Name		Signature			130111 1			lo. Day	s Voor
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INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9704862 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157913301 CWM Unit #: 1\*0

Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256295 10/30/03

Vieles III drugg

For questions please call our Customer Service Dept. at (800) 843-3604

[Ju/4/03]

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

**UNIFORM HAZARDOUS** 

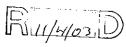
DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

**HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212



(Hazardous Waste Manifest 5/00)

	UNIFORM HAZARDOUS  WASTE MANIFEST  1. Generator  N 17 10 10 10	's US EPA No. Manifes 	st Doc. No.	2. Pa	- miorina		in heavy bold line by Federal Law.
	3. Generator's Name and Mailing Address INLAND FISHER GUIDE GM I GENERAL MOTORS DR SYRACUSE NY 13206-0486			Ā.	NYB97	048	371
	4. Generator's Telephone Number (315) 432-5314				ienerator's ID SAME		
	Transporter_1 (Company Name)	6. US EPA ID Number				n <i>A1</i> )	15799:NY
	Bultalo Fuel Corp.	NYR000045	17,2,4	D. T			80086728002
	7. Transporter 2 (Company Name)	8. US EPA ID Number			tate Tra⊓sporter's I	D	
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	CVM CHEMICAL SERVICES, L.L.C.	10. 03 ErA ID Number		G. S	tate Facility ID		
	1550 BALMER RD. MODEL CITY NY 14107	   a	6.7.9	H. F	acility Telephone (		) 1
	11. US DOT Description (Including Proper Shipping Name, Hazard C	· · · · · · · · · · · · · · · · ·	12. Conf	ainers	13. Total	14. Unit	
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	J. Additional Descriptions for Materials listed Above CP2002-PCB SQLL,		-	K. Han	dling Codes for Wa	stes List	ted Above
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	b.  15. Special Handling Instructions and Additional Information a. PCB Out of Service Date: // CHEMTREC Emergency Response Num	nber (800)424-93	NW 00	69 1 Ca	ntract	ERG	<b>*</b> 171
	b.  15. Special Handling Instructions and Additional Information a. PCB Out of Service Date: // CHEMTREC Emergency Response Num INFOTRAC 81579094  16. GENERATOR'S CERTIFICATION: Liberary declare that the	nber (800)424.93 (800)535-30	00 WM 253	6 / CA	ontract M Contrac	ERG *	
	b.  15. Special Handling Instructions and Additional Information a. PCB Out of Service Date:  CHEMTREC Emergency Response Num  TNFCTRAC SISTING  16. GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labeled, and are in all respects in prope and state laws and regulations.	(800) 535 - 50 contents of this consignment are fully are condition for transport by highway according to the condition of transport by highway according to the condition of transport by highway according to the condition of transport by highway according to the condition of transport by highway according to the condition of transport by highway according to the condition of th	OO WM	I Co	Ontract  M Con Yrac  cribed above by pronternational and nat	ERG * oper ship ional gov	ping name and are ernment regulations
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INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9704871 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

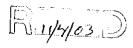
Profile Number: CP2002 CWM Tracking ID: 8157909401

CWM Unit #: 1\*0 Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256258

10/30/03



Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

DIVISION OF SOLID & HAZARDOUS MATERIALS

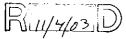
# **HAZARDOUS WASTE MANIFEST**

P.O. Box 12820, Albany, New York 12212



(Hazardous Waste Manifest 5/00)

	WASTE MANIFEST BET IN ICE	<u> かええらり性</u> はし <i>())</i>	ist Doc. No.	2. Page	1 monta	tion within heavy bold line equired by Federal Law.
	3. Generators Name and Mailing Address 181,AND FISHER LULDE (評		<del>-1:-1:1</del> -1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	A.	IVDOZ	04000
	1 GENERAL MOTORS OR   STRACUSE   NY 13206-0466				erator's ID	04889
	4. Generator's Telephone Number (315 ) 432 5314				AME	
	Transporter 1 (Company Name)	6. US EPA ID Number				DAD15829-NY
	7. Transporter 2 (Company Name)	<u> MYRDQQQQ</u>	1724	D. Trans	sporter's Teleph	one (800)(0778002
	Than a portor E (company (tame)	8. US EPA ID Number			Transporter's I	
	Designated Facility Name and Site Address	10. US EPA ID Number	<del></del>		sporter's Teleph Facility ID	one ( )
	CWM CHEMICAL SERVICES, L.L.C.			G. Olak	s racilly ID	
	1550 BALMER ND. MODEL CITY NY 14107	<b>44 37 Form 10 75 10 10</b>		H. Facil	ity Telephone (	
		NY 00 49 836	12. Cont		16 754	
	11. US DOT Description (Including Proper Shipping Name, Hazar	d Class and ID Number)	Number		13. Total Quantity	14. Unit
	a. RQ, POLYCHLORINATED BIPHEN SOLID MIXTURE, 9, UN2315, 111	IYLS,		1,750	E 57	Wt/Vol I. Waste No. EPA
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	J. Additional Descriptions for Materials listed Above				<u> </u>	
	CP2002-PCB SOLL			K. Handlin	g Codes for Wa	stes Listed Above
	a.   •   C.		<u>•</u>	a.		C
i						
	15. Special Handling Instructions and Additional Information		<u>•                                      </u>	b.		d.
	a. FCB Out of Service Date:	10/28/03	SRA	648	428	16
	CHEMTREC Emergency Response No	amber (800)424-93	00 WH	Con	tract	ERG#171
	16. GENERATOR'S CERTIFICATION: I hereby declare that I classified, packed, marked and labeled, and are in all respects in pro	(800) 535-5	053	GM	Contra	.*
	classified, packed, marked and labeled, and are in all respects in pro and state laws and regulations.	the contents of this consignment are full per condition for transport by highway acc	y and accura cording to app	tely describ licable inter	ed above by pro	oper shipping name and are
	If I am large quantity generator I certify that I have a program in all	and the made of the control of the c				
	practicable and that I have selected the practicable method of treatmend the environment; OR if I am a smaller generator, I have made a g to me and that I can afford.	ent, storage, or disposal currently available cood faith effort to minimize my waste gene	e to me which eration and se	minimizes lect the bes	the present and t t waste manager	uture threat to human health
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5	18. Transporter 2 Acknowledgement of Receipt of Materials	- francisco la C	ddady,			1/10/2/8/0/3
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4	19. Discrepancy Indication Space					
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ć	20. Facility Owner or Operator: Certification of receipt of hazardous Printed/Typed Name		ept as noted	in Item 19		
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INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9704889 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157909601

CWM Unit #: 1\*0 Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256259 10/30/03

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For questions please call our Customer Service Dept. at (800) 843-3604

RujujuzD

DEPARTMENT, OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

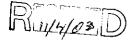
P.O. Box 12820, Albany, New York 12212



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(Hazardous Waste Manifest 5/00)

	WASTE MANIFEST		est Doc. No. $I_1/ {\stackrel{>}{_{\scriptstyle \perp}}}{0}$	2. Page 1 o	l illioima	ition withi equired b	in heavy bold line by Federal Law.	
	Generator's Name and Mailing Address     INLAND FISHER GUIDE CM     GENERAL MOTORS DR     SACRES NO TORS DR	•	**		YB97	048	398	
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	Transporter 1, (Company Name)	6. US EPA ID Number		·		DAC	25464-NY	$_{r}$
	Buttale Fuel Corp.	$W_1$ Y, $\mathcal{L}_1\mathcal{O}_1O$	5,7,24		orter's Teleph		300 67 1800	
	7. Transporter 2 (Company Name)	8. US EPA ID Number			ransporter's I	<u>`</u>	<del></del>	┨
	Designated Facility Name and Site Address			F. Transp	orter's Teleph	one (	)	
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	11. US DOT Description (Including Proper Shipping Name, Hazard Cl	ass and ID Number)	Number	- 1	Quantity	Wt/Vol	I. Waste No.	
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ı	CF2002 PCB SOIL	,		K. Handling	Codes for Wa	astes List	ted Above	-
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	a. PCB Out of Service Date: /L	128/03	SR#	6984	128-1	7	na meneral espe	
	CHEMTREC Emergency Response Num	ber (800)424-93 (800)535-5	00 un 033	i Cont	ract	ERG	<b>*</b> 171	
	<ol> <li>GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labeled, and are in all respects in proper and state laws and regulations.</li> </ol>	condition for transport by highway ac	ocording to app	olicable intern	ational and nat	tional gove	ernment regulations	1
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	18. Transporter 2 Acknowledgement of Receipt of Materials		9,50	\$4 1 g 4				-
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	19. Discrepancy Indication Space Actual Red 3/988/						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1
2	20. Facility Owner or Operator: Certification of receipt of hazardous mat	erials covered by this manifest ex	cept as noted	in Item 19.		·		1
	Printed/Typed Name EILEON CARTON	Signature)	Car	rec		)	No. Dayn Year	







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

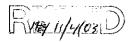
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9704898 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157911201

CWM Unit #: 1\*0 Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256275 10/30/03



# In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

NYB9704907

Please type or print. Do not staple.

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

### **HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212

(Hazardous Waste Manifest 5/00)

	UNIFORM HAZARDOUS 1. Generator's	US EPA No. Manife	est Doc. No.	2. Pa	ge 1 of Informs		azardous Waste Manifest 5/00)
	WASTE MANIFEST 機宜更可以	16 18 19 19 14 14 10 0 /			11110111110	ition with equired l	nin heavy bold line by Federal Law.
	3. Generator's Name and Mailing Address INLAND FIGHER GRIDE GM I CENERAL MOTORS DR SYRACUSE NY 13206-0486		\$ 134v \$	A.	NYB97		
	4. Generator's Telephone Number (315) 1432-5314				enerator's ID		
	Transporter 1 (Company Name)	6. US EPA ID Number	· .		State Transporter's I	n /i	777033
	7. Transporter 2 (Company Name)	N. Y. RY 10100145 8. US EPÄ ID Number	1724	D. 1	ransporter's Teleph	one (	113852 p. 1 5006728ec
	7. Iransporter 2 (Company Name)	8. US EPÄ ID Number	12,15 16	E. 8	State Transporter's I	D ,	500 / C / C / 2500
	Designated Facility Name and Site Address	10. US EPA ID Number	111		ransporter's Teleph	one (	)
	CWM CHEMICAL SERVICES, L.L.C.	10. 03 EFA ID Number		G. S	State Facility ID		·
	1550 BALMER RD.			<u></u>	acility Telephone (		<u> </u>
	MODEL CITY NY 14107	N170049836	<u>[6   7  </u> 9		716 754		í
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	PHERIPPE Emperation Committee	1.610	BR#	QZ	0760-	J.B.	and a substantial section
	CHEMTREC Emergency Response Num  INFOTRAC 1.R6:171	ber (800)424-93	OO WM	f Co	ntrect	ERG	
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	and state laws and regulations.	-p t wy mgmmay acc	soraning to app	nicable i	inemational and hati	onai gove	ernment regulations
	If I am large quantity generator, I certify that I have a program in place practicable and that I have selected the practicable method of treatment, and the environment; OR if I am a smaller generator, I have made a good	to reduce the volume and toxicity of storage, or disposal currently available	waste genera	ited to the	ne degree I have de	ermined	to be economically
	to me and that I can afford.	faith effort to minimize my waste gene	eration and se	lect the	best waste manager	nent met	hod that is available
	Printed/Typed Name	Signature	1 2 /			N	Mo. Day Year
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-	18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	- John College					TALKIQIO 4
	Finite Typed Name	Signature		-		N	lo. Day Year
†	19. Discrepancy Indication Space	<u> </u>			·		<del></del>
	actual Red 3110	20					
1		<u> </u>					
Γ	20. Facility Owner or Operator: Contification of account of						
	20. Facility Owner or Operator: Certification of receipt of hazardous mater Printed/Typed Name	erials covered by this manifest exc	ept as noted	in Item	19.		o Day Year







INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9704907 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

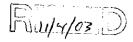
Profile Number: CP2002 CWM Tracking ID: 8157910501

CWM Unit #: 1\*0 Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES UDISTRICT MANAGER Certificate # 256268 10/30/03

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DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

P.O. Box 12820, Albany, New York 12212



Please type or print. Do not staple. LINIFORM HAZARDOUS

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

(Hazardous Waste Manifest 5/00)

	WASTE MANIFEST N P P P	12   12   13   19   15   14   10   <b>/2</b>   <b>/</b>	st Doc. No.	2. Page 1	IIIOIIII	ation within lequired by F	heavy bold line Federal Law.
	3. Generator's Name and Mailing Address INLAND FISHER GUIDE GR I GENERAL NOTORS DR SYRACUSE NY 13206-0486			a. N	YB97	0491	L6
	4. Generator's Telephone Number (315 #32-5314			B. Gener SA			
	Transporter 1 (Company Name)	6. US EPA ID Number				ID X 1377.	3964-DA
	U.S. Bulk Transport, Inc.	PAD 987347	15/15				8 16518182
	7. Transporter 2 (Company Name)	8. US EPA ID Number			Transporter's		
	Designated Facility Name and Site Address	10. US EPA ID Number	<del></del>		orter's Teleph	one (	)
	CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD.			G. State			
		N,Y,D,O,4,9,8,3,6		71	Telephone (	823 t	
	11. US DOT Description (Including Proper Shipping Name, Hazard Cl	ass and ID Number)	12. Conta Number		13. Total	14. Unit	
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	J. Additional Descriptions for Materials listed Above		<del>-   -   -  </del>	K. Handling	Codes for Wa	istes Listed	Above
	a. CF2002-FCB SOIL		<u>,                                    </u>	a.	1.	c.	
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	CHEMTREC Emergency Response Number 1985	1800) 535,50	36.3	12 133	C 4	ERG#1	
	<ol> <li>GENERATOR'S CERTIFICATION: I hereby declare that the c classified, packed, marked and labeled, and are in all respects in proper of and state laws and regulations.</li> </ol>						name and are nent regulations
	If I am large quantity generator, I certify that I have a program in place to practicable and that I have selected the practicable method of treatment, and the environment; OR if I am a smaller generator, I have made a good to me and that I can afford.	to reduce the volume and toxicity of	waste genera	ted to the de	gree I have de	termined to I	oe economical(v
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2	18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	To				<u></u>	
		Signature				Mo.	Day Year
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Š	20. Facility Owner or Operator: Certification of receipt of hazardous mater	erials covered by this manifest exce	ept as noted	in Item 19.			
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INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9704916 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157912801

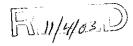
CWM Unit #: 1\*0 Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES ()
DISTRICT MANAGER
Certificate # 256290

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10/30/03



DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**



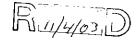
(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212

	WASTE MANIFEST	に Generators Nロロロロ	US EPA NO.   <u>                                    </u>	ı	t Doc. No. 1/1/21/3	2. Page 1 o	1111011116	ation withi	n heavy bold y Federal La	d line aw.
	3. Generator's Name and Mailing Address INLAMD FISHER CUIDE UN I GENERAL MOTORS DR SYNACUSE MY LAZOG OUR	 F.:			1.32-12		YB97	049	125	
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	5. Transporter 1 (Company Name)		6. US EPA ID Nu	mber				D & 100	2 2 6 4 6	
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	CMM CHEMICAL SERVICES, 1550 BALMER RD.	A. A. C. S. C.			i	H. Facility	Telephone (		)	
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1	I N to 1 TW H		16.01	72 × 10	a per tras	~		-		ł
	<ol> <li>GENERATOR'S CERTIFICATION: I hereby classified, packed, marked and labeled, and are in all and state laws and regulations.</li> </ol>			by inglittay acco	ording to app	ely described licable interna	above by pro tional and nati	per shipp ional gove	rnment regula	ations
	If I am large quantity generator. I certify that I have a practicable and that I have selected the practicable me and the environment; OR if I am a smaller generator, I	program in place	to reduce the volume storage, or disposal or	and toxicity of w	aste genera to me which	ted to the deg	ree I have de	termined t	to be economat to human h	nically nealth
1	and the environment; OR if I am a smaller generator, I to me and that I can afford.  Printed/Typed Name			my waste gener	ation and se	ect the best w	aste managei	nent meth	od that is ava	ilable
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	20. Facility Owner or Operator: Certification of receipt of	of hazardous mate	erials covered by this	manifest exce	pt as noted	in Item 19.	<del></del>			
	Printed/Typed Name		Signature			· .		M	o. Day	Year.,
L	THORNE FECK		$1 - III_{ij}$ .	1,11 6	1101	7		/	$\triangle 29$	03







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9704925 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

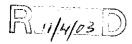
Profile Number: CP2002 CWM Tracking ID: 8157913101 CWM Unit #: 1\*0

Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 256293
10/30/03

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DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

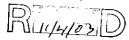
(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# P.O. Box 12820, Albany, New York 12212

	UNIFORM HAZARDOUS 1. Generator's	US EPA No. Manifes	st Doc. No.	2. Pa	ige 1 of Informa		in bosses Fall (		
	WASTE MANIFEST  3. Generator's Name and Mailing Address	2 2 3 9 4 4 10 O1	124		- I IIIOIIII	equired b	in heavy bold line by Federal Law.		
	TOUR STAND FISHER CUIDE CM  1 GENERAL MOTORS DR  SYNACUSE NY 13206-0486			A.	NYB97	049	934		
	4. Generator's Telephone Number (315) 1132-5314				SAME				
	5. Transporter 1 (Company Name)	6. US EPA ID Number				D AC	23361-NY		
	1 Energian de Tank Transport  7. Transporter 2 (Company Name)	NYD097644	1801	D. Transporter's Telephone (7/6) 3/3/10/3  E. State Transporter's ID  F. Transporter's Telephone ( )  G. State Facility ID					
	7. Tansporter 2 (company Name)	8. US EPA ID Number							
	Designated Facility Name and Site Address	10. US EPA ID Number	<del>                                     </del>						
	CWM CHEMICAL SERVICES, L.L.U.		G. State Facility ID						
	1550 BALMER RD. MODEL CITY NY 14107	м, у, р, о, и, э, в, в, о, в, 7, 9			H. Facility Telephone ( ) 716 754 - 8231				
	11. US DOT Description (Including Proper Shipping Name, Hazard Cl	ass and ID Number)	12. Cont		13. Total	14. Unit			
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	J. Additional Descriptions for Materials listed Above		<u> </u>	К. Нап	dling Codes for Wa	stes List	ed Above		
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	CHEMTREC Emergency Response Number 1 NFSTRAC 8519151	- (RW)533-50	993 ·	,	MI Cont	ERU)			
	classified, packed, marked and labeled, and are in all respects in proper and state laws and regulations.	contents of this consignment are fully condition for transport by highway acc	and accurated and accurated accurate and accurate and accurate accurate and accurate	itely des plicable i	scribed above by pro international and nat	per ship ional gove	ernment regulations		
	If I am large quantity generator. I certify that I have a program in place of practicable and that I have selected the practicable method of treatment, and the environment; OR if I am a smaller generator, I have made a good to me and that I can afford.	to reduce the volume and toxicity of v storage, or disposal currently available faith effort to minimize my waste gene	vaste genera to me which ration and s	ated to t h minimi elect the	he degree I have de zes the present and best waste manager	termined future thre ment met	to be economically eat to human health hod that is avaitable		
	Printed Typed Name Edua BRahn for James F How the H	Signature Conduin By	Elin	/			10. Day Year		
:	17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature		· .					
	Printed/Typed Name	Gigirature	A Same	,		<b>N</b>	O. Day Year		
	18. Transporter 2 Acknowledgement of Receipt of Materials	A Commonweal of the					1 1 1 1 7		
	Printed/Typed Name	Signature				N	lo. Day Year		
+	19. Discrepancy Indication Space		<del></del>				<u> </u>		
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ŀ	20. Facility Owner or Operator: Certification of receipt of hazardous mate	Signature	pt as noted	in Item	1 19.				







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/29/03 as described on Hazardous Waste Manifest number NYB9704934 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

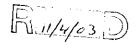
Profile Number: CP2002 CWM Tracking ID: 8157915101

CWM Unit #: 1\*0 Disposal Date: 10/29/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256310 10/30/03

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In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

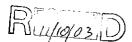
**DIVISION OF SOLID & HAZARDOUS MATERIALS** 

Please type or print. Do not staple.

HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

t)	Will
(Hazardous Waste Manifest	5/00)

	UNIFORM HAZARDOUS 1. Generator's WASTE MANIFEST	US EPA No. [조]조]조[왕]왕[왕]		st Doc. No.		-   1111011118	tion with	in heavy bold line by Federal Law.		
	3. Generator's Name and Mailing Address 1 NI ARD FEBRER GREET GP 1 CENERAL MOTORS DR	1 - 100 14 1 1 1 1 1 1	- [ wa [ ]	1_1 600 F.J	A.	NYB97				
	SYRACUSE BY 13206 - 0406 4. Generator's Telephone Number (315) 432-5314					ienerator's ID				
	Transporter 1 (Company Name)	6. US EPA ID Number		<del></del>		SAME.	D 84	25.361-NY		
	Tongreande Tank Transport	N.Y.D.0971	644	1801	D. T	ransporter's Teleph		716)473770;		
	7. Transporter 2 (Company Name)	8. UŠ EPA ID Number			<u> </u>	tate Transporter's II	D			
	Designated Facility Name and Site Address     10. US EPA ID Number				ransporter's Telepho tate Facility ID	one (	)			
	CMM CHEMICAL SERVICES, C.L.C. 1550 BAUMER RD.	ı			<u> </u>					
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	11. US DOT Description (Including Proper Shipping Name, Hazard Cl	lass and ID Number)		12. Cont Number		13. Total  Quantity	14. Unit Wt/Vol			
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	J. Additional Descriptions for Materials listed Above		<del></del> -	<u>                                     </u>	K. Han	dling Codes for Wa	stes Lis	ted Above		
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ļ	b. d.  15. Special Handling Instructions and Additional Information			<u>•                                      </u>	b.		d.			
1	a. PCB Out of Service Date: //	0/30/03	i	58#	(1	99062	= 1	Freedom Valents		
	CHEMTREC Emergency Response Num	ber (800)42	4-93	00 NM	l C	ontract	FRG	#171		
ŀ	16. GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labeled, and are in all respects in proper.	contents of this considerme	-4 5.41.					ning name and ero		
	and state laws and regulations.	condition for transport by ta	griway acc	ording to ap	olicable	international and nati	ional gov	ernment regulations		
	If I am large quantity generator. I certify that I have a program in place practicable and that I have selected the practicable method of treatment, and the environment; OR if I am a smaller generator, I have made a good to me and that I can afford.	to reduce the volume and t storage, or disposal current faith effort to minimize my	loxicity of t ly available vaste dens	waste genera e to me which eration and s	ated to the minimal of the state of the stat	he degrae I have de zes the present and t	termined future thr	to be economically eat to human health		
ŀ	to me and that I can afford. Printed/Typed Name	Signature /				Dest waste manager		· · · · · · · · · · · · · · · · · · ·		
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;	Transporter 1 Acknowledgement of Receipt of Materials     Printed/Typed Name	Signature		الربر ٠٠٠						
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	19. Discrepancy Indication Space	*** ***		·			<u> </u>	<del></del>		
	actual Kled, 210	W2K								
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  Printed/Typed Name  Signature							do D-11			
1	Michelle Helde		1	Her	e jest		/	Mo. Day Year		





### CWM CHEMICAL SERVICES, LLC

1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 11/05/03 as described on Hazardous Waste Manifest number NYB9704943 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157939001

CWM Unit #: 1\*0 Disposal Date: 11/05/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256644

when Ill young

11/06/03

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

P.O. Box 12820, Albany, New York 12212

	UNIFORM HAZARDOUS 1. Genera	tor's US EPA No. Manife	st Doc. No.	2 Pa	ige 1 of	*	zardous Waste		
	WASTE MANIFEST SANS AND A	10 0 4 4 6 6 8 8 9			iniorma	ation with	in heavy bo y Federal I	old line Law	
	3. Generator's Name and Mailing Address INLAND FISHER (ATDE CP)	Α.							
	T GENERAL NOTORS DE SYRACUSE NY 13206-0486			NYB97	04952				
	4. Generator's Telephone Number (315 #32-5314			SAME					
	Transporter 1 (Company Name)	6. US EPA ID Number			State Transporter's	ID 29	388	7-NY	
i	Paye E.T.C.	N. Y. P. 9.8.6.9.69	2.47		ransporter's Teleph				
	7. Transporter 2 (Company Name)	8. US EPA ID Number	, , , , , , , , , , , , , , , , , , ,	_	State Transporter's				
	Designated Facility Name and Site Address	10. US EPA ID Number	<u> </u>	F. 1	ransporter's Teleph	ione (	)		
	CUM CHEMICAL SERVICES, L.L.C.		G. 5	State Facility ID					
	1550 BALMER RD.		H. Facility Telephone (						
	MODEL CITY NY 14107	N,Y,D,O,4,9,0,3,6	679	716 754-0231					
	11. US DOT Description (Including Proper Shipping Name, Hazar		12. Cont	ainers	13. Total	14. Unit			
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ŀ	16 GENERATOR'S CERTIFICATION	<u>(800) 535 - Sc</u>	<u> 253                                    </u>	611	1 Centres	· <b>/</b> *			
	<ol> <li>GENERATOR'S CERTIFICATION: I hereby declare that t classified, packed, marked and labeled, and are in all respects in pro and state laws and regulations.</li> </ol>	the contents of this consignment are fully oper condition for transport by highway acc	and accura ording to app	tely des licable i	cribed above by pro	per shipp	ing name a	and are	
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	practicable and that I have selected the practicable method of treatm and the environment; OR if I am a smaller generator, I have made a g to me and that I can afford.	ent, storage, or disposal currently available	to me which	minimiz	zes the present and f	uture thre	at to humar	mically health	
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ŀ	18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Cignotus							
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f	20. Facility Owner or Operator: Certification of receipt of hazardous Printed/Typed Name	materials covered by this manifest exce Signature	pt as noted	in Item	19.				
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In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYB9704952 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

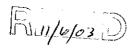
Profile Number: CP2002 CWM Tracking ID: 8157929501 CWM Unit #: 1\*0

Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256517

11/03/03



### NYB9704961 Please type or print. Do not staple.

**UNIFORM HAZARDOUS** 

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

P.O. Box 12820, Albany, New York 12212

Manifest Doc. No. 2. Page 1 of

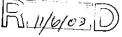
1. Generator's US EPA No.



(Hazardous Waste Manifest 5/00)

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Information within heavy bold line WASTE MANIFEST is not required by Federal Law. 3. Generator's Name and Mailing Address
LNLAND FISHER CULLE NYB9704961 GENERAL MOTORS DR SYRACUSE NY 13206-0486 B. Generator's ID 4. Generator's Telephone Number (プロン) リングーンストル SAM Transporter 1 (Company Name) 6. US EPA ID Number C. State Transporter's ID // D age E. T. C. めといわらいんりんりょうかん D. Transporter's Telephone (200)2332124 7. Transporter 2 (Company Name) E. State Transporter's ID F. Transporter's Telephone 9. Designated Facility Name and Site Address 10. US EPA ID Number G. State Facility ID CAM CHEMICAL SERVICES, E.E.C. 1550 BALMER RD. H. Facility Telephone ( MODEL CITY NY 14107 8, 5, 5, 5, 6, 8, 9, 0, 0, 4, M 716 754-8231 12. Containers 13. Total 14. Unit 11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) Number | Type Wt/Vol Quantity I. Waste No. RQ. POLYCHLORINATED BIPHENYLS, EST. SOLID MIXTURE, 9, UN2315, 111 STATE EPA STATE **EPA** STATE d. EPA STATE Additional Descriptions for Materials listed Above K. Handling Codes for Wastes Listed Above CP2002-PCB SULL 15. Special Handling Instructions and Additional Information a. PCB Out of Service Date: CHEMTREC Emergency Response Number (800)424-9300 WMI Company 16. 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 and state laws and regulations If I am large quantity generator. I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a smaller generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Day Year Educin B. Kahn for James F. Hertnett 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Day Year Nance 10C <u> 3191</u>915 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Day Year 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Signature







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYB9704961 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157927901 CWM Unit #: 1\*0

Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES ()
DISTRICT MANAGER
Certificate # 256503
11/03/03

For questions please call our Customer Service Dept. at (800) 843-3604

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DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & FAZARDOUS MATERIALS

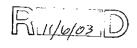
# **HAZARDOUS WASTE MANIFEST**

(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

# P.O. Box 12820, Albany, New York 12212

UNIFORM HAZARDOUS  1. Generator WASTE MANIFEST	s US EPA No. Manifes	I Doc. No.		- IIIIOIIIIA	tion within	n heavy bold line		
3. Generator's Name and Mailing Address	Λ							
1 GENERAL MOTORS DR		NYB9704979  B. Generator's ID						
4. Generator's Telephone Number (315) 132 5314	SAME							
5. Transporter 1 (Company Name) Buffalo Fuel Corp.	6. US EPA ID Number	7 7/1				88764-NY		
7. Transporter 2 (Company Name)	W <sub>1</sub> Y <sub>1</sub> R <sub>1</sub> O <sub>1</sub> O <sub>1</sub> O <sub>1</sub> O <sub>1</sub> 4 <sub>1</sub> 5 8. US EPA ID Number			ansporter's Telephetate Transporter's 1	<u>_</u>	(OV)677800Z		
Designated Facility Name and Site Address	10. US EPA ID Number	<u>L.i.</u>		ansporter's Teleph		)		
CVM CHEMICAL SERVICES, L.L.C.	G. S	tate Facility ID						
1559 BALMER RD.				H. Facility Telephone ( )				
MODEL CITY NY 14107	71.6 754-6231 ainers 13. Total 14. Unit							
11. US DOT Description (Including Proper Shipping Name, Hazard (	Class and ID Number)	Number		Quantity	WVVol	l. Waste No.		
a. RQ, POLYCHLORINATED BEPHENY SOLID MIXTURE, 9, UN2315, 111	LS.			EST.		EPA		
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b.						EPA		
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С.				<del></del>		EPA		
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d.				<del></del>		EPA		
						STATE		
J. Additional Descriptions for Materials listed Above		<u> </u>	K. Han	dling Codes for Wa	stes Liste	ed Above		
a. CP2002-PCB SOIL		<u> </u>	a. c.					
b. d. 15. Special Handling Instructions and Additional Information	10/20/20		b.	$\frac{\Box}{\Box}$	d.			
	, , , , , , , , , , , , , , , , , , ,	11000 000000	******** ** ***	9062		er a program de servações		
CHEMTREC Emergency Response Num  INFOTRAC 81579280	mber (800)424-93 (800)535-5	00 WM 2002	E Cc	ntract	ERGA	1171		
16. GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labeled, and are in all respects in proper	contents of this complement are full				per shipp	ning name and are		
If I am large quantity generator. I certify that I have a program in plac practicable and that I have selected the practicable method of treatmen and the environment; OR if I am a smaller generator, I have made a goo	e to reduce the volume and toxicity of	waste genera	ted to the	ne degree I have de	termined	to be economically		
Printed/Typed Name  Eclevin B. Kanha Let Januar & F. Martine to	Signature			<u>.</u>	M	lo. Day Year		
17. Transporter 1 Acknowledgement of Receipt of Materials		1	2°			12 02 Cr mg		
Printed typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials	Signature	alla	anner. Leitheref	Tela	M	o. Day Year		
Printed/Typed Name	Signature	·			М	lo. Day Year		
19. Discrepancy Indication Space				<del></del>				
act Re 27692K								
20. Facility Owner or Operator: Certification of receipt of hazardous m			in Item	19.				
Michelle Fleck	Signature	1 , 1 .	/		M /	o. Day Year		







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYB9704979 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157928001

CWM Unit #: 1\*0 Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 256504
11/03/03

For questions please call our Customer Service Dept. at (800) 843-3604

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DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

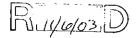
(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

in case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212

	UNIFORM HAZARDOUS 1. Generator's WASTE MANIFEST 制度地位	US EPA No. [조 [조 [3 ] 9 ] 현 [작 ] 인		t Doc. No.	2. Pa	r   iniorma	tion within heavy bold linequired by Federal Law.	
	S. Generators name and Mailing Address INLAND FISHER GUIDE GR I GENERAL MUTURS DR SYRACUSE NY 13206-04405	-			A.	NYB97	04988	
	4. Generator's Telephone Number ( 3 1 3 ) 1 3 2 3 3 1 4  5. Transporter 1 (Company Name)	6. US EPA ID Number			1	SAME. tate Transporter's II	PAC25378-N	
	7. Transporter 2 (Company Name)	N. Y.D. 0.Y. 7.16 8. US EPA ID Number	<u> 1414</u>	1 <u>8101/</u>	one (716)87397 D			
	9. Designated Facility Name and Site Address 니까 이번에 ICAL BERVIUES, L.HU.	10. US EPA ID Number	<u> </u>	<u>                                     </u>		ansporter's Telepho late Facility ID	one ( )	
		8 <sub> </sub> e <sub> </sub> µ <sub> </sub> o <sub> </sub> q <sub> </sub> Y <sub> </sub> M	3 6			acility Telephone( 716—754—	8531	
	11. US DOT Description (Including Proper Shipping Name, Hazard Cla	· · · · · · · · · · · · · · · · · · ·		12. Cont		13. Total Quantity	14. Unit Wt/Vol I. Waste No	<u>).</u>
	RO, POLYCHLORINATED BIPHENYL SOLID MIXTURE, 9, UN2315, 111	a Bry		a (a) di	o X	EST. 210101010		
АТОЯ	b.				<u> </u>	<u> </u>	EPA	
GENERATOR	C.						EPA STATE	
	d. ·				ļ. ļ.		EPA	
	J. Additional Descriptions for Materials listed Above	<del></del>	,	4	K. Han	l l l l	STATE	
	a. CP200Z-PC8 SOTL				a.	1.	c.	]
	b.             d.  15. Special Handling Instructions and Additional Information				b.		d.	
1	a. PCB Out of Service Date: $\angle Q$	130/03				19062		
_	CHERTREC Emergency Response Number 1NFOTRAC  16. GENERATOR'S CERTIFICATION: I hereby declare that the collassified, packed, marked and labeled, and are in all respects in proper.							)
	classified, packed, marked and labeled, and are in all respects in proper of and state laws and regulations.  If I am large quantity generator. I certify that I have a program in place to practicable and that I have selected the practicable method of treatment, and the environment; OR if I am a smaller generator, I have made a good to me and that I can afford.	o reduce the volume and to	xicity of v	vaste gener	ated to ti	nternational and national nati	onal government regulation	ns (
	Printed/Typed Name  Edwin B. Kahn for lances f. Harthe! 1  17. Transporter 1 Acknowledgement of Receipt of Materials	Signature Colivin		Rehi	₩.		<del></del>	ear
TRANSPORTER	Printed/Typed Name  STEPHAN  18. Transporter 2 Acknowledgement of Receipt of Materials	Signature	1	l ag		James	Mo. Day Ye $1/10/210/0$	ear
TRA	Printed/Typed Name	Signature		·			Mo. Day Ye	ear
ŽĮ,	19. Discrepancy Indication Space  Oct Rus 23270 K	:					<del></del>	
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous mate		fest exce	pt as noted	in Item	19.		
	Michelle Fleck	Signature McLLLL	F(	ul			Mo. Day	ear <sub>5</sub>







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

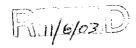
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYB9704988 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157928501

CWM Unit #: 1\*0 Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER
Certificate # 256509
11/03/03



## NYB9704997

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

## **HAZARDOUS WASTE MANIFEST**

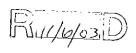


Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212

	UNIFORM HAZARDOUS 1. Generator's US EPA No. MASTE MANIFEST 2. Generator's US EPA NO. MASTE MANIFEST 2. Generator's US EPA NO. MASTE MANIFEST 2. Generator's US EPA NO. MASTE MANIFEST 2. Generator's US EPA NO. MASTE MANIFEST 2. Generator's US EPA NO. MASTE MANIFEST 2. Generator's US EPA NO. MASTE MANIFEST 2. Generator's US EPA NO. MASTE MANIFEST 2. Generator's US EPA NO. MASTE MANIFEST 2. Generator's US EPA NO. MASTE MANIFEST 2. Generator's US EPA NO. MASTE MANIFEST 2. Generator's US EPA NO. MASTE MASTE MANIFEST 2. Generator's US EPA NO. MASTE MANIFEST 2. Generator's US EPA NO. MASTE MANIFEST 2. Generator's US EPA NO. MASTE MASTE MANIFEST 2. Generator's US EPA NO. MASTE MANIFEST 2. Generator's US EPA NO. MASTE MASTE MANIFEST 2. Generator's US EPA NO. MASTE		st Doc. No.		•   Informa	tion with	in heavy bold line by Federal Law,
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	1 GENERAL MOTORS DR SYRACUSE NY 13206-0466 4. Generator's Telephone Number (315 )(32-5314				enerator's ID		
	5. Transporter 1 (Company Name) 6. US EPA		6413	C. S			SDBT-NY
	7. Transporter 2 (Company Name)  8. US EPA	18/44/64 ID Number	777		ransporter's Teleph tate Transporter's II		800233776
	Designated Facility Name and Site Address     10. US EPA	ID Number	F. Ti	)			
	CWM CHEMICAL SERVICES, L.L.C. 1550 BALMER RD.			Н. Е	acility Telephone (		)
	MODEL CITY NY 19107 NY DO	6 7 9 12. Conta	iners	71.6 754 ~	823 14. Unit		
	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Nu	ımber)	Number	Туре	Quantity	Wt/Vol	l i
	RQ, POLYCHLORINATED BIPHENYLS, SOLID MIXTURE, 9, VN2315, 111		!		EST.		
	b		) () <sub>[</sub>	<u>) jr</u>	2,60,00	K.	STATE BOO7 EPA
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İ	J. Additional Descriptions for Materials listed Above			<u>  </u> K. Han	dling Codes for Wa	stes List	
	CF2002-FCB SOIL.	<u></u>	•	a.	l.	С.	
	b.   d.			h			
	15. Special Handling Instructions and Additional Information a. PCB Out of Service Date: 10/30/0	3 ;	iste#	09	9062 -	6	
	CHENTREC Emergency Response Number (8)	00)424-936	06 <b>um</b> i	Ge	ntract	ERG	#171
ŀ	<ol> <li>GENERATOR'S CERTIFICATION: I hereby declare that the contents of this classified, packed, marked and labeled, and are in all respects in proper condition for tra</li> </ol>						ping name and are
	and state laws and regulations.  If I am large quantity generator. I certify that I have a program in place to reduce the verticable and that I have selected the practicable method of treatment, storage, or dispand the environment; OR if I am a smaller generator, I have made a good faith effort to me and that I can afford.	volume and toxicity of	waste genera	ted to t	he degree I have de	termined	to be economically
	Printed/Typed Name Edwin B. Rahn for James F. How the 14 Signature	Edwind	Rob	in			Mo. Day Year
•	17. Transporter 1 Acknowledgement of Receipt of Materials 7/667  Printed Typed Name Signature Signature	0.1	$O_{Z}$	7	73 ·		Mo. Day Year
	18. Transporter 2 Acknowledgement of Receipt of Materials	1 3 min	SCH	1.69.	<u>Ke</u>	1	103003
	Printed/Typed Name Signature						Mo. Day Year
1	19. Discrepancy Indication Space	·	<del></del>			!	<del></del>
	20 Facility Owner or Operator: Cartification of receipt of						
:	20. Facility Owner or Operator: Certification of receipt of hazardous materials covered  Printed/Typed Name  Signature	. ,			19.		Mo. Day Year
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INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYB9704997 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

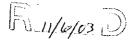
Profile Number: CP2002 CWM Tracking ID: 8157929601 CWM Unit #: 1\*0

Disposal Date: 10/31/03

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RICHARD STURGES ( DISTRICT MANAGER Certificate # 256518

11/03/03



## NYB9705006

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS SIMIE OF MEM TORK

## **HAZARDOUS WASTE MANIFEST**

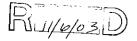
(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# P.O. Box 12820, Albany, New York 12212

UNIFORM HAZARDOUS  WASTE MANIFEST  The color of the color		t Doc. No.	2. Pa			in heavy bold line
3. Generator's Name and Mailing Address	10 output et al al al	1/1/21/	A.	- · · · · · · · · · · · · · · · · · · ·	<u> </u>	y Federal Law.
I DEAMD FISHER COLLE GM I GENERAL MOTORS DR SYNACUSE NY 13206-0486			B 6	NYB97	050	006
4. Generator's Telephone Number (315) 432-5314			ľ	SAME		
5. Transporter 1 (Company Name)	6. US EPA ID Number		C. S	State Transporter's I	D //	25362-NY
7. Transporter 2 (Company Name)	W1 Y1 D1 O1 91 71 10 141 4 8. US EPA ID Number	1 <u>8101 (</u>		ransporter's Teleph State Transporter's I		7/6)87377/3
Désignated Facility Name and Site Address				ransporter's Teleph		)
CWM CHEMICAL SERVICES, L.L.C.	10. US EPA ID Number		G. S	tate Facility ID		
1550 BALMER RD.	Н. F	acility Telephone(		)		
11. US DOT Description (Including Proper Shipping Name, Hazard Cl	M   Y   D   U   U   9   8   3   6   8   8   8   8   8   8   8   8   8	12. Cont	ainers	13. Total	14. Unit	
a. ko selven orinated steakny	14	Number	Type	Quantity	Wt/Vol	I. Waste No. EPA
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		1	ı			STATE
J. Additional Descriptions for Materials listed Above UP 2002 - (208 - SOF)			K. Han	dling Codes for Wa	stes List	ed Above
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15 Special Handling Instructions and Additional Information	1/2-1	1	b.		d.	
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CHEMTREE Emergency Response Num  INFOTRAC  8579365	ber (000)4/4-93 74-00)627-73	()()   WM 17 2 2	I Ŭ ∠	mtract -	ERG:	#171
<ol> <li>GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labeled, and are in all respects in proper and state laws and regulations.</li> </ol>	contonto of this consistent and the					ping name and are ernment regulations
If I am large quantity generator. I certify that I have a program in place practicable and that I have selected the practicable method of treatment, and the environment; OR if I am a smaller generator, I have made a good to me and that I can afford.	to reduce the volume and toxicity of v storage, or disposal currently available faith effort to minimize my waste gene	vaste genera to me which ration and sa	ated to to minimi elect the	he degree I have de zes the present and t best waste manager	termined uture thre	to be economically eat to human health hod that is available
Printed/Typed Name	Signature	- A - A				no. Day Year
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Printed/Typed Name  DOCC VACANT	Signature /	of our	ww		N d	lo. Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials	- Automating	MIN	14	<u> </u>		10501013
Printed/Typed Name	Signature		-	<u></u>	N	1o. Day Year
19. Discrepancy Indication Space	0.17			·		<del>                                      </del>
au Ru 2249	8K					
20. Facility Owner or Operator: Certification of receipt of hazardous mat				1 19.		
Printed/Typed Name	Signature 1	All			N	p (Deg/ Get)







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYB9705006 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157925501

CWM Unit #: 1\*0 Disposal Date: 10/31/03

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RICHARD STURGES
DISTRICT MANAGER
Certificate # 256480
11/03/03



# NYH1352016 Please type or print. Do not staple. UNIFORM HAZ WASTE MAN

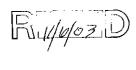
In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

## DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

#### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

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$\overline{}$	MANIFORM MATERIAL CONTRACTOR	<del></del>	ozo, Albany, New				٠,۶	(Haz	ardous Waste Ma	nifest 5/00)		
	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's	US EPA No. 	1.	t Doc. No. <u>  1   3   2</u>				n heavy bok y Federal La			
	INLAND FISHER GUIDE ON I OFNERAL BOTORS OR					Α.	NYH13	520	16			
	SYRACUSE WY 13206 C41 4. Generator's Telephone Number (315 73						ienerator's ID ふかれ					
	5. Transporter 1 (Company Name)		6. US EPA ID Number		3	C. S	C. State Transporter's ID AC 45444 NY					
	7. Transporter 2 (Company Name)		MI YIR IO IO OV 8. US EPA ID Number	<u> 16/15/</u>	1/1/14	D. T E. S	D. Transporter's Telephone (Frank) (Frank)  E. State Transporter's ID					
	Designated Facility Name and Site Address		10. US EPA ID Number	Ц_	<u> </u>	F. Transporter's Telephone ( ) G. State Facility ID						
	CWM CUEMICAL SERVICES, TEDO BALMER RD.	ļ										
	MODEL CITY NY 14167		u p p p p p	<b>3</b> 6 1	şγş	H. F	acility Telephone( 7まひょわり	0231	)			
	11. US DOT Description (Including Proper Shippin	g Name, Hazard Ck	ass and ID Number)	-11	12. Con Number		13. Total Quantity	14. Unit Wt/Vol	1 14/0 - 1-			
	a. RG. POLYCHLORINATED BIPHENVLS, SOLID MIXTURE.9.UNZ.115.113					1,980	EST.	170701	I. Waste EPA	NO.		
	b.	7413,345		(	· (i) I	1	2181000	K	STATE 3007			
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GENERATOR	C.					<u> </u>	<u></u>		STATE			
ij.	<del>.</del>								EPA			
ł	d.	<del></del>				<u> </u>			STATE			
									STATE			
ı	J. Additional Descriptions for Materials listed Above								L.			
	aCP2002 - PCB 5011	;   C.				K. Han	dling Codes for Wa	istes List I c.	ed Above	$\neg 1$		
	N.				<u> </u>	ļ			<u></u>			
- 1	b. 15. Special Handling Instructions and Additional Info	d.				b.		d.				
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	<ol> <li>GENERATOR'S ČERTIFICATION: I here classified, packed, marked and labeled, and are in a and state laws and regulations.</li> </ol>	an respects in proper	contents of this consignment condition for transport by hig	it are fully hway acc	and accur ording to ap	ately des plicable	scribed above by pri international and nat	oper ship ional gove	ernment regu	ations		
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TRA	Printed/Typed Name	· · · · · · · · · · · · · · · · · · ·	Signature					N	lo. Day	Year		
	19. Discrepancy Indication Space		.1	<del></del>	<del></del>	· · · · ·	la.			<del></del>		
FACILITY	Actual - 29547 K			<b></b>	··				⇒;			
FAC	20. Facility Owner or Operator: Certification of receiperinte@/Typed Name	ot of hazardous mat	erials covered by this mar	nifest exce	ept as note	d in Iter	n 19.					
	Richard LA BEND		Signature //	A!				1/	Mo. Day	Year		



COPY 5-GENERATOR - MAILED BY TSD FACILITY





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

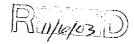
#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352016 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157927301 CWM Unit #: 1\*0 Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES V DISTRICT MANAGER Certificate # 256497 11/03/03



DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# HAZARDÔUS WASTE MANIFEST

(Hazardous Waste Manifest 5/00)

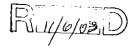
Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212

Wit.

	UNIFORM HAZARDOUS 1. Generator WASTE MANIFEST	1	est Doc. No.	2. Pa	- į illivillia	ation within heavy bold line equired by Federal Law.				
	3. Generator's Name and Mailing Address  INLAME FISHER GUILDE LIM	<u> </u>	11.12.2	A.						
	I GENERAL HOTORS OR SYRACUSE NY 19206 DAKE			В G	A. NYH1352025  B. Generator's ID					
	Generator's Telephone Number (			SAME						
	Buttak fuel Corp.	6. US EPA ID Number	1. 7. A.U	C. State Transporter's ID AD 15832 MV						
	7. Transporter 2 (Company Name)	8. US EPA ID Number	<u> </u>	D. Transporter's Telephone (X(X)X/77800 2)  E. State Transporter's ID						
	Designated Facility Name and Site Address	111	F. Transporter's Telephone ( ) G. State Facility ID							
	CWM CHENICAL SERVICES, L.L.C. 1550 HALMER RD.	<u> </u>								
	MODEL CITY NY 14107	****	种子单		acility Telephone( 716-754-					
	11. US DOT Description (Including Proper Shipping Name, Hazard C	Class and ID Number)	12. Cont	-	13. Total	14. Unit				
	a. RQ, POLYCHLORINATED BIPHENYS SOLID MIXTURE, 9, UN2315.111	1.8 ,	Number	туре	Quantity EST.	Wt/Vol I. Waste No. EPA				
	SOLID MIXTURE, 9, UN2315. III		0 0 4 1	3	28000	STATE 1007				
_	b.			<u> </u>	( ) ( ) ( ) ( ) ( ) ( )	EPA				
GENERATOR			1,,			STATE				
GENE	с.		<del>  </del>		<del></del>	EPA				
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	1 Additional Description 6 AA 4 1 1 A 4 4 4 4 4 4 4 4 4 4 4 4 4 4				allia a Cardan C MI	<del></del>				
	J. Additional Descriptions for Materials listed Above			K. Han	dling Codes for wa	astes Listed Above				
	CF2002 PCB SULL a		<u> </u>	K. Han	dling Codes for Wa	c.				
	CF2002 PCB SOIL		•	a,	dling Codes for Wa					
	b d.	0/30/03	• I	a. b.		c				
	b.  15. Special Handling Instructions and Additional Information  16. FIGURE CONTRACTOR COLORS  16. FIGURE CONTRACTOR CON	been 7800 victor in i	575 - E1867	a. b.	99062	d				
317	b.  15. Special Handling Instructions and Additional Information  16. ITEM Option Corvine Date:  TWO TEMPERATOR'S CERTIFICATION: Liberary declare that the	ber (800)424-916 1 (800) 525-3	oc umi 5053	a. b.	99062 urvact	c				
, , , , , , , , , , , , , , , , , , ,	b.  15. Special Handling Instructions and Additional Information  16. First Control Convince Code:  16. GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labeled, and are in all respects in prope and state laws and regulations.	bor (BOO) 404 9 19 800 525 0  contents of this consignment are full or condition for transport by highway according to the condition for transport by highway according to the condition for transport by highway according to the condition for transport by highway according to the condition for transport by highway according to the condition for transport by highway according to the condition of the condition for transport by highway according to the condition for transport by highway according to the condition of the condition o	OCS ly and accura cording to app	a. b.	99062  Contract.  Contract  coribed above by proportional and national	d.  d.  t. K(   F ) / 1  poper shipping name and are are already and a regulations.				
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INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

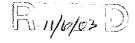
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352025 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157928701

CWM Unit #: 1\*0 Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256510 11/03/03



DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

## **HAZARDOUS WASTE MANIFEST**

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

TRANSPORTER

ase type or print. Do not staple.	P.O. Box 12820, A	الا Albany, New Yor	k 12212			(Hazardous	Waste Manifest 5/00)
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA	No. Man	nifest Doc. No.	2. Page	IIIIOIIIIa	tion within hea	avy bold line
3. Generator's Name and Mailing Address LMI AND FISHER GUIDE GM L CLMPRAL MOTOR'S DR SYRACUSE MY 15206 046	\$.C.		1		VYH13	5203	4
4. Generator's Telephone Number ( 3 4 5 7 3).	2 - 1 - 3   11			. \ (.a. ∂	APH:		
5. Transporter 1 (Company Name)		S EPA ID Number		C. Sta	te Transporter's I	DA13310	Db-NY
7. Transporter 2 (Company Name)	// // 8. US	KIOOOVI S EPA ID Number	<u>\$171214</u>	D. Tran	nsporter's Teleph te Transporter's I	one ( <u>\$70</u>	16778132
Designated Facility Name and Site Address	10 11	S EPA ID Number			nsporter's Teleph	one (	)
		3 EPA ID Number		G. Sta	te Facility ID		
CWM CHEMICAL SERVICES, 1550 BALMER RD. MODEL CITY NY 14107		PORPED	6679		ility Telephone (		·
			12. Cont		13. Total	14. Unit	<u> </u>
11. US DOT Description (Including Proper Shipping	) Name, Hazard Class and	ID Number)	Number	Туре	Quantity		. Waste No.
a. RQ. POLYCHLORINATED	BIPHENYLS.				est.	EPA	
RO, POLYCHLORINATED SOLID MIXTURE, 9, UNS:	#15,TTF '		ek (þ. j. í	1 1	218101010	STA K 300	
b.					1. V. 1. V.	EPA	¥.
						STA	ΝΈ
c.						EPA	4
				ļ , l	1 1 1 1	STA	VTE .
d.					<del>· /  .  </del>	EP/	4
						STA	(TE
J. Additional Descriptions for Materials listed Above				IZ Hamali	ing Order to 114		
a P2002 POB SULL				N. Hariuli	ing Codes for Wa	isies Listed A	Dove [
d.	1 C.		<u> </u>	a.		C.	
			•				<u></u> 1
b. 15. Special Handling Instructions and Additional Info	d.		.• 1	b.		d.	
r. PCB Ont of Service De		0/03	SRA(	699	062-1	1.0	4. 44
HENTREC Emergency Reside				E Con	tract	ERG#17	l e
16. GENERATOR'S CERTIFICATION: I here classified, packed, marked and labeled, and are in a and state laws and reculations.	by declare that the contents	of this sandanas	fully and accura	ately descr	ibed above by preenational and nat	oper shipping ional government	name and are
If I am large quantity generator. I certify that I have practicable and that I have selected the practicable r and the environment; OR if I am a smaller generator.	a program in place to reduce	e the volume and toxicity	of waste gener	ated to the	degree I have de	termined to be	economically
to me and that I can afford.  Printed/Typed Name	Signa				manage		
Fluis B. Ocha Laston	. E // .t. 14	_Column 1	100			Mo.	Day Year
17. Transporter 1 Acknowledgement of Receipt of M.	<i>≥ /*                                   </i>	LEAN UNI	TROAM	<del>-</del>		<u> </u>	131010131
Printed/Typed Name	Signa	ature	7			Mo.	Day Year
Joe Meyers		De Mey	24. A. M.			1/ 1/4	130 OS
18. Transporter 2 Acknowledgement of Receipt of M.							the state of the s
Printed/Typed Name	Signa	dure				Mo.	Day Year
19. Discrepancy Indication Space			<del>" ,,</del> -		<del></del>		
Act Rec 280	KOTK						
20. Facility Owner or Operator: Certification of receip							
Polints of Proceed Alls	t of hazardous materials or	vered by this manifest	except as note	d in Item 1	19.		
Printed/Typed Name MICHELE Fleck	t of hazardous materials of Signa		except as note	d in Item 1	19.	Mo.	Day Year







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352034 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

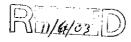
Profile Number: CP2002 CWM Tracking ID: 8157926501

CWM Unit #: 1\*0 Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 256490
11/03/03

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DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

## **HAZARDOUS WASTE MANIFEST**

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

3. Generator's Name and Mailing Address	formation within heavy bold line not required by Federal Law.				
3. Generator's Name and Mailing Address  INLAND FISHER GUIDE GM  I GENERAL MOTORS DR  SYRACOSE NY 13206-0466  B. Generator's ID					
5. Transporter 1 (Company Name)  6. US EPA ID Number  C. State Transporter 5 To Transporter 2 (Company Name)  8. US EPA ID Number  E. State Transporter's To Tr					
9. Designated Facility Name and Site Address  10. US EPA ID Number  G. State Facility ID  CWM CHEMICAL SERVICES, L.L.C.					
MODEL CITY NY 14107   NY DOPPRIA 6 79 716 75	H. Facility Telephone ( )  7 1 ← 7 5 4 + 3 7 5 4  iners   13. Total   14. Unit				
Number Type Quantity					
BQ. POLYCHLORINATED BIPHENYLS. SOLID MIXTURE, 9, UNZ.15, 111  b. eq. (4.4.7.28,0.0	C <sub>I</sub> O K STATE (S)O 7				
	STATE				
C	STATE				
d.	EPA STATE				
J. Additional Descriptions for Materials listed Above  CP2002-PCH S011.  a. C. a.	for Wastes Listed Above				
b. d. b.					
15. Special Handling Instructions and Additional Information  5. PCB Out of Service Date: 10/30/03 SR# 649063  CHEMTREC Emergency Response Number (800)424-9300 WMI Contract	The special control of the control o				
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international an and state laws and requisitions.					
If I am large quantity generator. I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the preser and the environment; OR if I am a smaller generator, I have made a good faith effort to minimize my waste generation and select the best waste me and that I can afford.	nave determined to be economically				
Printed/Typed Name  Edwin B. Kahn for James F. Hartne 17  17. Transporter 1 Acknowledgement of Receipt of Materials	Mo. Day Year レクジのロン				
Printed/Typed Name  Signature  Signature	Mo. Day Year				
18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature	Mo. Day Year				
19. Discrepancy Indication Space  Oct Rec 20129 K					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  Printed/Typed Name  Signature  M.C. L.J. F.J. C.J. L.J. L.J. F.J. L.J. L.J. L.J. L.J. L	Mo. Day Year				





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352043 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157926901

CWM Unit #: 1\*0 Disposal Date: 10/31/03

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RICHARD STURGES ()
DISTRICT MANAGER
Certificate # 256493
11/03/03

For questions please call our Customer Service Dept. at (800) 843-3604

Pulle/03 D

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

## HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212



(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

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	<ol> <li>GENERATOR'S CERTIFICATION: Thereby declare that the cr classified, packed, marked and labeled, and are in all respects in proper c and state laws and regulations.</li> </ol>	ontents of this consignment are fully condition for transport by highway acco	and accura ording to app	lely desc licable in	ribed above by pro- ternational and nati	per ship	ping name and are			
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COPY 5-GENERATOR - MAILED BY TSD FACILITY





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352052 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157925701

CWM Unit #: 1\*0 Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256482 11/03/03

For questions please call our Customer Service Dept. at (800) 843-3604

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OIVIE OF MEN TOUK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

## **HAZARDOUS WASTE MANIFEST**

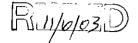
(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

## P.O. Box 12820, Albany, New York 12212

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t. FCB unit of Service Date:	10/30/03	58#	699	062-	13		
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INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352061 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157927801

CWM Unit #: 1\*0 Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGESV DISTRICT MANAGER Certificate # 256502 11/03/03

For questions please call our Customer Service Dept. at (800) 843-3604

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DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID'& HAZARDOUS MATERIALS

## **HAZARDOUS WASTE MANIFEST**

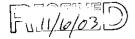
Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212

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(Hazardous Waste Manifes	t 5/00	)

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's	S US EPA No. 		t Doc. No.	2. Page	morna		nin heavy bold line by Federal Law.			
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ł	9. Designated Facility Name and Site Address	<del></del>	10. US EPA ID Numb	er	<u> </u>	F. Transporter's Telephone ( ) G. State Facility ID						
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INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

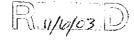
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352079 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157927501

CWM Unit #: 1\*0 Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 256499
11/03/03



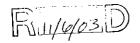
DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

## HAZARDOUS WASTE MANIFEST



In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

ease type or print. Do not staple.	P.O. Box 1282	20, Albany, New	York 1	2212				(Haz	ardous Waste Manifest 5	5/00)
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b.  15. Special Handling Instructions and Additional Info  1. PCB Out of Service Da	ormation	30/03	S	ka	b.	906.	2-15	d		_
16. GENERATOR'S CERTIFICATION: I here classified, packed, marked and labeled, and are in a and state laws and regulations.  If I am large quantity generator. I certify that I have practicable and that I have selected the practicable and the environment; OR if I am a smaller generator to me and that I can afford.	TWFOTRAC 9(59) 93 (800) 535-5053 (9) Contract FRORT)  16. 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 and state laws and regulations.  If I am large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a smaller generator, I have made a good faith effort to minimize my waste generation and select the best waste meaning method by the reliable.									
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INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352088 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157929301

CWM Unit #: 1\*0 Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256516 11/03/03

For questions please call our Customer Service Dept. at (800) 843-3604

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## DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

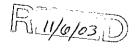
## HAZARDOUS WASTE MANIFEST

Please type or print. Do not staple.

P.O. Box 12820, Albany, New York 12212

<b>S</b> CWAS
(Hazardous Waste Manifest 5/00)

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	3. Generator's Name and Mailing Address INLAND FISHER GUIDE GR I GENERAL MOTORS OR SYRACUSE NY 13206 0486		<i></i>		A.	NYH Senerator's		520	197	
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	15. Special Handling Instructions and Additional Information	1221.2	<u>_</u>		/ /	1:6:	<u></u>	<u> </u>	<u></u>	
	). PCB Out of Service Date: 10	/30/03	\$	R#	07	906	1-1	6		ļ
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.	HENTREC Emergency Resopped Number 1 NEOTRAC 85198	(800) 535	.56	333	01	4 Car	diar	*	-	
	<ol> <li>GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labeled, and are in all respects in proper and state laws and regulations.</li> </ol>	aantanta at this seems.						-	oing name ar	nd are
	<b>9</b>									
	If I am large quantity generator. I certify that I have a program in place practicable and that I have selected the practicable method of treatment, and the environment; OR if I am a smaller generator. I have made a good	storage, or disposal currently	available	aste gener to me whic	ated to ti h minimi:	he degree l zes the pres	l have det sent and f	termined luture thre	to be econon at to human l	nically health
	to me and that I can afford.	naith effort to minimize my wa:	ste gene	ration and s	elect the	best waste	manager	ment met/	nod that is ava	ailable
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7	19. Discrepancy Indication Space	·								
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FACILITY	20 Facility Owner or Opposite Particular		<del></del> .		<u> </u>					
Ź	20. Facility Owner or Operator: Certification of receipt of hazardous mat Printed/Typed Name	erials covered by this manife Signature	est exce	pt as note	d in Item	19.				
	Michelle Fleck	Signature	it	-1	1 ,			M	o. Day	Year,



in case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

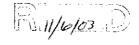
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352097 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157928101 CWM Unit #: 1\*0

Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256505 11/03/03



DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

#### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

(Hazardous Wasle Manifest 5/00)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA No.	Manifest Doc. No.	2. Page 1 of		n within heavy bold line lired by Federal Law,
3. Generator's Name and Mailing Address INLAND FISHER GUIDE GM 1 GENERAL MOTORS OR	3. 4. 4' I; I) 12 3'	<u> </u>	A. NY	H135	2106
SYRACUSE NY 13206-048	(6,		B. Generato	or's ID	
Generator's Telephone Number (3.15 4) 3.     Transporter 1 (Company Name)	6. US EPA ID Number		SAME		A Language Was
Page E.T.C.	11 Y D 9 8 69	164447	C. State Tra	nsporter's ID	2445B7-NY • (800)2332126
7. Transporter 2 (Company Name)	8. US EPA ID Number	W- 17 17 18		nsporter's ID	6 100018781818
				ter's Telephon	e ( )
Designated Facility Name and Site Address	10. US EPA ID Number	r	G. State Fa	cility ID	
CWM CHEMICAL SERVICES, 1550 BALMER KO. MODEL CITY NY 14107	L.E.C. Nybousa	36633	H. Facility T	elephone (	)
11. US DOT Description (Including Proper Shippin	a Nama Hayard Class and ID Number	12. Cont			4. Unit
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L Additional Description					
J. Additional Descriptions for Materials listed Above CP2002-PCB SOLL.	e -		K. Handling C		es Listed Above
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15. Special Handling Instructions and Additional Info a. PCB Out of Service Bu		SRV	6990	62-1	7
CHEMTREC Emergency Response SS	2056 Number (800)424	-9300 <b>W</b> M1	Contr	act E	RG#171
16 GENERATOR'S CERTIFICATION: Lhere	by declare that the contents of this consignment	nt are fully and seems			
and state laws and regulations.	an inspect containor for transport by the	griway according to ap	piicabie internati	onal and hation	at government regulations
If I am large quantity generator. I certify that I have practicable and that I have selected the practicable and the environment; OR if I am a smaller generator to me and that I can afford.					
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Printed/Typed Name	Signature	10			Mo. Day Year
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COPY 5-GENERATOR - MAILED BY TSD FACILITY





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352106 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157927401

CWM Unit #: 1\*0 Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 256498
11/03/03

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For questions please call our Customer Service Dept. at (800) 843-3604

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DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID'& HAZARDOUS MATERIALS

## **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212

(Ha	zardous Waste Manifest 5/00)

UNIFORM HAZARDOUS WASTE MANIFEST		st Doc. No.	2. Pa		tion with	in heavy bold line
Generator's Name and Mailing Address	WEDDOLFBOOK ON	1/14/2				by Federal Law.
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4. Generator's Telephone Number ( )	190 12. 544			; /} [4] -		
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7. "Iransporter 2 (Company Name)	8. US EPA ID Number		E. S	tate Transporter's I	D C	6778002
Designated Facility Name and Site Address	10. US EPA ID Number			ransporter's Teleph	one (	)
CWM CHERICAL SERVICES,			G.S	tate Facility ID		
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MODEL CITY MY 14107	<u> </u>	10 1/ 1/		716/754		'
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classified, packed, marked and labeled, and are is and state laws and regulations.	reby declare that the contents of this consignment are full n all respects in proper condition for transport by highway ac	ly and accura cording to app	lely des licable i	cribed above by pronternational and nat	oper ship	ping name and are ernment regulations
If I am large quantity generator I certify that I be	No a program in place to reduce the					
and the environment; OR if I am a smaller generat	the a program in prace to reduce the volume and toxicity of e method of treatment, storage, or disposal currently available or, I have made a good faith effort to minimize my waste gen	le to me which eration and se	minimi:	zes the present and	future thr	eat to human health
to me and that I can afford.  Printed/Typed Name	Signature					· — — — —
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Printed/Typed Name	pipt of hazardous materials covered by this manifest exc	ept as noted	in Item	19.		
Michella Flock	Signature	d	,		ŀ	Mo. Day Year
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INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352115 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157928301

CWM Unit #: 1\*0 Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES/ DISTRICT MANAGER Certificate # 256507 11/03/03



## DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

## **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212 (Hazardous Waste Manifest 5/00)

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	4. Generator's Telephone Number (3) 5 3 3 5 5 3	$(A_{i})$		1	HE COLOR ID				
	Transporter 1 (Company Name)	6. US EPA ID Number		C. Stat	e Transporter's I	DAD15617	-NV		
	7. Transporter 2 (Company Name)		<u>145721</u>	D. Tran	sporter's Teleph	ione 1800 67,			
	1. Indioportor 2 (Company Name)				e Transporter's I				
Ì	9. Designated Facility Name and Site Address	10. US EPA ID Number	<del></del>		sporter's Teleph e Facility ID	none ( )			
	OWN CHEMICAL SERVICES, L.L.	£.		G. Glac	o raomy ib				
	1550 PALMER RD.				ity Telephone (				
	MODEL CITY NY 14107	<u> </u>	1 4 6 7 7	ontainers	16 754 ·				
	11. US DOT Description (Including Proper Shipping Name, I	Hazard Class and ID Number)		er <sub>I</sub> Type	13. Total Quantity	14. Uniti Wt/Vol I Was	1. No.		
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	15. Special Handling Instructions and Additional Information  1. ECS Date of Service Ontes:	10/30/03	Skot	699	062-	19			
ļ	MPMTREC Umerummy Response					FRG#171			
	16. GENERATOR'S CERTIFICATION: I hereby declare classified, packed, marked and labeled, and are in all respect	167 (800) 535	5.5053	GM	Contro	act			
	classified, packed, marked and labeled, and are in all respects and state laws and regulations.	s in proper condition for transport by hig	hway according to	urately descri applicable inte	oed above by pr rnational and nat	oper shipping name tional government reg	and are ulations		
	If I am large quantity generator. I certify that I have a program practicable and that I have selected the practicable method of and the environment: OB if I am a smaller generator. I have more	m in place to reduce the volume and to	oxicity of waste gen	erated to the	degree I have de	etermined to be econ	omically		
	and the environment; OR if I am a smaller generator, I have ma to me and that I can afford.	ade a good faith effort to minimize my w	aste generation and	select the be	ine present and st waste manage	nuture threat to huma ment method that is a	n health ıvailable		
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£	17. Transporter 1 Acknowledgement of Receipt of Materials  Brinted/Typed Name	Signature				<del></del>			
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FACILITY	20. Facility Owner or Operator: Certification of receipt of haza	rdoue materials covered &	ileat ar						
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COPY 5-GENERATOR - MAILED BY TSD FACILITY





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352124 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157926701 CWM Unit #: 1\*0

Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256492 11/03/03



## DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

## **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# P.O. Box 12820, Albany, New York 12212

	T T T T T T T T T T T T T T T T T T T	F.O. BOX 12820, Albany, New York	12212			(Hazardous Waste Manifest 5/00)
	UNIFORM HAZARDOUS WASTE MANIFEST		st Doc. No.	2. Page 1 o	IIIIOIIIIatio	n within heavy bold line
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	STRACTUSE NY 13206 046 4. Generator's Telephone Number (315 %).			B. Genera ∂∧M		
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	7. Transporter 2 (Company Name)	WIYID GIS 1619 1619	942	D. Transpo	orter's Telephon	AC 15:48 - NY (500)2332126
		2. So Li A lo Nulliber		E. State II	ansporter's ID orter's Telephon	
	Designated Facility Name and Site Address	10. US EPA ID Number	<del></del>	G. State Fa		<u> </u>
	CWM CHEMICAL SERVICES, 1550 BALMER RD.	f.t.C.		LL Caribba	T-11	
	MODEL CITY NY 14107	ихронрарь	679		Telephone( 5 754-8)	
	11. US DOT Description (Including Proper Shipping	Name, Hazard Class and ID Number)	12. Conta			4. Unit
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	J. Additional Descriptions for Materials listed Above a CP 2007 - PCM - SCP).			K. Handling C		es Listed Above
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Ì	15. Special Handling Instructions and Additional Infor	mation		b		d
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1	HEMTREC Emergency Ruspo	nse Number (800)424-930	o umi	Contr	act B	RG#171
Ì	16. GENERATOR'S CERTIFICATION: I hereb	y declare that the contents of this consignment are fully respects in proper condition for transport by highway are				er shipping name and are
	and state laws and regulations.	account of the state of the sta	ording to app	ilicable internat	tional and nation	al government regulations
	practicable and that I have selected the practicable me and the environment; OR if I am a smaller generator,	a program in place to reduce the volume and toxicity of verthod of treatment, storage, or disposal currently available thave made a good faith effort to minimize my waste gene	waste general to me which tration and se	ted to the deg minimizes the	ree I have detern present and futu	mined to be economically ure threat to human health
1	to me and that I can afford.  Printed/Typed Name	Signature		nect the best w	asie manageme	
4	Edwin B Rahn for James F	Great Hy Colonial	Rela	.21 .e		Mo. Day Year
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	20. Facility Owner or Operator: Certification of receipt		ept as noted	in Item 19.		
	Carlot LA GEND	Signature	1			Mo. Day Year
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COPY 5-GENERATOR - MAILED BY TSD FACILITY





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352133 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157927701

CWM Unit #: 1\*0 Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 256501
11/03/03



DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

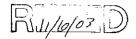
Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

#### **HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212

<b>S</b> Captur
(Hazardous Waste Manifest 5/00)

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's 上省 第 年 紀	DS EPA NO.		est Doc. No.	2. Page 1 c	1111011110		in heavy bold line ly Federal Law,
	3. Generator's Name and Mailing Address INLAND FISHER GUIDE GM I GENERAL MOTORS DR		4	, , , , , , , , , , , , , , , , , , ,			/H13	521	.42
	SYRACUSE NY 13206-048 4. Generator's Telephone Number (315-432	() ~*533.0				B. Genera			
	Transporter 1 (Company Name)	2 C 2 C 3	6. US EPA ID I	Number		SAM		<u> </u>	27/2/18 10/
			NYD98		947		orter's Teleph		27945-NY (00)2332Rb
Ì	Page E. T. C.  7. Transporter 2 (Company Name)		8. US EPA ID I	Number	1/ 1/ /_		ransporter's I		NO BORKE
	_	ěž		1 1 1 1		<del></del>	orter's Teleph		<del></del>
	Designated Facility Name and Site Address	- Mi	10. US EPA ID		<del></del>	G. State F			
	CVM CHEMICAL SERVICES, 1550 BALMER RD. MODEL CITY NY 14107	b.L.G.		** **			Telephone (		)
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	11. US DOT Description (Including Proper Shipping	Name, Hazard C	lass and ID Numb	er)	12. Cont	· i	13. Total	14. Unit	i
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ł	J. Additional Descriptions for Materials listed Above					K. Handling	Codes for Wa	astes List	ted Above
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1									<u>.                                    </u>
	b. 1 • 1	ı d.					1 1	۱,	
Ì	15. Special Handling Instructions and Additional Infor	mation	12.1.2	·	•	(		<u> </u>	
	i. PCB Out of Service Da	te: <u>/</u> ⊈	/30/03		SRA	6990	166-6	21	
1	HEMTREC Emergency <sub>*</sub> Rospo <u>エルドのプズ</u> ብと	ese Numi	ber (800 <i>(200</i> )	1424-93 <u>535-5</u>	00 WHI 건축공	Conti	ract Vinte	eros	1171
	<ol> <li>GENERATOR'S CERTIFICATION: I hereby classified, packed, marked and labeled, and are in all and state laws and regulations.</li> </ol>	y declare that the I respects in prope	contents of this co.	ncianment are fo	the and access	a delice of a secultural			pping name and are ernment regulations
	If I am large quantity generator. I certify that I have practicable and that I have selected the practicable in and the environment; OR if I am a smaller generator, to me and that I can afford.								
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$\dashv$	19. Discrepancy Indication Space	17/1							
<u></u>	Actual - 29257 1	7							
FACILITY	20. Facility Owner or Operator: Certification of receip	of hazardous ma	terials covered by	this manifest ex	cept as note	d in Item 19.			
-	Printed/Typed Name		Signature		-			Ī	Mo. Day Year,







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

## CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352142 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

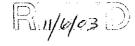
Profile Number: CP2002 CWM Tracking ID: 8157929001 CWM Unit #: 1\*0

Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256513

11/03/03



DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

## **HAZARDOUS WASTE MANIFEST**

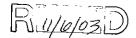
(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212

	UNIFORM HAZARDOUS WASTE MANIFEST  1. Generator's	US EPA No. M		Doc. No.		ge 1 of Informa	ation with	nin heavy bold line by Federal Law.
	3. Generators Name and Mailing Address INLAND FISHER GUIDE CM 1. GENERAL MOTORS OR		<b>*</b>		A.	NYH13	521	L5 <b>1</b>
	SYRACUSE NY 13206-0446 4. Generator's Telephone Number (315, §32-5314 5. Transporter 1 (Company Name)					enerator's ID → A [1] [		_
	12 // - ~ //	6. US EPA ID Number  N V   V   V   V   V   V   V   V   V   V	<u>Z</u> 151	2k²14	D. T	tate Transporter's ransporter's Teleph tate Transporter's	one (	24689-NY 80016778142
	9. Designated Facility Name and Site Address  CMM CMEMICAL SERVICES, (1919).	10. US EPA ID Number		111		ransporter's Teleph tate Facility ID	ione (	)
	1550 DALMER RD.	4444444	<u> </u>	<u> </u>		acility Telephone (		)
	11. US DOT Description (Including Proper Shipping Name, Hazard Cla	ass and ID Number)		12. Cor Number		13. Total Quantity	14. Unit Wt/Vol	! i
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GENERATOR	G.		_					STATE EPA
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	J. Additional Descriptions for Materials listed Above aCP2002 - PCB SON.		i		K. Han	dling Codes for Wa	astes List	ted Above
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i [		/30/03						
	HEMTREC Emergency Response Number 1 AFC 1811 282  16. GENERATOR'S CERTIFICATION: I hereby declare that the classified, packed, marked and labeled, and are in all respects in proper of the control of th	- (SOC) 535-3	50,	53	612	Contrac	<u> </u>	
	and state laws and regulations.  If I am large quantity generator, I certify that I have a program in place to practicable and that I have selected the practicable method of treatment.	o reduce the volume and toxic	ity of w	aste gene	rated to t	nternational and hat he degree I have de	ionai gov etermined	ernment regulations to be economically
	and the environment; OR if I am a smaller generator, I have made a good to me and that I can afford.  Printed/Typed Name	Signature	e gene	ration and	select the	best waste manage	ment met	thod that is available
1	17. Transporter 1 Acknowledgement of Receipt of Materials	Courn.	<u> </u>	They	<u>t.</u>	<del></del>	Ļ/	103003
TRANSPORTER	Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials	Signature	<del>2</del>	44	(J)		N 1 /	Mo. Day Year
TRA	Printed/Typed Name	Signature				<u> </u>		Mo. Day Year
	19. Discrepancy Indication Space							<del></del>
FACILITY	20. Facility Owner or Operator: Certification of receipt of hazardous mate	erials covered by this manifes	st exce	pt as note	ed in Iten	1 19.		
	Printed/Typed Name	Signature M	10	F.	 1	/	N	10. Day Year







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

## CERTIFICATE OF DISPOSAL

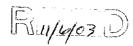
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352151 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157928201 CWM Unit #: 1\*0

Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGESV DISTRICT MANAGER Certificate # 256506 11/03/03



Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

## **HAZARDOUS WASTE MANIFEST**

P.O. Box 12820, Albany, New York 12212



	WASTE MANIFEST	i. Generators (			Doc. No.	2. Page	I IIIOIIII		n heavy bold line y Federal Law.
	N. Generator's Name and Mailing Address N. AND FISHER GUITINE GN					Α.	NYH13	521	.69
	GENERAL MOTORS DE TYPACUSE NY 13700-040	€ <sub>2</sub>					nerator's ID		
4	、Generator's Telephone Number (いつ りかん	15314					AMU		
5	Transporter 1 (Company Name)		6. US EPA ID Number	182	~1 7//				31307 NY
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	WM CHEMICAL SURVICES.	L. F. C.							
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			· · · · · · · · · · · · · · · · · · ·	4 4 7	12. Conta		13. Total	14. Unit	
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l a	1.	c.				а.		C.	
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	5. Special Handling Instructions and Additional Infor	d. mation	, ,			b.	.6: 00	d.	
	. PCB Out of Service Da	te: /0/	30/03	S	R#	69	9062-	23	
	EMTREC Emergency Rospo								4171
	INFOTRAC 815	<del>1</del> 19284	<u>(800) 535</u>	- <u>S</u> -C	153	OM	Contra	ナ	
	<ol> <li>GENERATOR'S CERTIFICATION: I hereb classified, packed, marked and tabeled, and are in all and state laws and regulations.</li> </ol>	y declare that the c i respects in proper o	ontents of this consignmen condition for transport by hig	t are fully hway acco	and accuration	ately desc plicable in	cribed above by parternational and na	roper ship itional gov	ping name and are ernment regulations
1									
	If I am large quantity generator, I certify that I have	a program in place t	o reduce the volume and to	oxicity of v	vaste genera	ated to th	e degree I have d	letermined	i to de economicaliv
	If I am large quantity generator. I certify that I have practicable and that I have selected the practicable mand the environment; OR if I am a smaller generator,	nethod of treatment is	storage or disposal currently	v evailahla	to me which	n minimiz	on the present and	4 61 181 15 - 4 15 1	raat ta bumaan baatt
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R11/6/03D





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/31/03 as described on Hazardous Waste Manifest number NYH1352169 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8157928401

CWM Unit #: 1\*0 Disposal Date: 10/31/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 256508 11/03/03

released muy

For questions please call our Customer Service Dept. at (800) 843-3604

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DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name  Printed/Typed Name  Signature  Mo. Day Year	N	YH1352178		OUS WASTE N								1 , <b>1</b> , 1, 1, 1, 1
WASTE MANIFEST  Generators through address Int. ARIL 1913 CER 1913 LP 131 CER	Plea	<del>,</del>			York 1	2212				(Haz	ardous Waste Ma	anifest 5/00)
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COPY 5-GENERATOR - MAILED BY TSD FACILITY





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

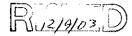
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 11/24/03 as described on Hazardous Waste Manifest number NYH1352178 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158011701

CWM Unit #: 1\*0 Disposal Date: 11/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 257667 11/25/03



Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

### **HAZARDOUS WASTE MANIFEST**

P.O. Box 12820, Albany, New York 12212

(Hazardous Waste Manifest 5/00)

	WASTE MANIFEST	i. Generators	DOSEPANO. PERBADA 1		149				in heavy bold line by Federal Law.
	Generator's Name and Mailing Address     NI AND FISHER GUIDE GM					A.	NYH13	521	8.7
	I GENERAL MOTORE DR	F.				B. G	enerator's ID	021	-01
	4. Generator's Telephone Number (1115 1) 35						SAME		]
	5. Transporter 1 (Company Name)	7	6. US EPA ID Number		p= 1 fm	C. S	tate Transporter's	ID.JEA	ICE-NY
	1. S. Bulk Transport 7. Transporter 2 (Company Name)	, Inc.	P <sub>1</sub> P <sub>1</sub> D <sub>1</sub> P <sub>1</sub> 8 <sub>1</sub> 7 <sub>1</sub> 8. US EPA ID Number	<u> </u>	<u> 51/12</u>		ransporter's Teleph tate Transporter's		88 6518182
				i 1 i	1 1		ransporter's Teleph		<del></del>
	Designated Facility Name and Site Address		10. US EPA ID Numbe	Γ		G. S	tate Facility ID		
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	16. GENERATOR'S CERTIFICATION: I here!	by declare that the	contents of this consignment	ent are fully	and accur	ataly da	ecribed above by n	roper obje	pping name and are
	classified, packed, marked and labeled, and are in a and state laws and regulations.							-	, 1
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-	to me and that I can afford.  Printed/Typed Name		Signature /				Dest Maste Hallay		
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2	Printed/Typed Name		Signature						Mo. Day Year
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COPY 5-GENERATOR - MAILED BY TSD FACILITY





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 11/24/03 as described on Hazardous Waste Manifest number NYH1352187 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

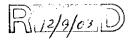
Profile Number: CP2002 CWM Tracking ID: 8158012301 CWM Unit #: 1\*0

Disposal Date: 11/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 257671

11/25/03



### NYH1352196 Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

DIVISION OF SOLID & HAZARDOUS MATERIALS

#### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

(Hazardous Waste Manifest 5/or

	UNIFORM HAZARDOUS WASTE MANIFEST	1 Generator's			t Doc. No.	2. Pa	-   IIIIOIIIIa		n heavy bold	
	3. Generator's Name and Mailing Address	<u>4 1 4 42 42 </u>	<u>l: l' b p.6 () 1</u>	1 KA/		A.	<u> </u>	<u> </u>	Federal La	IW.
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	4. Generator's Telephone Number ( 3 1 5 3 3 5	5 5.3 <b>6</b> 4				ŀ	i Afil:			
	5. Transporter 1 (Company Name)		6. US EPA ID Numbe			C. S	tate Transporter's I	DXS3	10270	PA
	7. Transporter 2 (Company Name)	Inc	P 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	<u> 347.</u>	5115	D. T	ransporter's Teleph	one (K	881651	4182
	(company tunio)			er 		1—	tate Transporter's I ransporter's Teleph			
	9. Designated Facility Name and Site Address		10. US EPA ID Numb		<u> </u>		tate Facility ID	one (		
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			1949934	)  3 <b>(</b> 3 (	12. Con	ainers	13. Total	ひょう 1 14. Unit		
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1	HEMTREC Emergency Respo	inse Numb	er (800)42	4-936	() UM)	Co	o bract.	FRCE	171	
	16. GENERATOR'S CERTIFICATION: 4 heret classified, packed, marked and labeled, and are in all	<del>/20</del>	<u>(800) 53</u>	5.50	53_	GN	Contrac	+		
	classified, packed, marked and labeled, and are in all and state laws and regulations.	il respects in proper	contents of this consignm condition for transport by t	ent are fully nighway aco	and accurated and and accurate	ately des plicable i	scribed above by pro International and nat	oper shipp ional gove	ing name ar rnment regul	nd are lations
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COPY 5-GENERATOR - MAILED BY TSD FACILITY





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

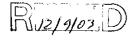
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Profile Number: CP2002 CWM Tracking ID: 8158012001

CWM Unit #: 1\*0 Disposal Date: 11/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 257670
11/25/03



Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

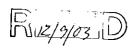
DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

### HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

(Hazardous Waste Manifest 5/00)

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US		1	Doc. No.	2. Page 1	inorma		n heavy bold line y Federal Law.
	3. Generator's Name and Mailing Address INLAND FISHER GUIDE ON 1 GENERAL MOTORS DR					A. N B. Gene	YH13	522	.05
	SYRACUSE MY 13206-048 4. Generator's Telephone Number (215-432					B. Gene			
ľ	5. Transporter 1 (Company Name)		6. US EPA ID Num		فد ، مم				10405-NY
-	7. Transporter 2 (Company Name)	$\frac{\partial C_i}{\partial C_i} = \frac{f}{f}$	1 1 1 1 1 8 V	<u> </u>	5/5		porter's Teleph Transporter's I		8816518182
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ŀ					Number	<del></del>	Quantity	Wt/Vol	I. Waste No. EPA
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ļ	b. 1 • 1  15. Special Handling Instructions and Additional Info	l d.		1		b.		d.	
ļ	. PCB but of Service Da	ite: !//	121/03	s	H#	701	311-5	<b>/</b> 	est - separ
	HEMTREC Emergency Respo TNFOTRAC \$1580	119	(800) 5	35 · 50	53	6M	Contra	KRO# E	
	<ol> <li>GENERATOR'S CERTIFICATION: I here classified, packed, marked and labeled, and are in a and state laws and regulations.</li> </ol>	by declare that the co ill respects in proper co	ntents of this consignation for transport	nment are fully by highway acc	y and accurate ording to ap	ately describ plicable inter	ed above by pr national and na	oper ship tional gov	ernment regulations
	If I am large quantity generator. I certify that I have practicable and that I have selected the practicable and the environment; OR if I am a smaller generator to me and that I can afford.	method of treatment, st	inrage or disposal cu	vrently available	e to me whic	h minimizae	the present and	future the	agt to human hoalth
Ī	Printed/Typed Name	1. 7.	Signature (		200	•			Mo. Day Year
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:	Printed/Typed Name	2.2.100	Signature						Mo. Day Year
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[	20. Facility Owner or Operator) Certification of recei	ot of hazardous mate		s manifest exc	ept as note	d in Item 19	9. /.		
	Printed/Typed Name HPC MOWShi		Signature	r Lu	cho	WSI	u		Mo. Dayr Xear,







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

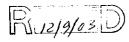
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 11/24/03 as described on Hazardous Waste Manifest number NYH1352205 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158011901

CWM Unit #: 1\*0 Disposal Date: 11/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 257669
11/25/03



In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

### DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212



(Hazardous Waste Manifest 5/00)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA No.	Manifest Doc. No.	2. Page 1 of		ion within heavy bold line quired by Federal Law.
3. Generator's Name and Mailing Address  [N] AND FISHER GUIDE CM	**	-1(25 1 ) 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A. NY	H13	52214
I GENERAL MOTORS DR SYRACUSE NY 13206 ON	£6.		B. Generato		JEET4.
4. Generator's Telephone Number ( ) 5	7 N. V & Mr.		SAM		
5. Transporter 1 (Company Name)	6. US EPA ID Numbe		C. State Tra	nsporter's IC	225488-NY
7. Transporter 2 (Company Name)	8. US EPA ID Numbe	1 (4) (5) (5) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	E. State Tra		one (800)8256001
Designated Facility Name and Site Address			F. Transport	<del></del>	
	10. US EPA ID Numbe	er	G. State Fac	cility ID	
CMB CHEMICAL BERVIOUS. 1556 PALMER RD.			H. Facility Te	elephone (	
MODEL CITY AT CALOT	N 16 D O I V I			754 1	
11. US DOT Description (Including Proper Shipping	g Name, Hazard Class and ID Number)	12. Cont Number		J. Total uantity	14. Unit Wt/Vol I. Waste No
a. RQ. POLYCHLORINATED	REFRENCE		4654		Wt/Vol I. Waste No. EPA
SOLID MIXTURE, 9, UN2:	315,111				STATE
b.		<u> </u>	210	000	EPA
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c.		_		Ш.	EPA
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J. Additional Descriptions for Materials listed Above	9	\$	K. Handling Co	des for Wa	stes Listed Above
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b. L • 15. Special Handling Instructions and Additional Info	d.	. •	b.	<u></u>	d.
t. PCB Out of Service Da	3 1 . 1/	2 30/35	7018	11 -	5
MEMTREC Emergency Response	ouse Number (800 42	5-9300 NM	Contr	erre.	PRCMIPLE
16. GENERATOR'S CERTIFICATION: I here classified, packed, marked and labeled, and are in a	132 (800) 53	5. 5053	GM C	ontin	· +
classified, packed, marked and labeled, and are in a	all respects in proper condition for transport by t	ent are fully and accura- nighway according to ap	ately described a plicable internati	above by pro onal and nati	oper shipping name and are lonal government regulations
If I am large quantity generator, I certify that I have practicable and that I have selected the practicable					
to me and that I can afford.	r, I have made a good faith effort to minimize my	waste generation and s	elect the best wa	iste manage	ment method that is available
Printed/Typed Name	Signature	. 11			Mo. Day Year
17. Transporter 1 Acknowledgement of Receipt of M	aterials (2007)	21 BKCB	n!	<del></del>	1/1/12//1013
Printed/Typed Name,	Signature				Mo. Day Year
18. Transporter 2 Acknowledgement of Receipt of M	laterials	- Carried Control		<u>-</u>	- HINLIG
Printed/Typed Name	Signature				Mo. Day Year
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19. Discrepancy Indication Space	a land				
actual week	34918K		· · · · · · · · · · · · · · · · · · ·		
20. Facility Owner or Operator: Certification of receip	pt of hazardous materials covered by this m	anifest except as note	d in Item 19.	<i>A</i>	Ma Davi V
Man Prechous	(1) Signature	- Seech	cours	K	Mo. Day Year
COPY	5-GENERATOR - MAILED	BY TSD FACI	LITY	· · · · · · · · · · · · · · · · · · ·	16 3 <u>1, 6   1</u>

R12/9/03 D





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 11/24/03 as described on Hazardous Waste Manifest number NYH1352214 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158013201

CWM Unit #: 1\*0 Disposal Date: 11/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 257679
11/25/03

result Juny

For questions please call our Customer Service Dept. at (800) 843-3604

R. 12/9/03 D

### NYH1352223 Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# P.O. Box 12820, Albany, New York 12212

**HAZARDOUS WASTE MANIFEST** 

(Hazardous Waste Manifest 5/00)

	ī	st Doc. No.	2. Page	l of Informa	ition within heavy bold line
WASTE MANIFEST  3. Generator's Name and Mailing Address		1/53	_	is not re	equired by Federal Law.
INLAND FIGHER CHIDE CM L GENERAL MOTORS DE					52223
SYRACUSE BY LACOR OURG 4. Generator's Telephone Number (NEW 1997) 1994			B. Gene	erator's ID	
Transporter 1 (Company Name)	6. US EPA ID Number	<del></del>			Grin , 3.0 c
Price Truck and Corn	WYD046765	5274			10700 27/11/NY
Price Trucking Corp.  7. Transporter 2 (Company Name)	8. US EPA ID Number			sporters leieph Transporter's l	one 1800 18256001
				sporter's Teleph	
Designated Facility Name and Site Address	10. US EPA ID Number	<del></del>	-	Facility ID	ione ( )
CWM CHEMICAL SERVICES, L.L.C. 1850 BALMER RD.	1		H. Facil	ity Telephone (	
MODEL CITY NY 14107	<u>棒草移单棒单移草棒</u>	177	7.	6 754	823 <u>1</u>
11. US DOT Description (Including Proper Shipping Name, Hazard	I Class and ID Number)	12. Cont		13. Total	14. Unit
a. 650		Number	Туре	Quantity	Wt/Vol I. Waste No.
* RQ. POLYCHEORINATED BIPHEN SOLID MIXTURE, 9. UN2315, 111	71.5 .		1 1.	337. AAAA	STATE
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d.		1	<del>  '- -</del>	.l	EPA
					STATE
J. Additional Descriptions for Materials listed Above		<del></del>	K. Handlin	g Codes for Wa	astes Listed Above
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		<u>†                                      </u>	a.		c
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b.   d.   d.   15. Special Handling Instructions and Additional Information		<u>•                                      </u>	b.		d
e. FCU dut of Service Date: $H$	, ,			811-6	
THERTEEL Emergency Response No	mber (800)424-934	DO MAI	Cout	trant ,	FRC#171
INFOTRAC 8/580/29	<u>(800) 5 55 + 5</u>	053	<u> ( ) 1</u>	1 Conti	act
<ol> <li>GENERATOR'S CERTIFICATION: I hereby declare that to classified, packed, marked and labeled, and are in all respects in pro- and state laws and regulations.</li> </ol>	per condition for transport by nighway ac	cording to ap	plicable inte	rnational and na	tional government regulations
If I am large quantity generator. I certify that I have a program in pli practicable and that I have selected the practicable method of treatment the program is the program of the program of the program in the program of the progra					
and the environment; OR if I am a smaller generator, I have made a g to me and that I can afford.	ood faith effort to minimize my waste ger	neration and s	elect the be	st waste manage	ement method that is available
Printed/Typed Name	Signature C	d 12 1	) .		Mo. Day Year
Edwin B. Kahn for James F. Hartne	17 Count	6 Kolh	n \		11/12/193
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name	Signature	64		/	Mo. Day Year
	Polech	6.7	1 4 3/	·	1/2/03
18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name	Sin-alima		<del></del>	<del></del>	·
Time a type a realine	Signature				Mo. Day Year
19. Discrepancy Indication Space					<u> </u>
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actual Read 3 30	27 K				
20. Facility Owner or Operator: Certification of receipt of hazardous	materials covered by this manifest.ex	cept as note	d in Item 19	9. 4	·
Printed/Typed Name				#	Mo, Day, Year
Rynn Pixchowski	17/4 Sul	cho	WISH	·	11249

COPY 5-GENERATOR - MAILED BY TSD FACILITY





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

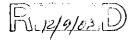
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 11/24/03 as described on Hazardous Waste Manifest number NYH1352223 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158012901 CWM Unit #: 1\*0 Disposal Date: 11/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 257676

11/25/03



## DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212



Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

(Hazardous Waste Manifest 5/00)

UNIFORM HAZARDOUS WASTE MANIFEST	<ol> <li>Generator's (</li> </ol>			t Doc. No.	1	ge 1 of			in heavy bold line
Generator's Name and Mailing Address	<u> </u>	<u>'   '                                  </u>	$\Box QI$	1/5H		<u> </u>	is not re	quired b	y Federal Law.
INLAND FISHER GUIDE GR					A.		113	522	232
SYRACUSE NY 13206 048 4. Generator's Telephone Number (313 \$33					1	ienerator's	טו		
Transporter 1 (Company Name)		6. US EPA ID Numbe	r		<b>_</b>	State Trans	nostaria II		
Translate & Comments &	W	UNBAIN A	h . 10	15. 1.6. 1		ransporte			
7. Transporter 2 (Company Name)		8. US EPA ID Numbe	<del>/10 lb.</del>	1.3 1.7 12		tate Trans	<u> </u>		<del></del>
0. Daily and 5. 77 M				<u> </u>	1	ransporte			)
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CWM CHEMICAL SERVICES, 1550 BALMER RD. MODEL CITY NY 14107		of the Karlon Barrows				acility Tele			)
	-	444444	· 13 (6 )	12. Con	_	716	Total	ل الله الحال 14. Unit	
11. US DOT Description (Including Proper Shipping	Name, Hazard Cla	ss and ID Number)		Number			intity	Wt/Vol	
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o. PCB Out of Service Da	wer U	121/03	S	K#	70	181	17	7	
THEMTREC Emergency Respo									171
TNEOTRAC RICSI	7/27	1800 5	25.51	0 < 2	1.	MI	A to	. 1/4	
GENERATOR'S CERTIFICATION: I heret classified, packed, marked and labeled, and are in all and state laws and regulations.	y declare that the coll respects in proper c	ontents of this consignment	ent are fully	and accur	ately des			per ship	ping name and are
- The state take after togalicatories									-
If I am large quantity generator. I certify that I have practicable and that I have selected the practicable in and the environment OB if I am a smaller congretor.									
to me and that I can afford.	Thave made a good i	alut ellort to minimize my	waste gene	eration and s	elect the	best waste	e managei	nent met	hod that is available
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Printed/Typed Name	neridis	Signature				<del></del>			
l San was the wife		Signaturo 1	JAK		-			N 2	∕lo Day Year
18. Transporter 2 Acknowledgement of Receipt of Ma	nterials								1/1/1/0/3
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19. Discrepancy Indication Space									
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20. Facility Owner or Operator: Certification of receip			nifest exc	ent as note	d in Iton	n 10 ·		<del></del> -	
Printed/Typed Name // /	<u> </u>	Signature	1	<i>J 1</i>		1 19.			Mo. Day /Year
Lynn Kechowsk	1	L 694.	-12	reh	DU	SK		 ./	12403

R12/9/03 D

COPY 5-GENERATOR - MAILED BY TSD FACILITY





INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

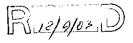
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 11/24/03 as described on Hazardous Waste Manifest number NYH1352232 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158012701 CWM Unit #: 1\*0 Disposal Date: 11/24/03

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RICHARD STURGES DISTRICT MANAGER Certificate # 257674

11/25/03

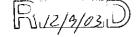


OWIT OF BELL TOLK DEPARTMENT OF ENVIRONMENTAL CONSERVATION & DIVISION OF SOLID & HAZARDOUS MATERIALS

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# HAZARDOUS WASTE MANIFEST

ica	se type or print. Do not staple.	r.u. bux 12	820, Albany, Nev	A LOLK I	2212			(Haz	ardous Waste Manifest 5/00)	
	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's	US EPA No. P. P. B. D. B. R. O	I	Doc. No.	2. Pag	r į insurmai	ion withit quired by	n heavy bold line y Federal Law.	
	3. Generator's Name and Mailing Address INLAND FISHER GUIDE GM I GENERAL MOTORS DR SYRACUSE NY 13206-04	86	<u> </u>				NYH13	522	241	
	4. Generator's Telephone Number (115 1)  5. Transporter 1 (Company Name)	2-5314	6. US EPA ID Numbe	r	<del></del>		AMr. tate Transporter's II	13/	M2'2 1	
	7. Transporter 2 (Company Name)		8. US EPA ID Numbe	1 6 5 1	517.14	D. Tr	ansporter's Telepho tate Transporter's II	опе (7	71618331919	
	Designated Facility Name and Site Address		10. US EPA ID Numbe	et 		F. Transporter's Telephone ( ) G. State Facility ID				
	CVM CHEMICAL SERVICES, 1550 BALMER RD, MODEL CITY NY 14107		 	្រី ម៉ <del>ែ</del> ដូ	;		acility Telephone(	5231	;	
	11. US DOT Description (Including Proper Shippin	ng Name, Hazard Cl	lass and ID Number)		12. Conta		13. Total	14. Unit		
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GENERATOR	c.			-· . <u>"</u>					EPA	
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1	J. Additional Descriptions for Materials listed Above	·				K Han	dling Codes for Wa	etae Liet	ed Abovo	
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	15. Special Handling Instructions and Additional Inf	o ama a tila ia	1/21/03	5	Rø	7 <i>C</i>	1811-8	<del></del>		
4	HEMTREC Emergency Resp		<i>f</i> /	4-930	o umi	Ćo		ERGA	13.73	
	<ol> <li>GENERATOR'S CERTIFICATION: I her classified, packed, marked and labeled, and are in and state laws and regulations.</li> </ol>	eby declare that the	contents of this consignm	ent are fully	t ond one	taly day	enibod obava by are		ping name and are ernment regulations	
	If I am large quantity generator. I certify that I hav practicable and that I have selected the practicable and the environment; OR if I am a smaller generate to me and that I can afford.									
	Printed/Typed Name Edwin B. Rahn for James F.	Hustne H	Signature Supplies	an D	Restr	: 		1/	Mo. Day Year	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of N Printed/Typed Name	Materials A	Signature	tH	/			. /	Mo. Day Year	
ANSP	18. Transporter 2 Acknowledgement of Receipt of N	Materials								
#	Printed/Typed Name  19. Discrepancy Indication Space		Signature		<b>1</b> -				Mo. Day Year	
ŽEI,	actual Re		4639K							
FACILITY	20. Facility Owner or Operator: Certification of rece	ipt of hazardous ma	terials covered by this m	anifest exc	ept as note	d in Iten	7.19.		Mo, Day/ Year	







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 11/24/03 as described on Hazardous Waste Manifest number NYH1352241 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

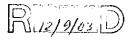
Profile Number: CP2002 CWM Tracking ID: 8158012501 CWM Unit #: 1\*0

Disposal Date: 11/24/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 257672

11/25/03



DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

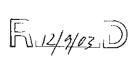
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Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

(Hazardous Wasle Manifest 5/00)

	UNIFORM HAZARDOUS WASTE MANIFEST	Generator's		1 .	t Doc. No.	2. Page	IIIIOIIIIa		in heavy bold line
ł	Generator's Name and Mailing Address	ALDOO	PPBVH	<u> P 101</u>	150	Α	Λ	-	y Federal Law.
	INLAND FISHER GUIDE ON I GENERAL MOTORS DE					N	YH13	522	259
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ł	Generator's Telephone Number (2.2.1.1.1)     Transporter 1 (Company Name)	. 1 2.8 8 18	6. US EPA ID Num	her		5A			
			MY100416		. c. 711	C. State	ransporter's I	0220	5488-NY
	7. Transporter 2 (Company Name)		8. US EPA ID Num	21 / 1 <u>/ / / / /</u> ber	. 21Z I <b>y</b>	F. State	Transporter's I	D oue (ž	300 3256001
				1 1 1	1 1 1		sporter's Teleph		)
	Designated Facility Name and Site Address		10. US EPA ID Nun	nber	<u> </u>		Facility ID		
	OWN CHEMICAL SERVICES.	L., L., C.,						· · · · · · · · · · · · · · · · · · ·	
	1550 HALMER RD. MODEL GITY NY 14107		V P D A A	11 1 6 9	is it is	H. Facil	)		
	11. US DOT Description (Including Proper Shipping	Name Hazard C	<del></del>	<del></del>	12. Cont		13. Total	14. Unit	
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ł	J. Additional Descriptions for Materials listed Above	<del></del>				K. Handlin	g Codes for Wa	etes lie	ted Above
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Ì	15. Special Handling Instructions and Additional Info		1/2:12		<u> </u>	D.	~	ď.	
- {	r. PCB Out of Service Da		1/24/03				963.		8158018
-	THEMTREC Emergency Respo	anse Num	ber (800)4	24 - 930	O MMI	Con	tract	ERCA	9171
r	16. GENERATOR'S CERTIFICATION: I herei	ny declare that the	-contents" of this conside	amont are full					
1	classified, packed, marked and labeled, and are in a and state laws and regulations.	Il respects in prope	r condition for transport b	y highway acc	ording to ap	plicable inte	rnational and na	tional gov	ernment regulations
	If I am large quantity generator. I certify that I have	a program in place	to reduce the volume a	nd toxicity of	waste gener	ated to the	degree I have de	etermined	to be economically
	practicable and that I have selected the practicable r and the environment; OR if I am a smaller generator, to me and that I can afford.	I have made a goo	i, storage, or disposal cur d faith effort to minimize i	rentiy availabi my waste geni	e to me whic eration and s	h minimizes elect the be	the present and st waste manage	future the ment me	reat to human health thod that is available
ŀ	Printed/Typed Name		Signature						Mo. Day Year
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2	Printed/Typed Name		Signature		16	7			Mo. Day Year
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4	Printed/Typed Name	atorialo	Signature	<del></del> -	<del>./</del>		<del></del>		Mo. Day Year
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-	19. Discrepancy Indication Space		<u> </u>						<u> </u>
-	artiRia 20	1/28 K	(						
2	20. Facility Owner or Operator: Certification of receip	t of hazardous ma	aterials covered by this	manifest evo	ent as note	d in Hem 1	 9		
-	Printed/Typed Name		Signature						Mo. Day Year
	Michelle Fler		Mia	1.11	H.			V	1/25/03







INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 11/25/03 as described on Hazardous Waste Manifest number NYH1352259 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158018201

CWM Unit #: 1\*0 Disposal Date: 11/25/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 257747 11/26/03

Jeliech Jungal



DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & AZARDOUS MATERIALS

#### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

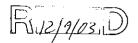
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Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212 (Hazardous Waste Manifest 5/00)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA No.	Manifest Doc.		I IIIOITIALIOTI W	ithin heavy bold line d by Federal Law.
3. Generator's Name and Mailing Address  NLAND FISHER GUIDE ON  CENERAL POTORS DR				′H1352	268
SYRACTISE NY 13200-048 4. Generator's Telephone Number (115-5)	ite in the second of the secon		B. Generat		
Transporter 1 (Company Name)	6. US EPA ID	) Number			255BB-NY
Price Trucking Corp. 7. Transporter 2 (Company Name)	WYPD	4676557	D. Transpo		8008256a01
7: Transporter 2 (Company Name)	8. US EPA ID	Number	E. State Tr	ansporter's ID	
Designated Facility Name and Site Address	10. US EPA II	L	F. Transpo G. State Fa	rter's Telephone	( )
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1550 BALBER RU. MODEL CITY WY 14107	N K \$ \$ \$	<u> </u>		Telephone ( - 754 (6일)	)
11. US DOT Description (Including Proper Shipping	Name, Hazard Class and ID Num	nber)		3. Total 14. U	
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ь.		<u>'</u>	11166	100 K	I/OOY EPA
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c.			<del>                                     </del>		
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J. Additional Descriptions for Materials listed Above	9		K. Handling (	Codes for Wastes I	isted Above
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b. ] •	d.	•	b.	d.	
15. Special Handling Instructions and Additional Info		SK#	7019	63-2	
TAFOTRAC 8158	189) andmin (800)	))424 9306 1 ) <u>535-50</u> .	MM1 Contr	Contes	W171
16. GENERATOR'S CERTIFICATION: I here classified, packed, marked and labeled, and are in a	by declare that the contents of this o	Considerment are fully and	accuratalis danasihad	above his assess	Minatan and and
and state laws and regulations.  If I am large quantity generator, I certify that I have specified by and that I have specified by	a program in place to reduce the vo	lume and toxicity of waste	generated to the deg	gree I have determin	ned to be economically
practicable and that I have selected the practicable and the environment; OR if I am a smaller generator to me and that I can afford.					
Printed/Typed Name	Signature	0	0	<u> </u>	Mo. Day Year
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17. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name	aterials Signature		···		Ma Day Visa
KOKOK A 7QE	3/1/4	1:166			Mo. Day Year
18. Transporter 2 Acknowledgement of Receipt of M	<del></del>	:			
Printed/Typed Name	Signature				Mo. Day Year
19. Discrepancy Indication Space					<u> </u>
Mar Re 23	1572 K				
20. Facility Owner or Operator: Certification of receip	ot of hazardous materials covered t	by this manifest except as	noted in Item 19		
Printed/Typed Name	Signature		(m)		Mo. Day Year
I HILL HECK		whill	Hud	_,_,_	11/4/2/DJ







INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

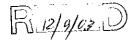
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 11/25/03 as described on Hazardous Waste Manifest number NYH1352268 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158017501 CWM Unit #: 1\*0

Disposal Date: 11/25/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 257740 11/26/03



DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

an transport Separatetrals	BO Box 1999 Albany New York 1					CMIL
ise type or print. Do not staple,	P.O. Box 12820, Albany, New York 1				(Haza	irdous Waste Manifest 5/00)
UNIFORM HAZARDOUS WASTE MANIFEST	i i	1 Doc. No. 1 5 8	2. Page 1	IIIIOIIIIa	tion within equired by	n heavy bold line / Federal Law.
3. Generator's Name and Mailing Address FML AMEL FESTIVE CULTED AND CENTRAL PUTCOSE THE AMEL AMEL AMEL AMEL AMEL AMEL AMEL AME			B. Genera		522	77
Generator's Telephone Number ( )      Transporter 1 (Company Name)			3 / 1 V			
	6. US EPA ID Number		C. State	īransporter's I	D 7/00	2A4-NY
7. Transporter 2 (Company Name)	)	5176	D. Transp	orter's Teleph	one (ج	00 825600
7. Transporter 2 (Company Name) 3	8. US EPA ID Number		E. State	ransporter's I	D	
Designated Facility Name and Site Address			F. Transp	orter's Teleph	one (	)
CWM CHEMICAL SERVICES.	10. US EPA ID Number		G. State I	Facility ID		
1550 BALMER RD.	*******	l	H. Facility	Telephone (		<del></del>
MODEL CITY NY 14107	NEDDARBAGA	6 7 9		6 754		·
11. US DOT Description (Including Proper Shipping	· · · · · · · · · · · · · · · · · · ·	12. Conta		13. Total	14. Unit	
11. 00 001 bescription (including Proper Shipping	y Name, Hazard Class and ID Number)	Number	Туре	Quantity	Wt/Vol	I. Waste No.
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:						STATE
c.		1		<u> </u>	++	EPA
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d.						EPA
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J. Additional Descriptions for Materials listed Above	9		K Handling	Çod <u>es for Wa</u>	astes Liste	ed Above
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b.	<u>  d.                                   </u>	<u>.</u> i	b.		d.	
15. Special Handling Instructions and Additional Info 3. 早代計 日43、お子 Gerytee Da		报准	701	963-	3	
HENTREC Smergency Responsi	oose Rumber (800)#24 930	O VAL	Cout	ract	ERCA	171
ciassineo, packeu, markeu anu labeleu, and are in a	by declare that the contents of this consignment are fully all respects in proper condition for transport by highway acc	and accure	tehr describe	ed above by prestional and na	roper chipo	ping name and are perment regulations
practicable and that i have selected the diacticable	e a program in place to reduce the volume and toxicity of a method of treatment, storage, or disposal currently available , I have made a good faith effort to minimize my waste gene	a ta ma whick	s minimizac t	no procent and	l futura thra	ant to bumon boolth
Printed/Typed Name	Signature				N/	no. Day Year
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17. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name	aterials Signature				<del></del>	
Pavel Zingy	24141		~ V		M	Mo. Day Year
18: Transporter 2 Acknowledgement of Receipt of M	aterials	- 1 3 7 B	<u> </u>		<u>I<sup>p</sup></u>	
Printed/Typed Name	Signature		<del> </del>		N	fo. Day Year
19. Discrepancy Indication Space						
40.	1000 V					l
	102 K					
	pt of hazardous materials covered by this manifest exc	ept as noted	d in Item 19			
Printed/Typed Name	Signature	,,,,,			V	lo. Day Year
MICHELLECK	Muchila	FLA	<u> 1</u>			<u> </u>

COPY 5-GENERATOR - MAILED BY TSD FACILITY

FACILITY





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

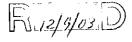
CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 11/25/03 as described on Hazardous Waste Manifest number NYH1352277 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158017701 CWM Unit #: 1\*0

Disposal Date: 11/25/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete. Julial Barry

RICHARD STURGES DISTRICT MANAGER Certificate # 257742 11/26/03



STATE FOR MEN TORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

## HAZARDOUS WASTE MANIFEST

(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212

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UNIFORM HAZARDOUS WASTE MANIFEST		fest Doc. No.	2. Page	I RECOURS	ition within heavy bold line equired by Federal Law.
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I CENTRAL MOTORS DE				erator's ID	J2200
SVRACUSE			1	ierators ib	
5. Transporter 1 (Company Name)	6. US EPA ID Number				D 2304B7-NY
Price Trucking (crp. /	VYD04676	5,5,74			ione (800)8236001
7. Transporter 2 (Company Name)	8. US EPA ID Number			e Transporter's	
Designated Facility Name and Site Address	1			isporter's Teleph	ione ( )
CWM CHEMICAL SERVICES, L.L.U.			G. Stat	te Facility ID	
1550 BALMER RO.				ility Telephone (	
MODEL CITY NY 1/107	<u> </u>	6 7 9	<u> </u>	16 754-	
11. US DOT Description (Including Proper Shipping Name, Hazard Class	ss and ID Number)	12. Con		13. Total	14. Unit Wt/Vol I Waste No
a. Dry Dry Verta september 6 11 Commence		Number	1	Quantity	Wt/Vol I. Waste No. EPA
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d.					EPA .
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J. Additional Descriptions for Materials listed Above			K. Handli	ing Codes for W	astes Listed Above
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b. 1 •     d.		<b>•</b> 1	ь.		d.
15. Special Handling Instructions and Additional Information  i. PCH Out of Service Date:	24/03	i dia ka	701	963-	W
			•		
THENTREC Emergency Response Number INFOTRAC	er (500) 1424-9 (500) 635-	300 WM	L CON	arace Lowye	ERGM71 ~~* 21500100
16. GENERATOR'S CERTIFICATION: I hereby declare that the co	ontents of this consignment are	fully and accur	ately descr	ribed above by n	roper shipping pame and are
classified, packed, marked and labeled, and are in all respects in proper c and state laws and regulations.					-
If I am large quantity generator. I certify that I have a program in place to practicable and that I have selected the practicable method of treatment, s and the environment; OR if I am a smaller generator, I have made a good I to me and that I can afford.	ieve vlinarius lezonzib in anai	lable to me whi	rh minimiza	se the processi and	I future threat to burnen bealth
Printed/Typed Name	Signature C	2 /2 /	7	•••	Mo. Day Year
Edwin B. Kann for James F. Hartnett	Colora 1	5 KM	16.	·	1/12403
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	//		<del></del>	Mo. Day Year
GEORGE FIRMEN		7			Mo. Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials		•			
Printed/Typed Name	Signature				Mo. Day Year
19. Discrepancy Indication Space		<del> </del>			1 1 1
Hamilton 25838K					
20. Facility Owner or Operator: Certification of receipt of hazardous mater Printed/Typed Name		except as not	ed in Item	19.	
Mrhalb Floor	Signature .	6			Mo. Day Year
		-/-		<u> </u>	THE WORLD
COPY 5-GENERA	TOR - MAILED BY	TSD FA	CILITY	<i>'</i>	





INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

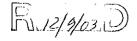
### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 11/25/03 as described on Hazardous Waste Manifest number NYH1352286 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158018401 CWM Unit #: 1\*0 Disposal Date: 11/25/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

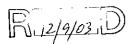
RICHARD STURGES DISTRICT MANAGER Certificate # 257749 11/26/03



# DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# HAZARDOUS WASTE MANIFEST

Plea	se type or print. Do not staple.	P.O. Box 128	820, Albany, New	York 1	2212			(Hazar	dous Waste Manifest 5/00			
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	16. GÉNERATOR'S CERTIFICATION: I hereb classified, packed, marked and labeled, and are in all and state laws and regulations.	respects in proper	condition for transport by his	ghway aco	ording to ap	plicable	international and na	tional gover	nment regulations			
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	and the environment; OR if I am a smaller generator, to me and that I can afford.	have made a good	I faith effort to minimize my v	vaste gene	ration and s	elect the	best waste manage	ment meth	od that is available			
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#### **CWM CHEMICAL SERVICES, LLC**

1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 11/26/03 as described on Hazardous Waste Manifest number NYH1352295 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158026101 CWM Unit #: 1\*0

Disposal Date: 11/26/03

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 257813

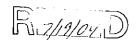
12/01/03



DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

### HAZARDOUS WASTE MANIFEST

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r. PCB Out of Service Date:	7/9/04	3Ř#	/ 4	C (D) 1/2	7	
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<ol> <li>GENERATOR'S CERTIFICATION: I hereby declare that classified, packed, marked and labeled, and are in all respects in p and state laws and regulations.</li> </ol>	the contents of this consignment are ful	he and a serve	4 a l			oping name and are rernment regulations
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#### **CWM CHEMICAL SERVICES, LLC**

1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 Fax (716) 754-0211

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 07/09/04 as described on Hazardous Waste Manifest number NYH1352304 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

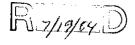
Profile Number: CP2002 CWM Tracking ID: 8158655401 CWM Unit #: 1\*0

Disposal Date: 07/09/04

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 267558 07/12/04

wells Trans



DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212 (Hazardous Waste Manifest 5/00)

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	to me and that I can afford.	, i nave made a good	faith effort to mi	nimize my waste gene	ration and se	elect the bes	t waste manage	ement met	hod that is ava	ailable
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#### CWM CHEMICAL SERVICES, LLC

1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 Fax (716) 754-0211

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 07/09/04 as described on Hazardous Waste Manifest number NYH1352313 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

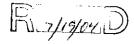
Profile Number: CP2002 CWM Tracking ID: 8158655601

CWM Unit #: 1\*0 Disposal Date: 07/09/04

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES # DISTRICT MANAGER Certificate # 267559

07/12/04



DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

### DIVISION OF SOLID & HAZARDOUS MATERIALS

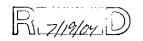
Please type or print. Do not staple.

case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212



1. Generator's US EPA No. **UNIFORM HAZARDOUS** Manifest Doc. No. 2. Page 1 of Information within heavy bold line WASTE MANIFEST 01164 is not required by Federal Law, 3. Generator's Name and Mailing Address NYH1352322 EMPAGES FIGHER CHISTRY THE PARTY OF THE PROPERTY YNACHSE WY I a time B. Generator's ID OAM 5. Transporter 1 (Company Name) 6. US EPA ID Number C. State Transporter's ID 225488-NY rice Trucking COIF. N.Y.DO46765574 D. Transporter's Telephone (800) 825/6207 7. Transporter 2 (Company Name) E. State Transporter's ID Transporter's Telephone 9. Designated Facility Name and Site Address 10. US EPA ID Number G. State Facility ID 69种(6种种16种)均和2010年度,10.10元。 THEO BALMER RD. H. Facility Telephone ( NUDEL CITY NY 14107 艾素烷二苯茚林二醇的过去 12. Containers 13. Total 14. Unit 11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number) Wt/Vol Number | Type Quantity I. Waste No. EPA RQ. POLYCHLORINATED BIFTERYLD, . βSΙ. 501.10 MIXTURE, 9, 002315, 111 STATE 16 34 1 b. EPA STATE ÈΡΑ STATE EPA STATE J. Additional Descriptions for Materials listed Above K. Handling Codes for Wastes Listed Above CAND BUTTORY 15. Special Handling Instructions and Additional Information POR Our of the place 1801#171 16. 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 If I am large quantity generator. I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a smaller generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available Printed/Typed Name Year Edwin B. Ruchn for James F. Huthoth 17, Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name --> Signature Mo. Day Year  $\sqrt{\omega/\sqrt{M}}$  $\partial A$ 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Mo. Day 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Signature



COPY 5-GENERATOR - MAILED BY TSD FACILITY



#### CWM CHEMICAL SERVICES, LLC

1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 Fax (716) 754-0211

INLAND FISHER GUIDE, GM

ATTN: ENVIRONMENTAL COMPLIANCE

NYD002239440

1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 07/12/04 as described on Hazardous Waste Manifest number NYH1352322 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158657901 CWM Unit #: 1\*0

Disposal Date: 07/12/04

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RICHARD STURGES DISTRICT MANAGER Certificate # 267577

07/13/04



DEPARTMENT OF ENVIRONMENTAL CONSERVATION \* DIVISION OF SOLID & HAZARDOUS MATERIALS

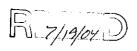
(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

#### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's				2. Page 1 c	IIIIOIIIIa	tion within	n heavy bold line v Federal Law.
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Price Trucking Col  7. Transporter 2 (Company Name)	ر شکو	NYDE CITY	-	6.2.W	D. Transo	orter's Teleph	one (6)	0487-NY 00 825E00
7. Transporter 2 (Company Name)	<del></del>	8. US EPA ID Nu	mber	<u>م اا ۶</u>	·	ransporter's I		<u> 20 %2.5E.EO</u>
Designated Facility Name and Site Address			ــــــــــــــــــــــــــــــــــــــ	<u> </u>	F. Transp	orter's Teleph	one (	)
		10. ÜS EPA ID N	umber		G. State F	acility ID		
CMM CHEMICAL SERVICES, 1550 BALNER RD.	A. s. B. a. b. a.				H Facility	Telephone (		<u> </u>
MODEL CITY NY 14107		建产业户住自	# # # # <b>6</b> #	h p } }		Telephone (		1
11. US DOT Description (Including Proper Shippin	g Name, Hazard C			12. Cont	ainers	13. Total	14. Unit	
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J. Additional Descriptions for Materials listed Abov		3.	·	<u>i</u> 1	Ž Haradina	<u> </u>		
at 17:2000 / 1906 / Surfa		2			K. Handling	Codes for wa	istes Liste	d Above
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ARMIREC Emergency Ropp							1 ROA	1 7 1
16. GENERATOR'S CERTIFICATION: I here classified, packed, marked and labeled, and are in a		(800)	53550	.53	CALL	on town	<i>*</i>	÷   3
	by declare that the	contents of this consi	gnment are fully	and accura	tely described	above by pro	per shippi	ing name and are
If I am large quantity generator, I certify that I have	a program in plane	to radical the cultime	22	5.5				
and the environment; OR if I am a smaller generator								
to me and that I can afford.  Printed/Typed Name			, made gone		CIOCUITO DOSL	тааце пнапа96		<del></del>
1	F. Hustret	Signature	. J. LA	2. A			M	lo. Day Yeal コマムなんかん
17. Transporter 1 Acknowledgement of Receipt of M		· CC	COVERLY SI	12 Ma	<u>*                                      </u>		1/2	<u> [Z   [ /   Z   [ /   /   /   /   /   /   /   /   /  </u>
Printed/Typed Name		Signature			e		M	o. Day Yea
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18. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name	аіепаіѕ	Signature	<del></del>	··············	<del></del>			
							M.	o. Day Yea
19. Discrepancy Indication Space	kn	100 (7) 11						<u> </u>
actual Book	<u>a</u> 22.	108K -						
20. Facility Owner or Operator: Certification of receip	of hazardoue mo	atorials covered by the	le manifect av		d im lt 40			
Printed/Typed Name	A OF HIGHARDUS ITE	Signature	,			J'		n Day a Van
Michelle Hede		$\perp$ //kd	A.B	1 10	P. A. S.	-		7172





#### CWM CHEMICAL SERVICES, LLC

1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 Fax (716) 754-0211

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 07/12/04 as described on Hazardous Waste Manifest number NYH1352331 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158658001

CWM Unit #: 1\*0 Disposal Date: 07/12/04

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 267578
07/13/04

collected many

For questions please call our Customer Service Dept. at (800) 843-3604

PUZ/18/04 D

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

## **HAZARDOUS WASTE MANIFEST**

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

se type or print. Do not staple.	P.O. Box 12	.820, Albany, I	New York 1	2212			(Hazard	lous Waste Manifest 5/00
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's	S US EPA No. -   P -	4.0	1 Doc. No.	2. Page 1	linoima	tion within	heavy bold line Federal Law.
3. Generator's Name and Mailing Address INLAND FESHER GUIDE GN 1 GENERAL MOTORS DR SYRACUSE NY 13206-04	St.		· · · · · · · · · · · · · · · · · · ·	11	A. N B. Gener	YH13!	523	49
4. Generator's Telephone Number (115 133)  5. Transporter 1 (Company Name)	2-5414	6. US EPA ID Nu	mher		1A 🖔		n 116 1	16 31 6 1 W
Tonawandu Tank Tran  7. Transporter 2 (Company Name)	sport_	$N_1Y_1D_1O_19_1$	7644	801	D. Transp	orter's Telepho	one (2/	.5369-NY 618739703
, , , ,		8. US EPA ID Nu	····· 			Transporter's I( oorter's Telepho		)
Designated Facility Name and Site Address     COM CHEMICAL SERVICES.	i , , , ,	10. US EPA ID N	umber		G. State	Facility ID		
1550 BALMER RD. MODEL CITY NY 1410?		 	វេស៊ី ដូច្នេ	, 7 P		y Telephone (	,	
11. US DOT Description (Including Proper Shippin	ng Name, Hazard C	class and ID Number	)	12. Conta		13. Total Quantity	14. Unit WVVol	I. Waste No.
a. RQ, POLYCHLOFINATED SOLID MIXTURE,9,UN2	#11:HEN'ST 315,417	.3,			£.:	T.	E	EPA STATE
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							<u> </u>	EPA STATE
d.		<del> </del>	<del></del>	<u> </u>				EPA
								STATE
J. Additional Descriptions for Materials listed Abortion (CP 24) O 2 - (3CP) - SO (1), a.	√ <del>0</del> 	s#			K. Handling a.	Codes for Wa	stes Listed	I Above
	<del></del>		I	P	<u>u.</u>		0.	
b. 1 •	d.		1 (		b.		d.	
15. Special Handling Instructions and Additional In 1. PCB Out of Service D	ormation alc:	7/04/04	3	K#	726	172 -	<u>S</u> S	8158ldd
HEMTREC Emergency Resp <i>INFOTRAX</i>	onse Num	ber (800)   <i>(800)</i> S	424-430 <b>35-50</b> 8	1MU 00 53 (2	Cont SM C	ract i	ergri et	71
<ol> <li>GENERATOR'S CERTIFICATION: I her classified, packed, marked and labeled, and are in and state laws and regulations.</li> </ol>	an respects in prope	r condition for transpor	t by highway acc	ording to app	licable interr	iational and nat	ional goveri	nment regulations
If I am large quantity generator, I certify that I hav practicable and that I have selected the practicable and the environment; OR if I am a smaller generate to me and that I can afford.	tuemiki oi ireaimeni	i sintane or nishosai d	Hitrantly available	sta ma which	minimizac t	ha araaant and .	£k 41	A A
The control to the first to the	s f. Hertmo	Signature Co	tein B	Rah	er e		Mo IOI	Day Year
17. Transporter 1 Acknowledgement of Receipt of I	vaterials							
Printed/Typed Name  DAVID A TEST		Signature		& -towards			Mo i⇔i	Day Year
18. Transporter 2 Acknowledgement of Receipt of I	<b>Materials</b>		<u> </u>	<u></u>	,e	<del></del>	1.2	<u> </u>
Printed/Typed Name		Signature			<u>-</u>		Mo	o. Day Year
19. Discrepancy Indication Space		l						_1_1_
Act Roc. 229	52K						*	
20. Facility Owner or Operator: Certification of rece	ipt of hazardous ma	aterials covered by th	is manifest exc	ept as noted	in Item 19.			
Printed/Typed Name		Signature		····			14-	Davi Vara



FACILITY



#### CWM CHEMICAL SERVICES, LLC

1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 Fax (716) 754-0211

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

#### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 07/13/04 as described on Hazardous Waste Manifest number NYH1352349 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158666101

CWM Unit #: 1\*0 Disposal Date: 07/13/04

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 persons who, acting under my direct instructions, made the vehification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER
Certificate # 267700
07/14/04

For questions please call our Customer Service Dept. at (800) 843-3604

F19/04D

# NYH1352358

DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

TRANSPORTER

FACILITY

P.O. Box 12820, Albany, New York 12212

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(Hazardous Waste Manifest 5/00)

WASTE MANIFEST	1. Generators		ľ	t Doc. No.	2. Page 1 of	IIIIOIIIIa	tion within h	eavy bold line ederal Law.	
3. Generator's Name and Mailing Address UNLAND FISHER CULLUM CM I GENERAL MOTORS OR	-		1: 1: (; 2 1 2)	4.15.6	A. NY	H13	5235	8	
SYRACUSE NS 13206 048 4. Generator's Telephone Number (315 %32	6 5 3 11 0				B. Generat				
Transporter 1 (Company Name)		6. US EPA ID N	umber		C State Tr		0 4 4 0	P 20 C C 113	
7. Transporter 2 (Company Name)	rsonet	NIVIDI/39	17/16/4/4	ROL	D. Transpo	rter's Teleph	one (7//	5369NY 08734703	
7. Transporter 2 (Company Name)		VIVIDIO 9 8. US EPA ID N	umber	<u> </u>	E. State Tr	ansporter's I	D	<del>2 8 /3 // ()</del>	
Designated Facility Name and Site Address		10. US EPA ID N	lumbor	L	F. Transporter's Telephone ( )				
CHE CHEMICAL SERVICES	\$ <b>*</b> •	10. 00 E(A)D	difficer		G. State Fa	icility ID			
3550 BAEMER AD.	, , , ,				H. Facility	Telephone (	)		
MOTILE CITY MY 14107 VERPER P. P. P.						, 75 <i>4</i>	0234		
11. US DOT Description (Including Proper Shipping	Name, Hazard Cla	ass and ID Numbe	r)	12. Cont	ı	3. Total	14. Unit		
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c.	<del></del>			<u> </u>		<u> </u>	E	PA	
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d.	<del></del> -	<del> </del>				<u> </u>		PA	
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J. Additional Descriptions for Materials listed Above					K. Handling C	odes for Wa	astes Listed	Above	
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15. Special Handling Instructions and Additional Information PCB Out of Security De		Les Loca			1-77 77 / 6	2011	,		
f	,	116/04			726				
CHEMTREC Emergency Respo INFOTRAC	and Bund	ner (800) <b>(200)</b>	:47,4 - 930 ::35 - 5/2				ERGAL		
16: GENERATOR'S CERTIFICATION: I hereh	y declare that the c	ontente of this con-	cianmant are fully			-1	2 1/3 V	(6)	
and state laws and regulations.	. , ,	condition for transpo	rt by nighway acc	ording to app	olicable internat	ional and nat	tional governr	ment regulations	
If I am large quantity generator. I certify that I have practicable and that I have selected the practicable mand the environment; OR if I am a smaller generator, to me and that I can afford.									
Printed/Typed Name		Signature (	ລຸ	10			Mo.	Day Year	
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17. Transporter 1 Acknowledgement of Receipt of Ma	terials	Signature 🧷							
18. Transporter 2 Acknowledgement of Receipt of Ma	(M)	Oignature	auce.	Jole	omn		мо. Д	Day Year	
Printed/Typed Name	tenais	Signature			·	<u> </u>		Day Yang	
							Mo.	Day Year	
19. Discrepancy Indication Space			· · · · · · · · · · · · · · · · · · ·						
Achon Rold 2/2018			·	<del></del>					
20. Facility Owner or Operator: Certification of receipt Printed/Typed Name	of hazardous mate		his manifest exce	ept as noted	d in Item 19.				
Hyur Cadwaradur		Signature	, Park	wal	, d		Mo.	Day Year	
<u> </u>		1 - トスパーに入	Lame ( /R/IL	スプグレス(	NW		10/1	419191	





#### CWM CHEMICAL SERVICES, LLC

1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 Fax (716) 754-0211

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 07/19/04 as described on Hazardous Waste Manifest number NYH1352358 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158682101 CWM Unit #: 1\*0

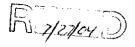
Disposal Date: 07/19/04

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 267956

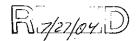
07/20/04

For questions please call our Customer Service Dept. at (800) 843-3604



# DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

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UNIFORM HAZARDOUS	1. Generator's			t Doc. No.	2. Pag	ge 1 of Informa		idous Waste Manifest 5/00) I heavy bold line
WASTE MANIFEST	I T Ti of the	P F B R H H	001	169				Federal Law.
3. Generator's Name and Mailing Address INLAND FISHER GRIDE UM I GENERAL MOTORS OR	,				A.	NYH13	523	67
SYRACUSE MY 13706 043 4. Generator's Telephone Number (315 33)	6 1 - 14 (1) 1 (1)				1	MIE		
5. Transporter 1 (Company Name)	4-	6. US EPA ID Nur		001			DACZ	5361-NY
Tong Wanda Tank Trail  7. Transporter 2 (Company Name)	sport .	W <sub>1</sub> Y <sub>1</sub> D <sub>1</sub> O <sub>1</sub> 9 <sub>1</sub> 8. US EPA ID Nur	<u>/   (シ  <b>ゲ</b>  <b>ゲ</b></u> nber	18101		ansporter's Teleph tate Transporter's I		1618739703
		<u> </u>		1 1 1		ansporter's Teleph		
Designated Facility Name and Site Address		10. US EPA ID Nu	mber		G. S	tate Facility ID		
CAN CHEMICAL SERVICES, 1850 BALMER RD. MODEL CITY BY 14107	<b>i</b> . <b>i</b> . i .	  Park   Park   Park   Park   Park   Park   Park   Park   Park   Park   Park   Park   Park   Park   Park   Park	ដូវត្			acility Telephone(		
11. US DOT Description (Including Proper Shipping	Name, Hazard CI	ass and ID Number)		12. Cont	ainers	13. Total	14. Unit	
				Number	Туре	Quantity	Wt/Vol	I. Waste No.
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J. Additional Descriptions for Materials listed Above		* · · · · · · · · · · · · · · · · · · ·			K. Han	dling Codes for Wa	stes Liste	d Above
aCP2002-PCB SOIL	c.				a.	ŧ.	c.	
b.     •     15. Special Handling Instructions and Additional Info	l d.			<u> </u>	b.		d.	
r. PCB Out of Service De	7	116/04	. 8	K #	720	6804-	Z	
CHEMTRIC Emergency Rempo	tres Mount					ntract	ERG#1	867es
<ol> <li>GENERATOR'S CERTIFICATION: I heret classified, packed, marked and labeled, and are in a and state laws and regulations.</li> </ol>	ii respecia ili proper	contents of this consig condition for transport	inment are fully by highway acc	and accura	itely des olicable i	cribed above by pro nternational and nat	ional gover	nment regulations
If I am large quantity generator. I certity that I have practicable and that I have selected the practicable n and the environment; OR if I am a smaller generator, to me and that I can afford.								
Printed/Typed Name Edwin B. Rudn for James 1		Signature Sal	urn D	Roll	n		 1 <i>О</i>	o. Day Year
17. Transporter 1 Acknowledgement of Receipt of Ma Printed/Typed Name	iterials	Signaturé 1//	111	Server state of the leading	11			
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#8. Transporter 2 Acknowledgement of Receipt of Ma	terials	10:		- 6 (21)			<u> </u>	<u> </u>
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Actical Record 26055K								
20. Facility Owner or Operator: Certification of receip			manifest exce	ept as noted	d in Item	19.	<del></del>	
PfInted/Typed Name 11/19616 adwalader		Signature	(AA	wa	1 ^	1	Mo	Day Year
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#### CWM CHEMICAL SERVICES, LLC

1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 Fax (716) 754-0211

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 07/19/04 as described on Hazardous Waste Manifest number NYH1352367 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158678501

CWM Unit #: 1\*0 Disposal Date: 07/19/04

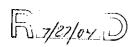
Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this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

RICHARD STURGES

DISTRICT MANAGER
Certificate # 267927
07/20/04

For questions please call our Customer Service Dept. at (800) 843-3604

07/20/04



DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# **HAZARDOUS WASTE MANIFEST**

(Hazardous Waste Manifest 5/00)

Please type or print. Do not staple.

In case of emergency or spill immediately call the Nional Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

P.O. Box 12820, Albany, New York 12212

	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's	US EPA No. <u>L≼ [ ⊴ [ ⊲ [ ⊴ [ ⊴ [</u> ⊴ ]	100	Doc. No.	2. Page 1 of	IIIIOIIIIa		n heavy bold line y Federal Law.
	3. Generator's Name and Mailing Address ্টোকাটেন সাম্প্রিটিটিন সূর্বি					A.	NYH1	39	4019
	r Calberton Most Allo (Al Thomas Sala (10 robles 11)					B. Generat			
	4. Generator's Telephone Number ( コンパ) マ 5. Transporter 1 (Company Name)	បាច ១មិធ្	6. US EPA ID Numbe	<del>_</del>		SAM:		. 2 %	- W E) // 1451
	7. Transporter 2 (Company Name)		$W_1 Y_1 D_1 O_1 Y_1 C_2$		374				58 & NY W 18236 A7
j	7. Transporter 2 (Company Name)		8. US EPA ID Numbe		<u> </u>		ansporter's I	<del></del>	to a famous dist
	Designated Facility Name and Site Address		10. US EPA ID Numb	er		<del> </del>	rter's Teleph	one (	)
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COPY 5-GENERATOR - MAILED BY TSD FACILITY



#### CWM CHEMICAL SERVICES, LLC

1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 Fax (716) 754-0211

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/18/04 as described on Hazardous Waste Manifest number NYH1394019 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

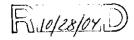
Profile Number: CP2002 CWM Tracking ID: 8158983101

CWM Unit #: 1\*0 Disposal Date: 10/18/04

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER Certificate # 271958 10/19/04

For questions please call our Customer Service Dept. at (800) 843-3604



# In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

NYH1394028

Please type or print. Do not staple.

#### DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212 S ANN

(Hazardous Waste Manifest 5/00)

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#### CWM CHEMICAL SERVICES, LLC

1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 Fax (716) 754-0211

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/18/04 as described on Hazardous Waste Manifest number NYH1394028 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8158984001

CWM Unit #: 1\*0 Disposal Date: 10/18/04

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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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 271967
10/19/04

our Customer Service Dept. at (800) 843-3604

For questions please call

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DELAKT MEIGT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# HAZARDOUS WASTE MANIFEST

P.O. Box 12820, Albany, New York 12212

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Designated Facility Name and Site Address		10. US EPA ID Numbe	] er	LL_I		sporter's Teleph	one (	)
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1550 BALMER RD	d				H. Facil	ity Telephone' (		)
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Printed/Typed Name		Signature /	11	i /				lo. Day Year
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20. Facility Owner or Operator: Certification of receipt	of hazardous mate	erials covered by this ma	nifest-exce	pt as noted	in Item 10			<u> </u>
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Rules por D

ENERATOR - MAILED BY TSD FACILITY

TRANSPORTER



#### CWM CHEMICAL SERVICES, LLC

1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 Fax (716) 754-0211

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/18/04 as described on Hazardous Waste Manifest number NYH1394037 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

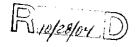
Profile Number: CP2002 CWM Tracking ID: 8158984901

CWM Unit #: 1\*0 Disposal Date: 10/18/04

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES DISTRICT MANAGER
Certificate # 271975
10/19/04

For questions please call our Customer Service Dept. at (800) 843-3604



# In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

NYH1394046

#### DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS OUTLE OF HEAA LOHK

# **HAZARDOUS WASTE MANIFEST**

Please type or print. Do not staple.

# P.O. Box 12820, Albany, New York 12212

	1. VVIA
(Hazardous Waste Manif	est 5/00)

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#### **CWM CHEMICAL SERVICES, LLC**

1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 Fax (716) 754-0211

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/19/04 as described on Hazardous Waste Manifest number NYH1394046 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

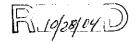
Profile Number: CP2002 CWM Tracking ID: 8158988001

CWM Unit #: 1\*0 Disposal Date: 10/19/04

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 272023
10/20/04

For questions please call our Customer Service Dept. at (800) 843-3604



CIVIT OF MEM TOUK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

# HAZARDOUS WASTE MANIFEST

Please type or print, Do not staple.

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

# P.O. Box 12820, Albany, New York 12212

	CVM
(Hazardous Waste Mani	fest 5/00)

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#### CWM CHEMICAL SERVICES, LLC

1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 Fax (716) 754-0211

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

# CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 10/19/04 as described on Hazardous Waste Manifest number NYH1394055 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

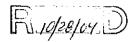
Profile Number: CP2002 CWM Tracking ID: 8158986301 CWM Unit #: 1\*0

Disposal Date: 10/19/04

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 persons who, acting under my direct instructions, made the verification) that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 272008
10/20/04

For questions please call our Customer Service Dept. at (800) 843-3604



In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

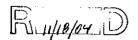
#### STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS

#### **HAZARDOUS WASTE MANIFEST** P.O. Box 12820, Albany, New York 12212



(Hazardous Waste Manifest 5/00)

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CWM Chemical Services, LLC 1550 Balmer Road PO Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

INLAND FISHER GUIDE, GM ATTN: ENVIRONMENTAL COMPLIANCE NYD002239440 1 GENERAL MOTORS DRIVE SYRACUSE NY 13206-0486

### CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from INLAND FISHER GUIDE, GM on 11/11/04 as described on Hazardous Waste Manifest number NYH1394064 Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: CP2002 CWM Tracking ID: 8159078301

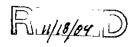
CWM Unit #: 1\*0

Disposal Date: 11/11/04

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 persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

RICHARD STURGES
DISTRICT MANAGER
Certificate # 273164
11/12/04

For questions please call our Customer Service Dept. at (800) 843-3604



# **Technical variances**

C-1	Technical variance # 1 – Soil bedding layer
C-2	Technical variance #2 – Woven geotextile on western rip-rap slope
C-3	Technical variance # 3/5 – Seed mixture
C-4	Technical variance #4 – Stone access road detail

Technical variance # 1 - Soil bedding layer



# RECEIVED

AUG 2 6 2003

O'BRIEN & GERE ENGINEERS, INC. SYRACUSE, NY

# TECHNICAL VARIANCE REQUEST

Project Name: Former Landfill IRM

Variance No.: 001

Project No.:

60709-5

Date:

August 26, 2003

Variance (include justification)

According to the Former Landfill IRM Design, Section 02292 (Soil Bedding Layer), Paragraph 2.1 (Soil Bedding Layer Material), B. "The soil bedding layer material shall be characterization as a sand, silty sand, silt, SM-SC, SW, SP or ML-CL."

Royal Environmental proposes to substitute Mirafi® S1200, nonwoven geotextile fabric for the specified sand type material as the underside geomembrane protection material.

For information purposes, the attached October 9, 2001, O'Brien & Gere Engineers, Inc. Memorandum from Nathyn M. Knipe provides a sound basis for the applicability of the proposed change.

The variance will serve to lower the overall finish grade of the Former Landfill and/or permit the placement of additional materials within the Former Landfill.

Royal Environmental will follow the attached installation guidelines for the installation of the Mirafi® S1200.

The Mirafi® S1200 will be continuously stitched together over the connection to adjacent panels with a "prayer fold" with a 4-inch minimum overlap.

The Mirafi® S1200 panels will mirror the panel layout provided for the 40-mil liner material.

The attached warranty is an example of the warranty to be provided for this project.

Requested By:
Reviewd
Approved By:

Douge M. Garaf

Date:

Date:

9/2/03



# **TECHNICAL VARIANCE REQUEST**

Project Name: Former Landfill IRM

Variance No.: 001					
Project No.:	60709-5				
Date:	August 26, 2003				
Variance (include jus	tification)				
Paragraph 2.1 (Soil I	ormer Landfill IRM Design, Section 02292 (Soil Bedding Layer), Bedding Layer Material), B. "The soil bedding layer material shall be sand, silty sand, silt, SM-SC, SW, SP or ML-CL."				
Royal Environmenta for the specified sand	I proposes to substitute Mirafi® S1200, nonwoven geotextile fabric d type material as the underside geomembrane protection material.				
	oses, the attached October 9, 2001, O'Brien & Gere Engineers, Inc. Nathyn M. Knipe provides a sound basis for the applicability of the				
	erve to lower the overall finish grade of the Former Landfill and/or t of additional materials within the Former Landfill.				
Royal Environmental the Mirafi® S1200.	I will follow the attached installation guidelines for the installation of				
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The attached warran	ity is an example of the warranty to be provided for this project.				
Requested By: Approved By:	David Nooduff Date: 8/24/03  Date:				
PO Box	15719 • ROCHESTER NY 14615 • (585) 254-1840 • (585) 254-3134				

#### Attachements:

- A. Memorandum from Nathyn M. Knipe of O'Brien and Gere Engineers, Inc. dated October 9, 2001, and supporting documentation (6 pages).
- B. Manufacturers' Technical Data Sheet for Mirafi® S1200 (1 page).
- C. Manufacturers' S-Series Nonwovens Requirements Information (1 page).
- D. Manufacturers' Installation Guidelines (4 pages).
- E. Not Used
- F. Manufacturers' Needle Detection Statement (1 page).
- G. Manufacturers' Letter Example Product Warranty (1 page).
- H. Manufacturers' Quality Control Plan (5 pages).

# Attachment A

Memorandum from Nathyn M. Knipe of O'Brien and Gere Engineers, Inc., dated October 9, 2001, and supporting documentation

From: Nathyn M. Knipe

Non-woven geotextile vs. Sand bedding layer Re:

49566/21535 #2 File: Date:

D.: Woodruff (Royal) D. Crawford (OBG) October 9, 2001 D. Farber (OBG)

B. Kubiak (OBG) C. Leary (OBG)

J. Hartnett (GM)

This memorandum serves to provide an evaluation of substituting a non-woven geotextile for the 6 inch sand bedding layer in the Former Landfill IRM design. A 12 oz/yd2 non-woven geotextile is being proposed by Royal Environmental as a substitute to the 6 inch sand bedding layer. The non-woven geotextile would be placed below the 40 mil HDPE geomembrane and would serve to offer puncture protection to the 40 mil HDPE geomembrane.

Attached are the design calculations for determining the factor of safety with respect to puncture resistance of a 12 oz/yd2 non-woven geotextile for this design. They were provided by Royal Environmental. These calculations, performed by SI Geosolutions using the internet site www.landfilldesign.com, were reviewed and considered to be accurate. They were checked for accuracy by performing the calculations by hand and by calculating the geotextile weight with a known factor of safety. Based on the calculations performed, a 12 oz/yd2 non-woven geotextile proved to be a sufficient substitution for the 6 inch soil bedding layer.

SI Geosolutions recommends the use of Geotex 1291 as the 12 oz/yd<sup>2</sup> non-woven geotextile to be substituted for the 6 inch soil bedding layer. Royal Environmental proposed Mirafi S1200 as a substitute for the Geotex 1291. The specifications of each geotextile were compared and both are considered to be an acceptable alternative to the 6 inch sand bedding layer. The specification sheets for Geotex 1291 and Mirafi S1200 are attached.

In conclusion both the Geotex 1291 and the Mirafi S1200 are acceptable alternatives for the 6 inch sand bedding layer. However, NYSDEC will need to be given the opportunity to formally approve the alternative for the sand bedding laver.



August 31, 2001

Lyk Grant
Royal Environmental
face (315) 432 - 5067

Sabject:

Custion Material for Landfill Cap GEOTEX<sup>6</sup> 1291

Dear Mr. Grant

Anached are the calculations for the use of a nonwoven gentextile as a geomembrane puncture protection layer. This design is based on the use of a 12 oz/yd² nonwoven gentextile being used to protect a 40 ML HDPH geomembrane under, 10 inches of "Rm-of-Crusher", 6 inches of Binnainous Base Course and a 2 inch wear course, with H20 loading (14,515 kg / 32,000 lbs). Doe to the spreading of the load as transferred through the paying layers, a conservative reduction factor of 0.4 was applied to the H20 loading reducing it to approximately 5,806 kg (12,800 lbs). Then assuming a one square foot tire point and a unit weight of 10 kWm³ (125 lb/lt³) an equivalent depth of material of 33 m (108.3 ft) was used to model the load imposed on the liner.

Other parameters used were:

- 0.025 m (1 inch) for stone protrusion height
- 0.5 modification factor for subrounded stones (MFz)
- 0.83 modification factor for packing density (MFgD)
- 0.25 modification factor for arching in solids (MFA)
- 1.5 reduction factor for long-term creep (RF<sub>C2</sub>)
- 1.3 reduction factor for long-term chemical/biological degradation (RF<sub>CD</sub>)

Using the above parameters and the liner protection calculator from www.landfilldesign.com GEOTEX produced a safety factor of 5. Therefore, SI Geoschations would suggest that you consider the use of GEOTEX 1291 as an cost effective alternative to the 6 inch sand layer currently specified for liner protection material.

If you have any questions or comments while reviewing this information, please do not besimte to contact Symbetic Industries at (800) FIX-SOIL.

Respectfully.

Daniel Heat

NE Region Engineer

# landfilldesign.com...

Safety Factor against Geomembrane Puncture Calculator - Problem Statement

There are many circumstances where geomembranes are placed on or beneath soils containing relatively large-sized stones. For example, poorly prepared soil subgrade with stones protruding from the surface, and cases where crushed-stoned drainage layers are to be placed above the geomembrane.

In all of these situations, a nonwoven needle-punched geotextile can provide significant puncture protection to the geomembrane. The issue of determining the required mass per unit area of the geotextile becomes critical.

The method presented herein (Koerner, 1998) focuses on the protection of 1.5 mm thick HDPE geomembranes. The method uses the design by function approach.

$$FS = \frac{p_{con}}{p_{con}}$$

where:

FS

factor of safety against geomembrane puncture

 $P_{act}$ 

actual pressure due to the landfill contents or surface impoundment

Pallow

allowable pressure using different types of geotextiles and site specific conditions.

pallow is determined by the following equation:

$$P_{max} = \left(50 + 0.00045 \frac{M}{H^2}\right) \left[\frac{1}{MF_s^2 MF_{so}^2 MF_d}\right] \left[\frac{1}{RF_{co}^2 RF_{coo}}\right]$$

where:

Symbol	Name	Unit
Pallem	allowable pressure	kPa
M	geotextile mass per unit area	e/m2
H	beight of the protrusion above the subgrade	m
MFS	modification factor for protrusion shape	-
MF <sub>PD</sub>	modification factor for packing density	

.../FS\_determ.pl?M=405&d=33&m~10&H=0.025&MF\_S=0.5&MF\_PD=0.83&MF\_A=0.25&R8/29/01

MFA	modification factor for arching in solids	-
RFCR	reduction factor for long-term creep	
RF <sub>CBD</sub>	reduction factor for long-term chemical/biological degradation	-

# Modification Factors and Reduction Factors for Geomembrane Protection Design Using Nonwoven Needle-Punched Geotextile

MP <sub>S</sub>		MF <sub>PD</sub>		DIF <sub>A</sub>	
Angular:	1.0	Isolated	1.0	Hydrostatic	1.0
Subrounded:	0.5	Dense, 38 mm	0.83	Geostatic, shallow	0.75
Rounded:	0.25	Dense, 25 mm	0.67	Geostatic, mod.	0.50
		Dense, 12mm	0.50	Geostatic, deep	0.25

RF <sub>CBD</sub>		RF <sub>CR</sub>			
		Protraction (swc.) Mean per 11 less wegs (plan)	38	25	12
Mild leachate	1.1	Geomembrane alone	N/R	N/R	N/R
Moderate leachate	1.3	270	N/R	· N/R	>1.5
Harsh leachate	1.5	550	N/R	1.5	1.3
		1100	1.3	1.2	1.1
	··	>1100	1.2	1.1	1.0

# N/R = Not Recommended

### Input Data

M 405	Geotextile mass per unit area (g/m2)
d 33	depth of material on top of geomembrane (m)
ō 10	Unit weight of material on top of geomembrane (kN/m3)
II 0.025	Protrusion height (m)

#### Modification and Reduction Factors

$\mathbf{MF_S}$	0.5	
$MF_{PD}$	0.83	
MF <sub>A</sub>	0.25	
RF <sub>CR</sub>	1.5	
RF <sub>CBD</sub>	1.3	
Calcu	late Safety Factor	1

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#### Output Data

Factor of Safety against Geomembrane Puncture

5

#### References

Wilson-Fahrny, R.F., Narejo, D. and Koerner, R.M. (1996), "Puncture Protection of Geomembranes Part I: Theory", Geosynthetics International, Vol. 3, No. 5, pp. 605-628.

Narejo, D. and Koerner, R.M. and Wilson-Fahmy, R.F., (1996), "Puncture Protection of Geomembranes Part II: Experimental", Geosynthetics International, Vol. 3, No. 5, pp. 629-653.

Koemer, R.M., Wilson-Fahmy, R.F. and Narejo, D. (1996), "Puncture Protection of Geomembranes Part III: Examples", Geosynthetics International, Vol. 3, No. 5 pp. 655-675.

Koemer, R.M. (1998), Designing with Geosymhetics, Prentice Hall Publishing Co., Englewood Cliffs, NJ.



# **Product Data Sheet**

GEOTEX® 1291

GEOTEX 1291 is a polypropylene, staple fiber, needlepunched nonwoven geotextile manufactured at one of SI Geosolutions' facilities that has achieved ISO-9002 certification for its systematic approach to quality. The fibers are needled to form a stable network that retains dimensional stability relative to each other. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils. GEOTEX 1291 conforms to the property values listed below<sup>1</sup> which have been derived from quality control testing performed by one of SI Geosolutions' GAI-LAP accredited laboratories:

TO SECTION OF THE CONTRACT OF THE PARTY OF THE PARTY.

#### MARV<sup>2</sup>

PROPERTY	TEST METHOD	ENGLISH	METRIC
Mechanical			
Grab Tensile Strength	ASTM D4632	320 lbs	1420 N
Grab Elongation	ASTM D4632	50%	50%
Puncture Strength	ASTM D4833	210 lbs	930 N
Mullen Burst	ASTM D3786	620 psi	4270 kPa
Trapezoidal Tear	ASTM D4533	125 lbs	555 N
Wide Width Tensile	ASTM D4595	125 lb-in	21.8 Kn/m
UV Resistance	ASTM D4355	70%	
Hydraulic	1 1.07111.04333	1070	70%
	ASTM D4751	100 US Std. Sieve	0.150 mm
Hydraulic			
Hydraulic Apparent Opening Size (AOS)	ASTM D4751	100 US Std. Sieve	0.150 mm
Hydraulic Apparent Opening Size (AOS) Permittivity	ASTM D4751 ASTM D4491	100 US Std. Sieve 0.80 sec <sup>-1</sup>	0.150 mm 0.80 sec <sup>-1</sup>
Hydraulic Apparent Opening Size (AOS) Permittivity Permeability	ASTM D4751 ASTM D4491 ASTM D4491	100 US Std. Sieve 0.80 sec <sup>-1</sup> 0.29 cm/sec	0.150 mm 0.80 sec <sup>-1</sup> 0.29 cm/sec

#### NOTES:

The property values listed below are effective 9/6/00 are subject to change without notice.

SLLES WHISS OF MARKATS, EXPRESS OF MULTIC CONCERNANCE PRODUCT FURSHOND HEREVILLES OTHER THAN AT THE THE OF DELINEATE SHALL BE OF THE CLAUTE AND SPECIFICATION TO THE THE CHARLES OF THE CLAUTE AND SPECIFICATION OF THE CHARLES OF THE CHARLES OF THE CLAUTE AND SPECIFICATION OF THE CHARLES OF TH

Values shown are in weaker principal direction. Minimum average roll values are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.

# **Attachment B**

Manufacturers' Technical Data Sheet for Mirafi® S1200



# Mirafi S1200

Mirafi S1200 is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. S1200 is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Weight	ASTM D 5261	g/m² (oz/yd²)	407 (12.0)
Thickness	ASTM D5199	mm (mils)	3.30 (130)
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.38 (310)
Grab Tensile Elongation	ASTM D 4632	%	50
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.53 (120)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	4473 (650)
Puncture Strength	ASTM D 4833	kN (lbs)	0.80 (180)
Apparent Opening Size (AOS)	ASTM D 4751	mm	0.150
		(U.S. Sieve)	(100)
Permittivity	ASTM D 4491	sec <sup>-1</sup>	0.9
Permeability	ASTM D 4491	cm/sec	0.30
Flow Rate	ASTM D 4491	l/min/m²	2647
		(gal/min/ft²)	(65)
UV Resistance (at 500 hours)	ASTM D 4355	% strength	80
		retained	

Physical Properties	Test Method	Unit	Typical Value	
Roll Dimensions		m	4.5 x 91	
(width x length)		(ft)	$(15 \times 300)$	
Roll Area		m: (yd:)	418 (500)	
Estimated Roll Weight		kg (lb)	186 (409)	

DISCLAIMER: TC Mirafi warrants our products to be free from defects in material and workmanship when delivered to TC Mirafi's customers and that our products meet our published specifications. Contact your local TC Mirafi Representative for detailed product specification and warranty information.

# Attachment C

Manufacturers' S-Series Nonwovens Requirements Information



# S-Series Nonwovens Requirements

• S-Series products are non-inventory items. Allow a two-week lead-time to begin production from receipt of order. However, we may be able to begin production in a shorter period of time if the current schedule permits. The following minimum quantities will be required:

Product	Minimum Run
S600/15/300	42,000 Sq. Yds
S800/15/300	36,000 Sq. Yds
S1000/15/300	32,000 Sq. Yds
S1200/15/300	28,000 Sq. Yds
S1400/15/150	25,000 Sq. Yds
S1600/15/150	23,000 Sq, Yds

<sup>\*</sup> minimum runs are based on 12 hours production time

- The physical properties shown on our Technical Data Sheets cannot be altered to meet a particular project's specification. However, if a specification requires properties other than those of the standard S-Series, contact your Regional Manager. The project may warrant production of a special product.
- Be aware that a specification for a geotextile is usually more than a table of physical properties. Sometimes special testing frequencies, warranties, and submittal documents are required by the specification, particularly in landfill applications. Be alert for the following:
  - Certification that the product be "needle-free".
  - Long term warranties.
  - Detailed submittals: A technical data sheet and our Quality Control manual are always available for submittal.
  - Special testing frequencies: TC Mirafi's standard Quality Control procedure allows for the testing of all published properties, except AOS and UV Resistance, at a frequency of at least once per 100,000 square feet for the standard S-Series products.

If you encounter any of the aforementioned conditions in a specification, contact TC Mirafi.

Note:

The S-Series products were designed to provide nonwoven products which have Minimum Average Roll Values for Mass per Unit Area (weight) and Thickness, properties not provided by the N-Series.



# Attachment D Manufacturers' Installation Guidelines



# INSTALLATION GUIDELINES FOR GEOSYNTHETICS USED AS LINER REINFORCEMENT

# Prepared by



TC Mirafi 365 South Holland Drive Pendergrass, GA 30567

Tel: (706) 693-2226 Fax: (706) 693-2083

www.tcmirafi.com

April 1, 1997

General

This document is prepared to help ensure that the geosynthetic liner reinforcement, once installed, will perform its intended design function. To do so, the geosynthetic must be identified, handled, stored, and installed in such a way that its physical property values are not affected and that the design conditions are ultimately met as intended. This document contains information consistent with generally accepted practice of identifying, handling, storing and installing geosynthetic material. Failure to follow these guidelines may result in the unnecessary failure of the geosynthetic in a properly designed application.

#### Material Identification. Storage and Handling

The geosynthetic shall be rolled on cores having strength sufficient to avoid collapse or other damage from normal use. Each roll shall be wrapped with a plastic covering to protect the geosynthetic from damage during shipping and handling, and shall be identified with a durable gummed label or the equivalent, clearly readable on the outside of the wrapping for the roll. The label shall show the manufacturer's name, the style number, and the roll number. Roll identification corresponding to the proposed location of the roll as shown on the construction drawings and as approved by the Engineer, Owner and Contractor can be provided.

While unloading or transferring the geosynthetic from one location to another, prevent damage to the wrapping, core, label, or to the geosynthetic itself. If the geosynthetic is to be stored for an extended period of time, the geosynthetic shall be located and placed in a manner that ensures the integrity of the wrapping, core, and label as well as the physical properties of geosynthetic. This can be accomplished by elevating the geosynthetic off the ground and ensuring that it is adequately covered and protected from ultraviolet radiation including sunlight, chemicals that are strong acids or strong bases, fire or flames including welding sparks, temperatures in excess of 70°C (160°), and human or animal destruction.

# Geosynthetic Placement

Prepare the surface on which the geosynthetic reinforcement is to be placed so that no damage to the geosynthetic will occur. The subgrade should be cleared of all obstacles and prooffolled. The surface should be smooth and level such that any shallow depressions and humps do not exceed six (6) inches in depth and height.

Before unrolling the geosynthetic, verify the roll identification, length, and installation location with the contract drawings. While unrolling the geosynthetic, inspect it for damage or defects. Damage that occurs during storage, handling or installation shall be repaired as directed by the Engineer.

Orientation of the geosynthetic is of extreme importance since geosynthetics may vary in strength with direction. The geosynthetic should be rolled out and laid at the proper

elevation, location and orientation a shown on the construction drawings. The roll direction of the geosynthetic should be laid in the direction of the primary reinforcement. The Contractor is responsible for the correct orientation of the geosynthetic. The geosynthetic shall be cut to the measured length using a razor blade, scissors, sharp knife, or equivalent.

After being rolled out the geosynthetic shall be tensioned until taunt, free of wrinkles and laying flat. Adjacent geosynthetic rolls should be overlapped as necessary to ensure 100 percent coverage, unless other wise specified on the contract drawings. Adjacent geosynthetic panels should be joined with plastic ties spaced as necessary or sewn to prevent the loss of 100% coverage due to geosynthetic panel shifting during backfill operation.

Splices should be minimized in the primary strength direction. Therefore, when possible, the geosynthetic should be installed with the roll direction extending the full length of the reinforced area. Otherwise, splices along the roll direction should be limited to one splice per panel width and it should be constructed to ensure 100 percent strength efficiency. Splices occurring in adjacent panels should be staggered a minimum of fifteen (15) feet.

To install the geosynthetic around manholes and gas collection headers, slice the geosynthetic through the cross machine members an appropriate length to place around the obstacle. This will allow the geosynthetic to be installed in a continuous sheet over the top of the obstacle. Certain fill properties, fill placement procedures and/or weather conditions may require the reinforcement to be held in place by sandbags or fills, as directed by the Engineer.

#### Fill Placement

Deployment of fill should be be performed as directed by the engineer in charge of quality assurance. Fill should be compacted as defined in the project specifications or as directed by the Engineer. Fill placement and spreading should be done in a manner that prevents wrinkles and or slippage of the geosynthetic. Fill placement should proceed in the direction of the adjacent panel overlap, and from the bottom of the slope upward; however, temporary anchoring may be required, particularly at the top of the slope, to ensure that final anchoring is in accordance with the construction drawings.

After fill material is placed on the geosynthetic, final spreading and compaction may be carried our by a small dozer with low to moderate ground pressure and/or front-end loaders as site conditions permit. A minimum cover of twelve (12) inches should be maintained between preparation performed prior to geosynthetic placement and upon the size and angularity of fill material. The contractor is responsible for verifying any equipment loading constraints with the Engineer before fill placement begins.

Construction equipment shall not be allowed onto the exposed geosynthetic. Additional fill compaction can be accomplished after spreading, grading, and track/tire compaction

using either a pneumatic or vibrartory roller. Sheepsfoot rollers shall not be used for initial compaction, as the feet may damage the geosynthetic.

INSTLINRIDOC Revision: 0 Date: April 1, 1997

# Attachment F Manufacturers' Needle Detection Statement



6/3/2003

#### Needle Detection

Ten Cate Nicolon's nonwoven production lines are equipped with metal detection devices that constantly monitor for metal contaminants. If metallic contaminants are detected they are located and removed. Ten Cate Nicolon cannot be held responsible for contaminants incurred during shipping and handling. Ten Cate Nicolon's responsibility shall be limited to replacement of any contaminated material and shall not include any subsequent damage from the use thereof.

Quality Manager

Pendergrass, GA Facility



# Attachment G Manufacturers' Letter – Example Product Warranty

June 5, 2003

Mr. Jim Weeden CFP, Inc. PO Box 567 Pineville, NC 28134

RE: Saluda Dam Remediation 20 Year Warranty

Dear Mr. Weeden:

For the Saluda Dam Remediation project, Ten Cate Nicolon will warrant our product to be free from manufacturing defects and material degradation for a period of twenty years from the date of installation. Ten Cate Nicolon will replace defective product without charge to our customer. Replacement of the product is the buyer's sole remedy for a breach and Ten Cate Nicolon will not be liable for any consequential damage attributed to a defective product.

This warranty is based on the material being installed properly in a suitable application. Ten Cate Nicolon assumes no responsibility for the project material specification and its suitability in this application.

Sincerely,

John M. Henderson Director of Marketing

cc: Fred Chuck, Ten Cate Nicolon

# Attachment H Manufacturers' Quality Control Plan



#### Quality Control Plan Nonwovens

#### THE QUALITY SYSTEM

The Quality System is for the purpose of continuous improvement of our products and service. The Quality System will be assessed annually through audits and Management Reviews. The Quality Assurance Manager is responsible for establishing, implementing, and maintaining the Quality System.

It is the responsibility of each employee to perform tasks under the quality system assigned to them and to take appropriate actions to ensure that the quality system is followed and that all products of TC Mirafi conform to specification.

#### **PERSONNEL**

The Quality Control Lab consists of sufficient staff and testing equipment to properly conduct quality testing on TC Mirafi products. The QA Manager will determine "sufficient staff" based on testing needs. Resource requirements are regularly reviewed during Management Review.

#### TRAINING

A job description is maintained for each job classification. A training form is maintained for each employee in the QC Lab, detailing training activities. The Quality Assurance Manager and/or Human Resources maintain Job descriptions and training forms.

Individuals are qualified based on their abilities, education, on-the-job training, and other special skills.

#### **OUTSIDE SERVICES AND SUPPLIES**

TC Mirafi sciicits qualified vendors for products and services in order to maintain Quality Control and to make sure that the inspection practices and techniques assure delivery of only high standard quality materials and services.

Vendors will be verified by the Quality Assurance Manager prior to procurement, for their ability to meet requirements, performance records, and quality history.

Quality Control Plan - Nonwoven

Revision 1 8/15/01

nonconforming product is reviewed to determine whether the material will be scrapped, reworked, downgraded or continued through processing, reworked material is re-inspected and must meet requirements.

#### CORRECTIVE AND PREVENTATIVE ACTION

TC Mirafi recognizes that the effectiveness of the corrective and preventative action policy is crucial to the success of the Quality System.

Corrective Action procedures include:

Analyzing customer complaints.

Investigation into the root cause of nonconforming products and system nonconformances.

Determination of corrective action to eliminate the cause of the nonconformance.

The quality system provides for preventative action by reviewing data including: customer complaints, audit results, and past nonconformances to detect and eliminate potential causes of nonconformances

#### STATEMENT OF AUTHORITY

The Quality Assurance Manager has been assigned ultimate responsibility for implementing the Quality System and the authority for assuring its maintenance.

In the absence of the Quality Assurance Manager, the delegation of responsibility will be assigned to persons to act in those instances to ensure continuation of operations.

Responsibility for activities described under each element may be assigned to appropriate supervisors. Delegation of responsibility and authority includes responsibility to ensure all activities described in a procedure are implemented as written.

#### CERTIFICATIONS

All product certifications originate from the Quality Assurance Manager and are supported by test data.

Each shipment of material is certified to meet product specifications and is supported with actual test results. The results of each test, or series of tests, is recorded in a test report or test certificate and contains all the necessary information as follows:

Quality Control Plan - Nonwoven

Revision 1 8/16/01

Report identifiers identification of the test method Property values. Date of issue

The Quality Assurance Manager is responsible for signing reports or designating personnel to sign reports accepting responsibility that content of the report is accurate.

In the event a report or certification is sent to a customer and is determined to have an erroneous result, the QA Manager will amend the report, and the report will reflect a revision.

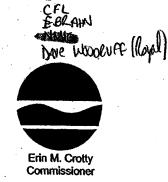
Where appropriate statements concerning confidentiality and reproducibility will be included.

New York State Department of Environmental Conservation

Division of Environmental Remediation 625 Broadway, Albany, New York 12233-7016

Phone: (518) 402-9767 • FAX: (518) 402-9020

Website: www.dec.state.ny.us



DUC BAK

September 12, 2003

James Hartnett
GM Powertrain
Remediation Project Office
6723 Towpath Road, GCOP Suite 255
Syracuse, NY 13214

Re: Former IFG Facility (Registry # 7-34-057) and Ley Creek Deferred Media NYSDEC Order on Consent Index # D-7-0001-97-06

Landfill IRM, Technical Variance 1, Soil bedding Layer

Dear Mr. Hartnett:

The Department has reviewed the Technical Variance 001, submitted on September 2 2003 regarding a variance to the specification regarding the soil bedding layer. The approved design requires a 6 inch sand layer beneath the geomembrane as protection material which meets the specification 02292. The variance submitted designates the use of Marafi © S1200, non-woven geotextile fabric in lieu of the specified sand material as the protection material.

Based upon the review of the information submitted with the variance, Technical Variance 001 is approved by the Department.

Sincerely,

Susan Benjamin

Suscen Denjamen

**Project Manager** 

cc:

B. Kogut

L. Fitzpatrick

B. Kubiak 🗸

Technical variance #2 – Woven geotextile on western rip-rap slope



## **RECEIVED**

JAN 2 8 2005

O'BRIEN & GERE ENGINEERS SYRACUSE, NY

#### TRANSMITTAL LETTER

То	
Nathyn Knipe	
O"Brien & Gere Engineers, Inc.	
5000 Brittonfield Parkway	
East Syracuse, New York 13057	

Date:	27-Jan-05	Project No:	60709-5
Attention:	Nathyn Knipe	Submittal No:	34
<sup>Re:</sup> F	ormer Landfill IRM		
F	ormer Inland Fisher G	uide Plant (GM) S	Syracuse

Qty.	Date	Description	Action*
3	27-Jan-05	Resubmittal - Technical Variance No. 002	R
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\*Action Letter Code:

R-for your review

I- for your information

Very truly yours,

Royal Environmental, Inc.

Paul Ministe

Paul Micciche

Project Manager



#### **TECHNICAL VARIANCE REQUEST**

Project Name: Former Landfill IRM REVIEWED REVIEWED SCEELY FOR GENERAL Variance No.: 002 COMPLIANCE WITH CONTRACT Project No.: 60709-5 DOCUMENTS O'BRIEN & GERE ENGINEERS, INC. Date: January 27, 2005 Variance (include justification) According to the Former Landfill IRM Design, Drawing G-6 "Proposed Cover Plan", Drawing Notes 1 and 2: "Rip-rap shall be underlain with Mirafi 500X and shall be installed per manufacturers' recommendations. In areas requiring rip-rap, 12-inches of fine rip-rap shall be installed over 6" of barrier protection material." Royal Environmental proposes to substitute 6-oz. Typar® SF65 Spunbonded Polypropylene, nonwoven geotextile fabric for the specified Mirafi 500x for a 185-foot section along the southwest bank beginning from the southern end of the bank proceeding north. The reason for the requested variance is Royal's field personnel mistakenly placed the requested substitute product and the rip-rap cover has been placed over top of the Typar® SF65 Spunbonded Polypropylene. The removal of the placed rip-rap and fabric posses a risk to damaging the Tri-Planer Geonet material and possible the 40-mil liner. The remaining western bank requiring placement of rip-rap will be underlain by Mirafi 500X woven geotextile fabric. Paul Muricle Requested By: Date: 01/27/05 Approved By: Date: Attachments: A. Specification sheet - Typar® SF65 B. Laboratory friction testing (direct shear test) results - Typar® SF65 and Barrier Protection Material



## Typar<sup>®</sup> SF

#### REVIEWED

REVIEWED SCLELY FOR GENERAL COMPLIANCE WITH CONTRACT

DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

									•		$\nabla$				
Property	Senten)	UNIT	N(1)	SF27	N7.02	SF37	(33(1)	SF44	ak o)	SF56	ं स	SF77	V.,	SF111	
Descriptive Properties															
Area Weight	014.14	g/m²		90 4		125	Ŷĸ.	150	110	190	24	260	10	375	
Thickness under 2kN/m²		mm		0.38	30 x 3	0.43	Fra C	0.46	14 (12)	0.54		0.65	16	0.85	
Thickness under 200kN/m²		mm	12.0	0.31		0.37		0.40	G R	0.48	(11)	0.59	159	0.79	
Mechanical Properties															,
Tensile Strength*		kN/m	400	5.1		8.0		10.0		12.8		20.0		29.0	
Elongation*	and the property	%		45	4	- 60		60		65		70		70	ı p
Strength at 5% elongation*	73518 s.344 <b>2</b> 8	kN/m		2.9		3.5		4.2		5.7		8.1		12.0	٠.
Energy Absorption*		kN/m		2		4		5		7		11		- 15	
Grab Strength	MINE OFFE	N	46	430	. Fell.	700	17.6	850	dalle	1100		1680		2410	
Puncture CBR**	12 1 12 12 12 1 1 1 1 1 1 1 1 1 1 1 1 1	N		800		1180		1550	(18)	1970		2800		3950	
Dyn. Cone Puncture		mm		48		35		28		24		25	71	15	
Burst Strength	artistitution	kPa		700		1050	11 6'01-	1260		1625		2250		3600	
Tear Strength		·N	- 40	190		300		395		. 460		475	717	640	
Puncture "US Rod"		N		160	70.8	225		270		350		475		700	
Hydraulic Properties		,						-					a ta		
Opening Size O <sub>90 Wet</sub>		μm		180		135	APVII)	105		80		60	- 17	55	
Opening Size O <sub>95 Dy</sub>	ASING PERI	μm	14	350		220	211	200	100	100		<75	ļģ.	<75	
opening the about		US Sieve		40		70	la la	70	4	140		>200		>200	
Permittivity	NEW YORK BEET	1/s	8.7	2.0		1.20		1.10		0.65		0.35		0.20	
Flow Rate at 50mm WH	Sin EEU	gal/ft min		140		85		80		45		27		10	
Permeability at 20 kN/m²		10 <sup>4</sup> m/s		3.6		2.4		2.1		1.4		1.0		0.7	
Permeability at 200 kN/m²	12050810187	10 <sup>4</sup> m/s		2.5		1.7		1.5		1.0		0.7	$\lambda$	0.5	

Equivalent to EN ISO 10319 and BS 6906-1 Equivalent to DIN 54307 and BS 6906-4

Natural UV light	Pred rederior in a creative in prived religi, esta esta esta en argunesse la resentar esta esta esta esta esta del recentar esta esta esta esta esta esta esta esta
Natural occuring acides and alkali	Eponesia .
Lactic acid (pH 2.4) 15 days at 50 °C	Birlingers
Natrium Carbonate (pH 11.6) 15 days at 50 °C	Pignicera
Calcium Hydroxyde Ca (OH) <sub>2</sub> (pH 12.5) 10g/l, 15 days at 25 °C	TrintStict

i rounce accompany	
Polymer	desertificações (8). Transcribado (2)
Specific gravity	
Melting point	
Type of fiber	estatitores (1800 es) es de la filosofia
Fiber diameter	Augumental - Land Chapter
Fiber bonding	Themslights Consider 18

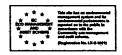
The values correspond to average results obtained in our laboratories and outside institutes and are indicative. The right is reserved to make changes at any time without notice.

Packaging Data						
Туре	width m	length m	area m²	diameter cm	weigh+ kg	rulls per 20' Fc1
SF 20	2.25	250	562	28	72	
J. 20	4.50	200	900	38	154	57
•	5.20	400	2080	32	36	40
SF27	2.10	100	210	24	24	-
	4.50	150	675	28	72	56
	5.20	150	780	28	83	55
SF32	2.00	150	300	29	38	•
	4.50	100	450	25	61	66
	4.50	150	675	29	86	56
	5.20	150	780 * ~	29	99	55
SF 37	2.10	150	315	29	45	_
	3.50	150	525	29	74	•
	4.50	100	450	27	<b>68</b> ·	66
	4.50	150 <sup>+</sup>	<b>675</b> .	29	97	56
	5.20	. 150	780	29	111	55
SF40	2.10	150 F	315	31	48	· •
	3.50	150	525	31	80	•
	4.50	100	450	. 27	72	66
•	4.50	150	675	. 31	103	56
·	5.20	150	780	31	119	55
SF44	4.50	150	675	31	111	56
	5.20	150	780	31	130	56
SF49	4.50	100	450	26	86	56
	5.20	100	520	26	99	55
SF56	4.50	100	450	29	97	56
	5.20	100	520	29	112	55
SF65	4.50	100	450	30	110	56
	5.20	100	520	30	127	55
SF77	4.50	100	450	32	128	56
	5.20	100	520	32	148	55
SF94	4.50	100	450	35	156	56
	5.20	100	520	. 35	180	55
SF111	4.50	100	450	37	180	56
	5.20	100	520	37	206	<b>55</b> .

400m long rolls available for major projects. For further information, please contact DuPont.











This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, DuPont makes no warranties and assumes no liabilities in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

#### REVIEWED

Typar\* DuPont Nonwovens L-2984 Luxembourg Tel: +352 3666 5779 Fax: +352 3666 5021 REVIEWED SOLELY FOR GENERAL **COMPLIANCE WITH CONTRACT DOCUMENTS** 

O'BRIEN & GERE ENGINEERS, INC.



**DuPont Nonwovens** 

## **GeoTesting** express

1145 Massachusetts Avenue Boxborough, MA 01719 978 635 0424 Tel 978 635 0266 Fax

#### REVIEWED

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 2/17/05 By 1111K

Trans	mitta	1	••	
то:		,		
Mr. Paul Mic	cciche	;F	DATE: 1/19/05	GTX NO: 5666
Royal Enviro	onmental		RE: Former Landfill	IRM; GMC Project
1 General M	lotors Drive			· · · · · · · · · · · · · · · · · · ·
Syracuse, N	IY 13206		• • • • • • • • • • • • • • • • • • •	
COPIES	DATE		DESCRIPTION	
	1/19/05	January 2005 Laboratory		
		1 four-point Interface She	ear Test Series (ASTM D 5	321)
			*	
	······································		**************************************	
		<u> </u>	·	
REMARKS:				
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		SIGNE	D: bull m	D nu
CC:				y Manager
		APPROVED BY	1: - 194	· · · · · · · · · · · · · · · · · · ·
			Fred Hooper - Laborate	ony Manager

## **GeoTesting** express

1145 Massachusetts AvenueBoxborough, MA 01719978 635 0424 Tel978 635 0266 Fax

#### REVIEWED

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 2/17/05 By MUK

## **Geotechnical Test Report**

January 19, 2005

Former
Landfill IRM
GMC
Project

Prepared for:

**Royal Environmental** 

#### **Geo**Testing express

#### Interface Shear Test Series by ASTM D 5321 REVIEWED

#### REVIEWED SOLELY FOR GENERAL

Client:

Royal Environmental

COMPLIANCE WITH CONTRAStart Date:

01/17/05

**Project Name:** 

Former Landfill IRM; GMC

DOCUMENTS

**End Date:** 

01/18/05

**GTX #:** 

1 General Motors Drive

O'BRIEN & GERE ENGINEERS, INC. Sted By:

RMT/BDF

5666

**Test Profile / Setup** 

**Project Location:** 

Series #5: steel plate / SOIL / GEOTEXT

Checked By: JDT

Top to bottom:

textured steel plate

Soil ID/Description:

Barrier Protection Layer: Moist, brown sand with silt and gravel.

**Soil Preparation:** 

Compacted to 95% of Maximum Dry Density at the Optimum Moisture Content (values

provided by client).

**Compaction Characteristics** 

**ASTM D 698:** 

Maximum Dry Density, pcf	Optimum Moisture Content, %
133.9	6.8

Geosynthetic Description /

Preparation:

Geotextile: SF65: Gray, non-woven geotextile.

Test inundated under normal load for 30 minutes prior to shear.

**Test Equipment:** 

Top box = 12 in x 12 in; Bottom box = 16 in x 12 in; Load cells and LVDTs connected to data acquisition system for shear force, normal load and horizontal displacement

readings; Flat plate clamping device; surface area = 144 in<sup>2</sup>

**Test Condition:** 

inundated

Horizontal Displacement, in/min: 0.039

Parameter	Point 1	Point 2	Point 3	Point 4	Point 5
Initial Moisture Content, %	7	7	7	7	****
Initial Dry Density, pcf	127	127	127	127	
Percent Compaction, %	94.8	94.8	94.8	94.8	
Normal Compressive Stress, psi	1.0	2.0	4.0	8.0	
Peak Shear Stress, psi	0.6	1.2	2.3	4.9	
Post Peak Shear Stress, psi	0.5	1.1	2.2	4.9	
Final Moisture Content %	18	17	18	17	

NOTE:

**Peak Friction Angle:** 

32

degrees

**Peak Cohesion:** 

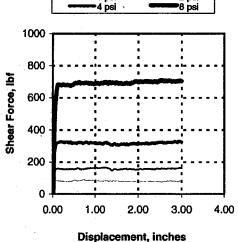
0 32 psi degrees

**Post Peak Friction Angle: Post Peak Cohesion:** 

psi

#### Figure a. Shear Force vs. Horizontal Displacement





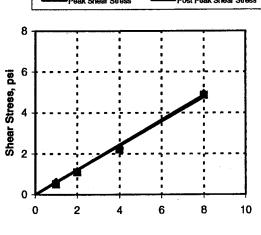


Figure b. Shear Stress vs. Normal Stress

Normal Stress, psi

Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Form D5321REP, version 2



**Innovative Geotextiles** 

## Mirafi<sup>®</sup> 500X

for Interlocking Concrete
Paver Stabilization

## Mirafi<sup>®</sup> 140N

for Subsurface Drainage

Property / Test Method	Unit	140N
MECHANICAL PROPERTIES		
Grab Tensile Strength ASTM D 4632		
Strength @ Ultimate	kN (lbs)	0.53 (120)
∃ongation @ Ultimate	%	50
Mullen Burst Strength	kPa	1550
ASTM D 3786	(psi)	(225)
Trapezoidal Tear Strength	kN	0.22
ASTM D 4355	(lbs)	(50)
Puncture Strength	kΝ	0.30
ASTM D 4833	(lbs)	(65)
<b>UV Resistance after 500 hrs.</b> ASTM D 4355	% strength	70
HYDRAULIC PROPERTIES		-
Apparent Opening Size (AOS)	US Sieve	70
ASTM D 4751	mm	0.212
<b>Permittivity</b> ASTM D 4491	SeC-1	1.8
Flow Rate ASTM D 4491	l/min/m² (gal/min/ft²)	5500 (135)
Packaging		
Roll Width	m(ft)	3.8 (12.5)
Doll Longth	m(ft)	4.5 (15.0) 110 (360)
Roll Length	• •	
Est. Gross Weight	kg(lbs)	74 (164) 89 (197)
Area	m²(yd²)	418 (500) 502(600)

Unit	500X
1	
KN (lbs)	0.90 (200)
% MD/ CD	15/ 10
kPa	2756 1900
(psi)	(400) <b>- (275)</b>
kN	0.33
(lbs)	(75)
kN	0.40 - SAME
(lbs)	(90)
% strength	<b>70</b> , ·
· · · · · · · · · · · · · · · · · · ·	
US Sieve	50
mm	0.30
sec.1	0.05
m(ft)	3.8 (12.5)
	5.3 (17.5)
m(ft)	132 (432)
	94.2 (309)
kg(lbs)	95 (210)
m²(yd²)	502 (600)
	kN (lbs) % MD/ CD kPa (psi) kN (lbs) kN (lbs) % strength  US Sieve mm sec <sup>-1</sup> m(tt)  m(tt)  kg(lbs)

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#### WARRANT

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PDS.500x140n.0304

#### CORPORATE OFFICE

365 South Holland Drive • Pendergrass, GA 30567 (888) 795-0808 • (706) 693-2226 • Fax (706) 693-4400



O'BRIEN & GERE E	NGINEERS, INC.		Cons	truction Modification
PROJECT:	GM Former Landfill IRM	. Р	ROJECT NO.:	4966/34126
ORIGINATOR:	Royal Environmental	. т	ECH. VARIANO	E: 2
CONTRACTOR:	Royal Environmental		ONTRACT NO	: N/A
DESCRIPTION & RE	ASON FOR MODIFICATION:			
See attached Technic	cal Variance request			<u>:</u>
				:
•	ition to Construction (Date):	2/15/2005	115	- Watter like
Managing Engineer:			Design VP:	
PLANS, SKETCHES	OR INSTRUCTIONS COMPLETE	D:		•
Cost of Modification	n: Engineer's Estimate:	N/A		
	Contractor's Proposal	:N/A		
Approval of Contra	ctor's Proposal: Managing	Engineer: 1	N/A	
Design VP. N/	Α	Contract Ad	min: N/A	
Client (Date):	N/A	_	inal Price: N	/A
Authorization to Co	ontractor (Date)			
Change Order No.:	N/A	• .	Date: N/A	
Cross Reference:	N/A			
Contract No.:	N/A		<u> </u>	
Modification No.:	N/A			

Technical variance #3 – Seed mixture



## RECEIVED

NOV 1 5 2004

O'BRIEN & GERE ENGINEERS, INC. SYRACUSE, NY

#### TRANSMITTAL LETTER

To:	
Nathyn Knipe	
O"Brien & Gere Engineers, Inc.	
5000 Brittonfield Parkway	
East Syracuse, New York 13057	

Date	11-Nov-04	Project No	60709-5
Attention	Nathyn Knipe	Submittal No	24
Re	Former Landfill Interim	Remedial Measu	e (IRM)
-	Former Fisher Guide (0	GM) Syracuse	

Qty.	Date	Description	Action*
3	11-Nov-04	Submittal for Technical Specification Section 02981 - Seeding	R
2 (0.0 1) 1 (0.0 2 de 10.0 0 1 (0.0 0)	any comments and a comment of		
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\*Action Letter Code:

R-for your review

I- for your information

Y-for your approval

Very truly yours,

Royal Environmental, Inc.

Paul Ministe

Paul Micciche

Project Manager



#### **PROJECT SUBMITTAL**

Project Name:

Former Landfill IRM

Submittal No.:

024

Subject:

Former Landfill IRM - Submittal for Technical Specification Section

0298

Project No.:

60709-5

Date:

November 11, 2004

Attached you will find the following submittals for Seeding:

- Documentation regarding seed vendor and warranty of seed species;
- Fertilizer and mulch vendor's certification; and,
- Hydroseeding application rate information.

Royal proposes to apply the fertilizer and seed through hydroseeding at the application rates specified in Section 02981. The Conwed Fibers 2000 product will be applied at a rate of 1,500 to 2,000 pounds per acre.

Merritt Seed Company

STANLEY M. BOOTS, TURF CONSULTANT

SPECIAL 2703 IN GRASS SEED MOTTURES - FERTILIZERS - EROSION CONTROL PRODUCTS - PROFILE CONNIED FIBERS DISTRIBUTOR - HYDROSEEDING WATERIALS

7880 GATES ROAD, BALDWINSVILLE, NEW YORK 13027 TELEPHONE: 315 838-0610 FAX: 316 838-0071 PROUGLY PROVIDING ALL YOUR SEEDING NEEDS SINCE 1958 mentioned.com

November 12, 2004

REVIEWED

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Millers Landscaping LLC 674! Happy Valley Rd. Verona, NY 13478

To whom it may concern:

This is to verify the seed mixture that Merritt Seed Company will supply to Millers Landscaping LLC, for use on the Former Landfill IRM Project, conforms to the following specifications:

Percent	Variety.	Purity	Germ
in Mix		98.00%	85%
40.00%	Pennlawn Red Fescue Vail Perennial Ryegrass	99.41% 97.00%	90% 90%
20.00 <b>%</b> 20.00%	Wizard Perennial Rye Kenblue Kentucky Bluegrass	99.22%	85%
20.00%	Kendiue Kennaday	the Lot N	imiber:

The seed was packaged in 40 pound sealed bags with labels bearing the Lot Number: MB2177, the Job: Former Landfill IRM, and the percentages of the mix for punty. germination, crop seed, weed seed content, and inert material.

I certify that the above information is correct to the best of my knowledge.

Stanley M. Boots
Owner

Merritt Seed Company

STANLEY M. BOOTS, TURF CONSULTANT

SPECIALIZATIO IN GRASS SEED MIXITURES - FERTALIZERS - EROSION CONTROL PRODUCTS - PROPILE CONNED FIBERS DISTRIBUTOR - HYDROSEEDING MATERIALS

7860 GATES ROAD, BALDWINSVILLE, NEW YORK 13027 TELEPHONE: 315 636-6610 FAX: 315 636-0071 PROUDLY PROVIDING ALL YOUR SEEDING NEEDS SINCE 1958 map.beatmen.www

November 12, 2004

REVIEWED

REVIEWED SOLELY FOR GENERAL **COMPLIANCE WITH CONTRACT** DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Millers Landscaping LLC 6741 Happy Valley Rd. Verona, NY 13478

To whom it may concern:

This is to verify the fertilizer that Merritt Seed Company supplied to Millers Landscaping for use on the Former Landfill IRM Project is as follows:

19-19-19

The manufacturer guarantees 19 pounds of available Nitrogen per CWT which is derived from Diammonium Phosphate and and/or Ureas and/or Sulfate of Ammonia.

The manufacturer guarantees 19 pounds of available P2O5 per CWT, which is derived from Diammonium Phosphate and/or Monammonium Phosphate and/or Superphosphate.

The manufacturer guarantees 19 pounds of available K2O per CWT, which is derived from muriate of Potash.

The product is packaged by the manufacturer in 50-pound bags bearing the 19-19-19 marking.

I certify that the above information is correct to the best of my knowledge.

M Boots All

Owner

**FINN** 

SPECIALIZING IN GRASS SEED MOXTURES - FERTILIZERS - EROSION CONTROL PRODUCTS - PROPILE CONWED FIBERS DISTRIBLTOR - HYDROSEEDING MATERIALS

7880 GATES ROAD, BALDWINSVI'LLE, NEW YORK 13027

TELEPHONE: 315 638-0610 FAX: 315 638-0071

REVIEWED PROUDLY PROVIDING ALL YOUR SEEDING NEEDS SINCE 1958

www.memittseed.com

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT

DOCUMENTS

To whom it may concern:

O'BRIEN & GERE ENGINEERS, INC.

REF: CONWED FIBERS 2000 CERTIFICATION

TO: STATE OR FED AGENCY, PROJECT OWNER, ETC

The manufacturer, PROFILE Products LLC, 750 Lake Cook Road, Suite 440, Buffalo Grove, Il 60089, CERTIFIES THAT CONWED FIBERS 2000 COMPLIES WITH THE FOLLOWING PRODUCT SPECIFICATIONS:

### PHYSICAL PROPERTIES

MOISTURE CONTENT ORGANIC CONTENT	12% +-3 96.2% +8 .8% +8
ASH CONTENT GUAR GUM TACKIFIER pH RANGE C FACTOR 2.5:1 SLOPE WATER HOLDING CAPACITY	3.0% MIN 4.8 +-1 .22 (2000 LBS / AC) 1350% MIN

#### **PACKAGING**

NET WEIGHT 50 LB BALE, 40 BALES PER PALLET

The wood fiber is packaged in 50 pound units displaying the manufacturer's name and address, net weight, and customer service telephone.

I certify that the above information is correct to the best of my knowledge.

Owner

FINN





**New York State Department of Environmental Conservation** 

Division of Environmental Remediation 625 Broadway, 12th Floor, Albany, NY 12233-7016

Phone: (518) 402-9767 • FAX: (518) 402-9020

Website: www.dec.state.ny.us



December 22, 2004

James Hartnett
General Motors Corporation
Remediation Team
1 General Motors Drive STE2
Syracuse, NY 13206-1127

Re:

General Motors-Former Inland Fisher Guide Facility/ Ley Creek Deferred Media Site

Administrative Order on Consent Index # D-7-0001-97-06

Former Landfill IRM Seed Mixture Variance

Dear Mr. Hartnett:

The Department has reviewed the Royal Environmental Variance for Seed Mixture dated November 17, 2004. This variance is approved based upon the information and certification supplied by Merritt Seed Company and attached to the request for variance.

Sincerely,

Susan L. Benjamin

Project Manager

cc:

B. Kogut

C. Leary

O.BKIEN & GEKE EV	IGINEERS, INC.	Construc	tion Modification
PROJECT:	GM Former Landfill IRM	PROJECT NO.:	4966/34126
ORIGINATOR:	Royal Environmental	TECH. VARIANCE:	5
CONTRACTOR:	Royal Environmental	CONTRACT NO.:	N/A
DESCRIPTION & REA	ASON FOR MODIFICATION:		
See attached Technic	al Variance request		
Preliminary Notificat	tion to Construction (Date):	11/11/2004	
Final Approval of Mo	odification Documents:	1/19/2005	
Managing Engineer:	tathy liky / Vas	Design VP: Oma	Ll
PLANS, SKETCHES	OR INSTRUCTIONS COMPLET	ED:	0
Cost of Modification	: Engineer's Estimate	: <b>N</b> /A	
	Contractor's Propos	al: N/A	
Approval of Contrac	tor's Proposal: Managin	g Engineer: N/A	· .
Design VP:N/A	<u> </u>	Contract Admin: N/A	
Client (Date):	N/A	Final Price: N/A	
Authorization to Co	ntractor (Date)		
Change Order No.:	N/A	Date: N/A	
Cross Reference:	N/A		
Contract No.:	N/A		

Modification No.:

N/A

Technical variance #4 - Stone access road detail

# REVIEWED REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT

DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

O'BRIEN O'BRIE



#### TRANSMITTAL LETTER

То:	
Nathyn Knipe	
O"Brien & Gere Engineers, Inc.	
5000 Brittonfield Parkway	
East Syracuse, New York 13057	

Date:	3-Feb-05	Project No:	60709-5
Attention:	Nathyn Knipe	Submittal No:	33
Re:	Former Landfill IRM		
	Former Inland Fisher Gu	uide Plant (GM) S	Syracuse

Qty.	Date	Description	Action*
3	3-Feb-05	Resubmittal - Technical Variance No. 004 - stone access road	R
			.,

\*Action Letter Code:

R-for your review

I- for your information

Very truly yours, Royal Environmental, Inc. . 1

Paul Ministe

Paul Micciche Project Manager



## TECHNICAL VARIANCE REQUEST Variance No. 004

Project Name: Former Landfill IRM

Project No.: 60709-5

Date: February 3, 2005

Variance (include justification)

REVIEWED

REVIEWED

REVIEWED

COMPLIANCE WITH CONTRACT

DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 2/17/05

By 1/1/1/105

By 1/1/1/105

By 1/1/1/105

By 1/1/1/105

Date 2/17/05

By 1/1/1/105

Date 2/17/05

By 1/1/1/105

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Date 2/17/05

Construction of the access road on the western margin of the landfill was undertaken in 2004, and the following cross-section (reference as Cross section TV-004A sequence) was placed in the location indicated on Figure 1 (attached):

- Top layer; 18-inches of run-of-crusher stone type "F" select fill
- Second layer; Mirafi S-1200 fabric
- Third layer; tri-planar geonet
- Fourth layer; 40 mil LLDPE geomembrane
- Fifth layer; Mirafi S-1200 fabric

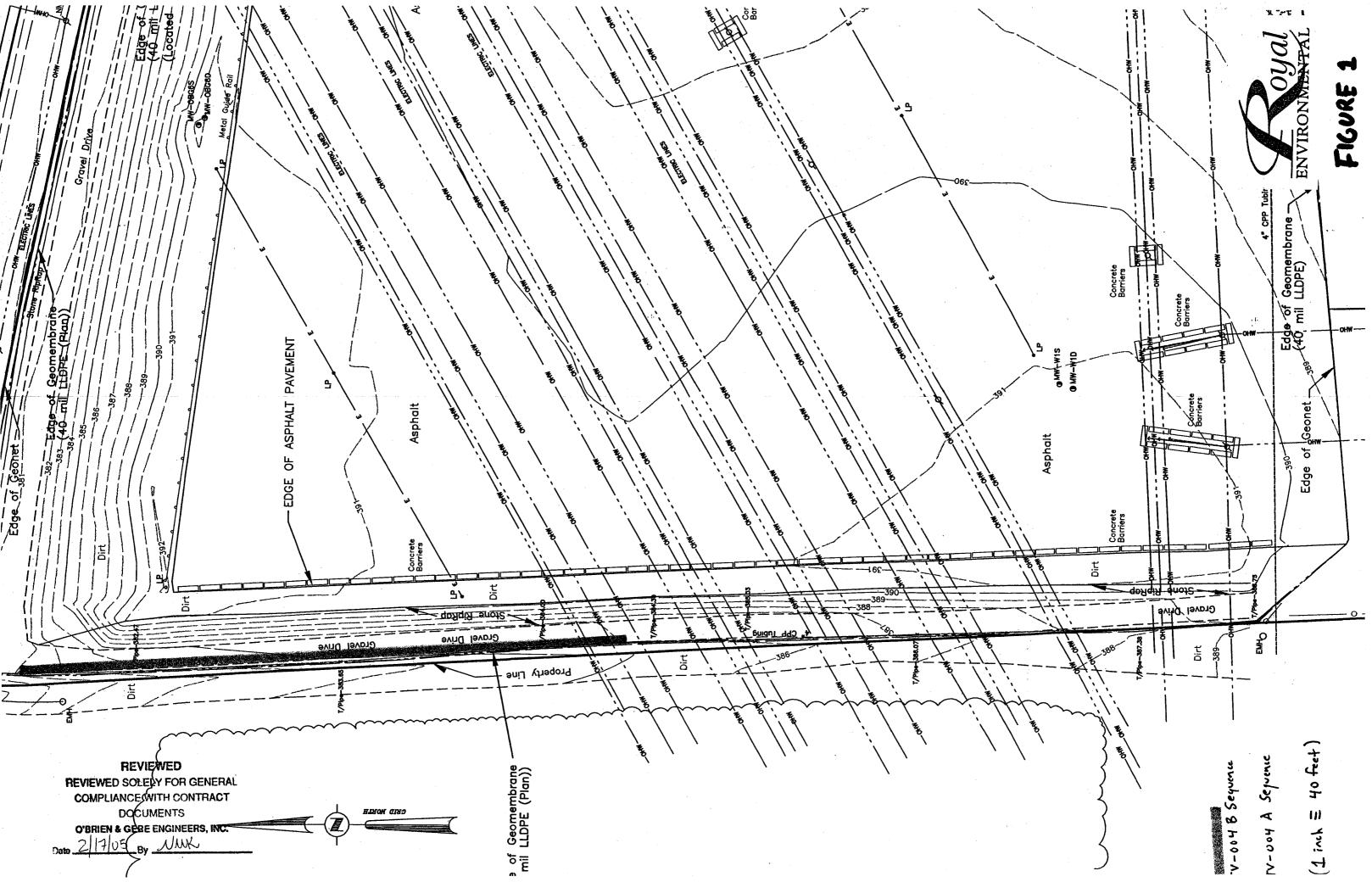
Note that the original design for the access road specified that a 6-inch thickness of barrier protection material be placed above the tri-planar geonet. In November 2003, all parties agreed that the barrier protection layer would be eliminated, and that an additional 6-inch thickness of run-of-crusher stone be added to the 12-inches specified.

For this variance Royal proposes to substitute the following vertical sequence of materials (reference as Cross section TV-004B):

- 'Top layer; 12-inches of run-of-crusher stone type "F" select fill
- Second layer, Mirafi 500X fabric
- Third layer, 8-inches crushed stone
- Fourth layer; tri-planar geonet
- Fifth layer; 40 mil LLDPE geomembrane
- Sixth layer; Mirafi S-1200 fabric

The variance will serve to accommodate for an inadvertent miscommunication between Royal's supervisor and construction personnel. Cross section TV-004B was placed in the location indicated on Figure 1.

Submitted By:	Paul Ministe	Date:	Feb. 3, 2005
Reviewed By:		Date:	



## **MQC & CQC documentation**

D-1	Geomembrane MQC - Raw material QC documentation, test results & physical properties
D-2	Geomembrane CQC – Friction testing
D-3	Geomembrane CQC – Installer subgrade acceptance
D-4	Geomembrane CQC – Geomembrane panel layout
D-5	Geomembrane CQC – Non-destructive and destructive seam testing results
D-6	Tri-planar geonet MQC – Test results
D-7	Barrier protection CQC – Test results and non-hazardous waste documentation
D-8	Rip-rap characteristics
D-9	Geotextile filter fabric CQC – Physical properties
D-10	Geotextile stabilization fabric CQC – Physical properties
D-11	Fertilizer and seed information
D-12	Asphalt testing results and specification information
D-13	Low permeability material – Test results and non-hazardous waste documentation
D-14	Electrical submittals

Geomembrane MQC - Raw material QC documentation, test results & physical properties



### Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at HOUSTON, TEXAS

Shippers No

35263

and at Houston, Texas from GSE Lining Technology, Inc. the property described below, in apparent good order, except as noted (contents and condition of packages unknown), marked, consigned, and destined as indicated below, which said Carrier agrees to carry to the place of delivery at said destination. It is mutually agreed as to each Carrier of all or any said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to the rates and contract agreed to in writing by GSE Lining Technology and Carrier. GSE Lining Technology's obligation to pay freight charges for the shipment is conditioned on (1) the existence of a separate written contract with the carrier transporting the freight and (2) the carrier's name appearing on this Bill of Lading, and other carriers must look solely to a party other than GSE Lining technology, Inc. for payment.

Ship To: Former General Motors Fischer Guide

C/o New England/Royal Envrionmental

One General Motors Drive Syracuse NY 13206

re

Date:

08/21/03

#### Roll Certifications Included

Branch Plant: 1500

.621811

Shipping Instructions:

Call David Woodruff@315-463-

2310 24hrs before delivery

Sales Order

31311 SO

No.		QTY		Kind	of Package, Description of Articles,	T	
Line	Roll #	Shipped	UM			Weight	Project# 513579
1	101108936	19575	SF	LLD040A000	40 mil Avg UltraFlex	3,900.0	Freight charges are
	•	į			Blk, VF, Smooth, 22.5'		prepaid unless marked
2	101108938	19575	SF	LLD040A000	40 mil Avg UltraFlex	3,930.0	collect.
					Blk, VF, Smooth, 22.5'		Check box if collect.
3	101108940	19575	SF	LLD040A000	40 mil Avg UltraFlex	3,920.0	
					Blk, VF, Smooth, 22.5'		Customer P.O. #:
4	101108966	19575	ŞF	LLD040A000	40 mil Avg UltraFlex	3,915.0	Customer F.O. #,
					Blk, VF, Smooth, 22.5'		GMS-080503
1	101109038	19575	SF	LLD040A000	40 mil Avg UltraFlex	3,905.0	If this shipment is to be
					Blk, VF, Smooth, 22.5'		delivered to consignor,
6	101109039	19575	SF	LLD040A000	40 mil Avg UltraFlex	3,900.0	consignor shall sign the
_	404400040	40575			Blk, VF, Smooth, 22.5'		following statement. Carrier may decline to
7	101109042	19575	SF	LLD040A000	40 mil Avg UltraFlex	3,890.0	deliver this shipment
8	101100044	40575	0.5		Blk, VF, Smooth, 22.5'	,	without payment of freight and all other lawful
0	101109044	19575	SF	LLD040A000	40 mil Avg UltraFlex	3,890.0	charges.
9	101109048	19575	SF	11 00404000	Blk, VF, Smooth, 22.5'		
"	101103048	19575	Эr	LLD040A000	40 mil Avg UltraFlex	3,885.0	
10	101109051	· 19575	SF	LLD040A000	Blk, VF, Smooth, 22.5'		Signature of Consignor
	101100031	, 13373	. Jr	ELD040A000	40 mil Avg UltraFlex	3,880.0	Signature of Consignor
11	101109053	19575	SF	LLD040A000	Blk, VF, Smooth, 22.5' 40 mil Avg UltraFlex	0.070.0	
' '	10110000	15075	01	LEDOTOROGO	Blk, VF, Smooth, 22.5'	3,870.0	Local Verification
					bik, VF, 3mooth, 22.5	•	Signed:
							<u>X</u>
							D:-1-11-4
				,			Pick Up #
			·				1950RR
	]						Seal #
.					•		σσαι π
							Truckers P.O. #
Ta.	tal Quantity: 215,325 Total Weight: 42,885.00						

#### **Driver Requirements:**

- 1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
- 2) Driver must call (281) 230-6781 when unloaded.
  3) Driver must call and advise any delay in transit.
- 4) A copy of this B/L must accompany Freight Invoice.

CA	RR	IFR	NA	M	F٠
$\sim$			110	LIV.	L

**CARRIER SIGNATURE:** 

DATE:

ORIGINAL



CoA Date: 07/11/2003

#### Certificate of Analysis

Shipped To: GSE LINING TECHNO

WESTFIELD

WESTFIELD TX 77090

Recipient: DON BOHAC

Fax:

281-230-8630

CPC Delivery #: 86411073

PO #:

Weight: 186700 LB Ship Date: 07/11/2003

Package: BULK

Mode:

Hopper Car Car #: CHVX896693

Product: PE 7104 BULK

Lot Number: CPG810040

Property	Test Method	Value	Unit .
Melt Index Density	ST-103 ST-292	0.36	g/10mi
	51-292	0.919	g/cm3

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Kay F. Donaldson

Quality Control Supervisor

For CoA questions contact Peter Scheirman at 713-289-4799



CoA Date: 07/21/2003

# Certificate of Analysis

Shipped To: GSE LINING TECHNO

WESTFIELD

WESTFIELD TX 77090

USA

Recipient: DON BOHAC

Fax:

281-230-8630

CPC Delivery #: 86417400

Weight: 188700 LB Ship Date: 07/21/2003

Package:

BULK

Mode:

Hopper Car

Car #:

CHVX896771

Product: PE 7104 BULK

Lot Number: CPG810070

Property			
rioparty	Test Method	Value	Unit
Melt Index Density	ST-103 ST-292	0.36 0.919	g/10mi g/cm3

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Kay F. Donaldson

Quality Control Supervisor

For CoA questions contact Peter Scheirman at 713-289-4799



CoA Date: 07/24/2003

# Certificate of Analysis

Shipped To: GSE LINING TECHNO

WESTFIELD

WESTFIELD TX 77090

USA

Recipient: DON BOHAC

Fax:

281-230-8630

CPC Delivery #: 86419466

PO #:

Weight: 187150 LB Ship Date: 07/24/2003

Package: BULK

Mode:

Hopper Car

Car #:

CHVX896845

Product: PE 7104 BULK

Lot Number: CPG810090

Property			·
	Test Method	Value	Unit
Melt Index Density	ST-103 ST-292	0.36 0.918	g/10mi g/cm3

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Kay F. Donaldson

Quality Control Supervisor

For CoA questions contact Peter Scheirman at 713-289-4799

CoA Date: 08/04/2003

#### Certificate of Analysis

Shipped To: GSE LINING TECHNO

WESTFIELD

WESTFIELD TX 77090

USA

Recipient: DON BOHAC

Fax:

281-230-8630

\*\*CPQ Delivery #: 86427351

PO #:

Weight: 187100 LB Ship Date: 08/04/2003

Package: BULK .

Mode:

Hopper Car

Car #:

CHVX889008

Product: PE 7104 BULK

Lot Number: CPG810170

Property	Test Method	Value	Unit
Melt Index	ST-103	0.35	g/10mi
Density	ST-292	0.919	g/cm3

The data set forth herein have been carefully compiled by Chevron Phillips Chemical Company LP. However, there is no warranty of any kind, either expressed or implied, applicable to its use, and the user assumes all risk and liability in connection therewith.

Kay F. Donaldson

Quality Control Supervisor

For CoA questions contact Peter Scheirman at 713-289-4799

## Roll Test Data Report

GSE Lining Technology, Inc.

Roll No. 104118791

ROLL IDENTIFICAT	ION		RESIN INF	ORMAT	IOI	V			
Roll Number 104118791		Lot Number		CPG8	1017	0			
Product Name LUT040A000		Type		7104					
Production Date 8/24/2003	·	Supplier	_	Chevro	on				
Length ≈(+/-1%) 700 213	feet meters	(	GSE RESIN	TEST L	)AT	Ά			
Width (Nominal) 22.5	feet	<b>Property</b>		Test M	etho	<u>od</u>	R	esults	
6.9	meters	Density, g/cc		ASTM I	D 15	505	(	0.919	
Sheet Area 15,750 1,463	sq. feet sq. meters	Melt index, g/10 min.	ASTA	M D 123	8 (1	90/2.16)		0.35	
Weight 3,750 1,701	pounds kilograms			•					
Physical Property	Test Method	Test Frequency	Customer l English	Minimur Metric		Tes. English	t Resu	lts Metric	
Thickness, mil (mm)	ASTM D 5994	<del></del>							
Average		every roll	40 ·	( 1.0	.)	41	(	1.0	)
Minimum		every roll	36	( 0.9	)	36	(	0.9	)
Tensile Properties:	ASTM D638, Type IV / D	6693							
Break Strength, ppi (N/cm) - TD		every 3rd	100	( 175	)	. 151	(	264	)
- M D		every 3rd	100	( 175	)	198	(	346	)
Break Elongation, % - TD	gauge length = 2.0"	every 3rd	50	00			613	•	
- M D	(51 mm)	every 3rd		00			798		
Tear Resistance, lb. (N)	ASTM D 1004			-					
- TD		every 3rd	22	( 98	)	34	(	150	)
- M D		every 3rd	22	( 98	)	34	. (	149	)
Puncture Resistance, lb. (N)	ASTM D 4833								
		every 3rd	48	( 211	)	88	(	393	)
Carbon Black Content, %	ASTM D 1603*								
		every 3rd	2	.0			2.8		
Carbon Black Dispersion Views in Cat1 - Cat2	ASTM D 5596	every 3rd	•	9			10		
Density	ASTM D 1505						٠		
	•	every 3rd	0.9	920			0.930	-	
Asperity Height Average (mils)	GRI GM 12	every 2nd		10			12		

Order No.

31311

Customer Name Project Name New England Liner Systems Former General Motors

Location Syracuse, NY

\*Modified



#### Roll Test Data Report

GSE	
	Lining

Lining Technology, Inc.

Roll No. 104118792

ROLL	IDENTIFICA'	TION	RESIN INFORMATION						
Roll Number	104118792		Lot Number	CPG810170					
Product Name	LUT040A000		Type	7104					
Production Date	8/24/2003		Supplier	Chevron	•				
Length ≈(+/- 1%)	700 213	feet meters	GS	E RESIN TEST DATA					
Width (Nominal)	22.5	feet	<b>Property</b>	Test Method	Results				
(,	6.9	meters	Density, g/cc	ASTM D 1505	0.919				
Sheet Area	15,750 1,463	sq. feet sq. meters	Melt index, g/10 min.	ASTM D 1238 (190/2.16)	0.35				
Weight	3,755 1,703	pounds kilograms							

Physical Property	Test	Test	Custom		ıimum	Test	Resu	lts	
	Method	Frequency	English	li I	Metric	English	Λ	Metric	<b>:</b>
Thickness, mil (mm)	ASTM D 5994								
Average		every roll	40	. (	1.0 )	· 41	(	1.0	)
Minimum		every roll	· 36	, . · (	0.9 )	37	(	0.9	)
Tensile Properties:	ASTM D638, Type IV / D6693	· ·							
Break Strength, ppi (N/cm) - TD		every 3rd	100	(	175 )	151	(	264	)
- M D	,	every 3rd	100	. (	175 )	198	(	346	)
Break Elongation, % - TD	gauge length = 2.0"	every 3rd		500			613		
- M D	(51 mm)	every 3rd		500			798		
Tear Resistance, lb. (N)	ASTM D 1004								
- TD		every 3rd	22	Ċ	98 )	34	(	150	)
- M D	•	every 3rd	22	(	98 )	34	(	149	)
Puncture Resistance, lb. (N)	ASTM D 4833								
		every 3rd	48	(	211 )	88	. (	393	)
Carbon Black Content, %	ASTM D 1603*								
		every 3rd		2.0			2.8		
Carbon Black Dispersion	ASTM D 5596				•				
Views in Cat1 - Cat2		every 3rd		9			10		
Density	ASTM D 1505			*	-				
		every 3rd		0.920			0.930		
Asperity Height	GRI GM 12	•							
Average (mils)		every 2nd	•	10			14		

Order No.

31311

Customer Name Project Name Location New England Liner Systems Former General Motors

Syracuse, NY

\*Modified



ROLL	<i>IDENTIFICAT</i>	TION	RESIN INFORMATION					
Roll Number	oll Number 104118793		Lot Number	CPG810170				
Product Name	LUT040A000		Type	7104				
Production Date	8/24/2003		Supplier	Chevron				
Length ≈(+/- 1%)	700 213	feet meters	GSE RESIN TEST DATA					
Width (Nominal)	22.5	feet	<b>Property</b>	Test Method	Results			
	6.9	meters	Density, g/cc	ASTM D 1505	0.919			
Sheet Area	15,750 1,463	sq. feet sq. meters	Melt index, g/10 min.	ASTM D 1238 (190/2.16)	0.35			
Weight	3,735 1,694	pounds kilograms						

Dhysical Dronouty	Test	Test	Custom	er Mir	nimun	n	Tes	t Resu	lts	
Physical Property	Method	Frequency	Englisi	l j	Metrio	:	English	1	Metric	;
Thickness, mil (mm)	ASTM D 5994									
Average		every roli	40	(	1.0	)	43	(	1.1	)
Minimum		every roll	. 36	(	0.9	) .	39	(	1.0	).
Tensile Properties:	ASTM D638, Type IV / D6693									
Break Strength, ppi (N/cm) - TE	)	every 3rd	100	(	175	)	138	(	241	) .
- M C		every 3rd	100	(	175	. )	173	(	302	)
Break Elongation, % - TD	gauge length = 2.0"	every 3rd		500				613		
- M D	(51 m m)	every 3rd		500				704		
Tear Resistance, lb. (N)	ASTM D 1004									
- TD		every 3rd	22	(	98	) .	35	(	155	)
- M D		every 3rd	22	(	98	)	31	(	138	. )
Puncture Resistance, lb. (N)	ASTM D 4833	•								
		every 3rd	48	(	211	)	90	(	400	)
Carbon Black Content, %	ASTM D 1603*						*			
		every 3rd		2.0				2.8		
Carbon Black Dispersion	ASTM D 5596			•						
Views in Cat1 - Cat2		every 3rd		9				10		
Density	ASTM D 1505									
		every 3rd		0.920	1			0.932		
Asperity Height	GRI GM 12									
Average (mils)		every 2nd	•	10				14		

Order No.

31311

Customer Name Project Name Location New England Liner Systems Former General Motors

Syracuse, NY

\*Modified



## Roll Test Data Report

GSE
Lining Technology, Inc.

Roll No. 104118794

				1011 1101	10/110//-		
ROLL	<i>IDENTIFICAT</i>	TION		RESIN INFORMATION			
Roll Number	104118794		Lot Number	CPG810170			
Product Name	LUT040A000		Type	7104			
Production Date	8/24/2003		Supplier Chevron				
Length ≈(+/- 1%)	700 213	feet meters	GSE RESIN TEST DATA				
Width (Nominal)	22.5	feet	<b>Property</b>	Test Method	Results		
	6.9	meters	Density, g/cc	ASTM D 1505	0.919		
Sheet Area	15,750 1,463	sq. feet sq. meters	Melt index, g/10 min.	ASTM D 1238 (190/2.16)	0.35		
Weight	3,730 1,692	pounds kilograms					
Physical P	roperty	Test Method	Test Frequency	Customer Minimum Test English Metric English	Results Metric		
hickness, mil (mm)		ASTM D 5994					

Division I Duran auto	Test	Test	Customer Minimum			n	Test	Resu	lts	
Physical Property	Method	Frequency	English Metric		:	English	Metric		2	
Thickness, mil (mm)	ASTM D 5994									
Average		every roll	40	(	1.0	)	42	(	1.1	)
Minimum		every roll	36	(	0.9	)	37	(	0.9	)
Tensile Properties:	ASTM D638, Type IV / D6693									
Break Strength, ppi (N/cm) - TD		every 3rd	100	(	175	)	138	(	241	)
- M D		every 3rd	100	(	175	·)	173	(	302	).
Break Elongation, % - TD	gauge length = 2.0"	every 3rd		500				613		. •
	(51 mm)	every 3rd		500				704	<del></del>	
Tear Resistance, lb. (N)	ASTM D 1004									
- TD		every 3rd	22	(	98	)	35	(	155	)
- M D		every 3rd	22	(	98	)	31	(	138	)
Puncture Resistance, lb. (N)	ASTM D 4833		•				-			
		every 3rd	48	(	211	)	90	(	400	)
Carbon Black Content, %	ASTM D 1603*	•								
	•	every 3rd		2.0				2.8		
Carbon Black Dispersion	ASTM D 5596									
Views in Cat1 - Cat2		every 3rd		9				10		
Density	ASTM D 1505									
		every 3rd		0.920				0.932		
Asperity Height	GRI GM 12		* •							
Average (mils)		every 2nd		10				19		

Order No.

31311

Customer Name Project Name Location New England Liner Systems Former General Motors

Syracuse, NY

\*Modified





ROLL	<i>IDENTIFICAT</i>	TION	RESIN INFORMATION						
Roll Number	<i>l Number</i> 104118795		Lot Number	CPG810170					
Product Name	LUT040A000		Type	7104					
Production Date	8/24/2003		Supplier	Chevron					
Length ≈(+/- 1%)	700 213	feet meters	GSE RESIN TEST DATA						
Width (Nominal)	22.5	feet	<b>Property</b>	Test Method	Results				
(	6.9	meters	Density, g/cc	ASTM D 1505	0.919				
Sheet Area	15,750 1,463	sq. feet sq. meters	Melt index, g/10 min.	ASTM D 1238 (190/2.16)	0.35				
Weight	3,745 1,699	pounds kilograms							

Direct and Direct and	Test	Test	Custome	r Min	imun	12	Tes	t Resu	lts	
Physical Property	Method	Frequency	English	I	Metric	?	English	1	Metric	<u>:</u>
Thickness, mil (mm)	ASTM D 5994			٠			_			
Average		every roll	40	(	1.0	)	42	(	1.1	)
Minimum		every roll	36	(	0.9	)	37	. (	0.9	)
Tensile Properties:	ASTM D638, Type IV / D6693									
Break Strength, ppi (N/cm) - TD		every 3rd	100	(	175	)	138	(	241	)
- M D		every 3rd	100	(	175	)	173	(	302	).
Break Elongation, % - TD	gauge length = 2.0"	every 3rd		500				613		
- M D	(51 mm)	every 3rd		500				704		
Tear Resistance, lb. (N)	ASTM D 1004									
- TD		every 3rd	22	(	98	)	35	(	155	)
- M D	•	every 3rd	. 22	(	98	)	31	(	138	)
Puncture Resistance, lb. (N)	ASTM D 4833									
•	·	every 3rd	48	(	211	)	90	(	400	)
Carbon Black Content, %	ASTM D 1603*									
		every 3rd		2.0	~			`2.8		
Carbon Black Dispersion	ASTM D 5596				•					
Views in Cat1 - Cat2		every 3rd		9	•	4		10.		
Density	ASTM D 1505							-		
		every 3rd		0.920				0.932		
Asperity Height	GRI GM 12	• •	•							
Average (mils)		every 2nd		10				19		

Order No.

31311

Customer Name Project Name New England Liner Systems

Location

Former General Motors

Syracuse, NY

\*Modified





									KOH 110.	104	1110/	90	
ROLL IDEN	TIFICAT	TION			RESIN IN	FO	RMAT	ION	V				_
Roll Number 1041	18796		Lot N	umber			CPG81	017	0 .				
Product Name LUTO	40A000	•	Type				7104	٠					
Production Date 8/25/	2003	·	Suppl	lier			Chevro	n					
Length ≈(+/- 1%)	700 213	feet meters	· · · · · · · · · · · · · · · · · · ·			GSE RESIN TEST DATA							_
Width (Nominal)	22.5 6.9	feet meters	<u>Property</u> Density, g/cc		-					<u>Resu</u> 0.91			
Sheet Area	15,750 1,463	sq. feet sq. meters	Melt	index, g/10 min.	AST	TM I	D 1238	(1	90/2.16)		0.35		
Weight	3,745 1,699	pounds kilograms		•									
Physical Propert	y	Test Method		Test Frequency	Customei English		nimun Metric		Test English		sults Metr	ic	
Thickness, mil (mm)		ASTM D 5994							-				_
Average				every roll	40	(	1.0	)	42	1	( 1.1		)
Minimum				every roll	36	(	0.9	)	37	(	( 0.9	•	)
ensile Properties:		ASTM D638,Type IV / I	D6693										
Break Strength, ppi (N	/cm) - TD			every 3rd	100	. (	175	)	138	1	( 24	1	)
	- M D			every 3rd	100	(	175	)	173	. 7	( 302	2	)
Break Elongation, % -	TD	gauge length = 2.0	0"	every 3rd		500				613	i	•	
N	ИD	(51 m n	n)	every 3rd		500				704	·		
Fear Resistance, lb. (N)		ASTM D 1004											
1	D	•		every 3rd	22	(	98	)	35		( 15	5	)
_ t	ИD			every 3rd	22	(	98	)	31		( 13	8	)
Puncture Resistance, lb. (N	)	ASTM D 4833		•									
	•			every 3rd	48	(	211	)	90		( 40	0	)

every 3rd

every 3rd

every 3rd

every 2nd

0.920

10

ASTM D 1603\*

**ASTM D 5596** 

**ASTM D 1505** 

GRI GM 12

Order No.

31311

Customer Name Project Name

Carbon Black Content, %

Carbon Black Dispersion

Average (mils)

Density

Asperity Height

Views in Cat1 - Cat2

New England Liner Systems Former General Motors

Location

Syracuse, NY

\*Modified

GSE-8.2.4-007 Rev - - 02/03



2.8

10

0.933

24



ROLL	IDENTIFICAT	TION	RE	RESIN INFORMATION							
Roll Number	104118797		Lot Number	CPG810170							
Product Name	LUT040A000		Туре	7104							
Production Date 8/25/2003		Supplier	Chevron								
<i>ength</i> ≈(+/- 1%) 700 feet 213 meters		GS	GSE RESIN TEST DATA								
Width (Nominal)	22.5	feet	Property	Test Method	Results						
(Montinut)	6.9	meters	Density, g/cc	ASTM D 1505	0.919						
Sheet Area	15,750 1,463	sq. feet sq. meters	Melt index, g/10 min.	ASTM D 1238 (190/2.16)	0.35						
Weight	3,750 1,701	pounds kilograms	·								

	Test	Test	Custome	r Mir	imun		Tes	Test Results		
Physical Property	Method	Frequency	English	1	Metric	:	English	1	Metric	
Thickness, mil (mm)	ASTM D 5994							ζ		_
Average		every roll	40	(	1.0	)	42	(	1.1	)
Minimum		every roll	36	(	0.9	) .	37	(	0.9	)
Tensile Properties:	ASTM D638, Type IV / D6693									
Break Strength, ppi (N/cm) - TD		every 3rd	100	(	175	)	138	(	241	)
- M D		every 3rd	100	(	175	)	173	(	302	)
Break Elongation, % - TD	gauge length = 2.0"	every 3rd		500				613		
- M D	(51 mm)	every 3rd		500				704		
ear Resistance, lb. (N)	ASTM D 1004		•							
- TD		every 3rd	22	(	98	)	35	(	155	)
- <b>M</b> D		every 3rd	22	(	98	)	31	(	138	)
Puncture Resistance, lb. (N)	ASTM D 4833						•			
		every 3rd	48	(	211	)	90	(	400	)
Carbon Black Content, %	ASTM D 1603*									
		every 3rd		2.0				2.8		
Carbon Black Dispersion	ASTM D 5596						• .			
Views in Cat1 - Cat2		every 3rd		9				10		
Density	ASTM D 1505									
		every 3rd		0.920				0.933		٠.
Asperity Height	GRI GM 12							0.4		
Average (mils)		every 2nd	•	10				24		

Order No.

31311

Syracuse, NY

Customer Name Project Name New England Liner Systems Former General Motors

Location

\*Modified GSE-8.2.4-007 Rev - - 02/03





Roll No. 101108936

ROLL	IDENTIFICAT	TION	RE	SIN INFORMATION			
Roll Number	101108936		Lot Number	CPG810040			
Product Name	LLD040A000		Type	7104			
Production Date	7/29/2003		Supplier	Chevron			
Length <b>≈</b> (+/- 1%)	870 265	feet meters	GSE RESIN TEST DATA				
Width (Nominal)	22.5 6.9	feet meters	Property Density, g/cc	<u>Test Method</u> ASTM D 1505	<i>Results</i> 0.919		
Sheet Area	19,575 1,818	sq. feet sq. meters	Melt index, g/10 min.	ASTM D 1238 (190/2.16)	0.36		
Weight	3,900 1,769	pounds kilograms					

	Test	Test	Custom	er Mir	nimun	1	Tes	t Resu	lts	
Physical Property	Method	Frequency	English		Metric	•	English	: <i>1</i>	Metric	:
Thickness, mil (mm)	ASTM D 5199									
Average		every roll	40	(	1.0	)	41	(	1.0	_)
Minimum	•	every roll	36	(	0.9	)	39	(	1.0	)
Tensile Properties:	ASTM D638, Type IV / D6693									
Break Strength, ppi (N/cm) - Tl	D .	every 2nd		152				238		
- M	D	every 2nd		152				246		
Break Elongation, % - TD	gauge length = 2.0"	every 2nd		850				1048		
- M D	(51 mm)	every 2nd		850				1056		
Tear Resistance, lb. (N)	ASTM D 1004									
- TD		every 2nd	22	(	98	)	26	(	117	)
- M D		every 2nd	22	(	98	)	28	(	126	, )
Puncture Resistance, lb. (N)	ASTM D 4833									
		every 2nd	62	(	274	)	91	(	403	)
Density, g/cc	ASTM D 1505									
		every 2nd		0.920				0.930		
Carbon Black Content, %	ASTM D 1603*									
		every 2nd		2.0				2.3		
Carbon Black Dispersion	ASTM D 5596									
Views in Cat1 - Cat2		every 2nd		9				10		

Order No.

31311

Customer Name Project Name Former General Motors New England Liner Systems

Location

Syracuse, NY

\*Modified





Roll No. 101108938

ROLL	<i>IDENTIFICAT</i>	TION	RESIN INFORMATION							
Roll Number	101108938		Lot Number	CPG810040						
Product Name	LLD040A000		Type	7104						
Production Date	7/29/2003		Supplier	Chevron						
Length ≈(+/- 1%)	870 265	feet meters	GSA	E RESIN TEST DATA						
Width (Nominal)	22.5	feet	<b>Property</b>	Test Method	Results					
(1.tonanas)	6.9	meters	Density, g/cc	ASTM D 1505	0.919					
Sheet Area	19,575 1,818	sq. feet sq. meters	Melt index, g/10 min.	ASTM D 1238 (190/2.16)	0.36					
Weight	3,930 1,783	pounds kilograms								

Dhusiaal Dranarts	Test	Test	Custom	er Mi	nimun	n	Tes	t Resu	lts	
Physical Property	Method	Frequency	Englis	h .	Metric	;	English	: 1	Metric	<u>;                                    </u>
Thickness, mil (mm)	ASTM D 5199									
Average		every roll	40	(	1.0	)	41	(	1.0	)
Minimum		every roll	36	. (	0.9	)	39	(	1.0	)
Tensile Properties:	ASTM D638, Type IV / D6693									
Break Strength, ppi (N/cm) - T	D	every 2nd		152				252		
- M	D	every 2nd		152			•	260		
Break Elongation, % - TD	gauge length = 2.0"	every 2nd		850				1074		
- M D	(51 mm)	every 2nd		850				1059		
Tear Resistance, lb. (N)	ASTM D 1004									
- TD		every 2nd	22	(	98	)	30	(	134	)
- M D		every 2nd	22	(	98	)	32	(	142	)
Puncture Resistance, lb. (N)	ASTM D 4833									
		every 2nd	62	(	274	)	93	(	412	)
Density, g/cc	ASTM D 1505									
		every 2nd		0.920	) .			0.928		
Carbon Black Content, %	ASTM D 1603*									
		every 2nd		2.0				2.4		
Carbon Black Dispersion	ASTM D 5596									
Views in Cat1 - Cat2		every 2nd		9				10		

Order No.

31311

Customer Name

Former General Motors

Project Name Location

New England Liner Systems

Syracuse, NY

\*Modified

7/29/2003



Roll No. 101108940

ROLL	IDENTIFICAT	TION	RESIN INFORMATION							
Roll Number	101108940		Lot Number	CPG810040	<del></del>					
Product Name	LLD040A000		Type	7104						
Production Date	7/29/2003		Supplier	Supplier Chevron						
Length ≈(+/- 1%)	870 265	feet meters	GSE RESIN TEST DATA							
Width (Nominal)	22.5 6.9	feet meters	<u>Property</u> Density, g/cc	<u>Test Method</u> ASTM D 1505	<i>Results</i> 0.919					
Sheet Area	19,575 1,818	sq. feet sq. meters	Melt index, g/10 min.	ASTM D 1238 (190/2.16)	0.36					
Weight	3,920 1,778	pounds kilograms								

Dhysiaal Droparty	Test	Test	Custon	er Mi	nimur	n	Tes	t Resu	ilts	
Physical Property	Method	Frequency	Englis	English Me		c	English	1	Metric	;
Thickness, mil (mm)	ASTM D 5199								-	
Average		every roll	40	(	1.0	)	41	(	1.1	)
Minimum		every roll	36	, (	0.9	)	38	(	1.0	)
Tensile Properties:	ASTM D638, Type IV / D6693									
Break Strength, ppi (N/cm) - TD	)	every 2nd		152				231		
- M [	D	every 2nd		152				263		
Break Elongation, % - TD	gauge length = 2.0"	every 2nd	•	850				1095		
- M D	(51 mm)	every 2nd		850				1100		
Tear Resistance, lb. (N)	ASTM D 1004									
- TD		every 2nd	22	(	98	)	28	(	123	)
- M D		every 2nd	22	• (	98	)	29 <sup>-</sup>	(	128	)
Puncture Resistance, lb. (N)	ASTM D 4833									
		every 2nd	62	(	274	)	90	(	402	)
Density, g/cc	ASTM D 1505									
		every 2nd		0.920				0.931		
Carbon Black Content, %	ASTM D 1603*									
	•	every 2nd		2.0				2.2		
Carbon Black Dispersion	ASTM D 5596									
Views in Cat1 - Cat2		every 2nd		9				10		

Order No.

31311

Customer Name Project Name Former General Motors New England Liner Systems

Location

Syracuse, NY

\*Modified





ROLL	IDENTIFICAT	TION	RESIN INFORMATION						
Roll Number	101108966		Lot Number	CPG810070					
Product Name	LLD040A000		Type	7104					
Production Date	8/1/2003		Supplier Chevron						
Length ≈(+/- 1%)	870 265	feet meters	GSE RESIN TEST DATA						
Width (Nominal)	22.5	feet	<b>Property</b>	Test Method	Results				
,	6.9	meters	Density, g/cc	ASTM D 1505	0.919				
Sheet Area	19,575 1,818	sq. feet sq. meters	Melt index, g/10 min.	ASTM D 1238 (190/2.16)	0.36				
Weight	3,915 1,776	pounds kilograms							

Physical Property	Test Method	Test Frequency	Custom Englisi		nimun Metric		Test English	Resu	its Metric	
Thickness, mil (mm)	ASTM D 5199		23.15.10.1		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2. gust		73 617 16	
Average	No IIII B 0 100	every roll	40	(	1.0	)	41	(	1.0	)
Minimum		every roll	36	(	0.9	)	40	(	1.0	)
Tensile Properties:	ASTM D638, Type IV / D6693									
Break Strength, ppi (N/cm) - T	D	every 2nd		152				232		
- M	D	every 2nd		152				244		
Break Elongation, % - TD	gauge length = 2.0"	every 2nd		850				1077		
- M D	(51 mm)	every 2nd		850				1045		
Tear Resistance, lb. (N)	ASTM D 1004									,
- TD		every 2nd	22	. (	98	)	27	(	119	)
- M D		every 2nd	22	(	. 98	)	28	. (	126	)
Puncture Resistance, lb. (N)	ASTM D 4833									
		every 2nd	62	(	274	)	92	(	408	)
Density, g/cc	ASTM D 1505									
		every 2nd		0.920	÷			0.931		
Carbon Black Content, %	ASTM D 1603*									
		every 2nd		2.0				2.4		
Carbon Black Dispersion	ASTM D 5596									
Views in Cat1 - Cat2		every 2nd		9				10		

Order No.

31311

Customer Name Project Name Former General Motors New England Liner Systems

Location

Syracuse, NY

\*Modified





Roll No. 101109038

ROLL	IDENTIFICAT	TION	RE	SIN INFORMATION	
Roll Number	101109038		Lot Number	CPG810090	
Product Name	LLD040A000		Type	7104	
Production Date	8/8/2003		Supplier	Chevron	
Length ≈(+/- 1%)	870 265	feet meters	GSA	E RESIN TEST DATA	
Width (Nominal)	22.5 6.9	feet meters	<u>Property</u> Density, g/cc	<u>Test Method</u> ASTM D 1505	<i>Results</i> 0.918
Sheet Area	19,575 1,818	sq. feet sq. meters	Melt index, g/10 min.	ASTM D 1238 (190/2.16)	0.36
Weight	3,905 1,771	pounds kilograms			

Physical Property	Test Method	Test	Custom					Resu		
	Method	Frequency	Englisi	1	Metric		English	1	Metric	-
Thickness, mil (mm) Average	ASTM D 5199	every roll	40	•	1.0	)	41	,	1.0	1
· ·		·	36	,		•	38	(	1.0	,
Minimum		every roll	36	,(	0.9	)	30	(	1.0	,
Tensile Properties:	ASTM D638,Type IV / D6693									
Break Strength, ppi (N/cm) - TD		every 2nd		152				235		
- M D		every 2nd		152				230		
Break Elongation, % - TD	gauge length = 2.0"	every 2nd		850				1088		
- M D	(51 m m)	every 2nd		850				1027		
ear Resistance, lb. (N)	ASTM D 1004									
- TD		every 2nd	22	(	98	)	28	(	126	)
- M D		every 2nd	22	(	98	)	29	(	128	)
Puncture Resistance, lb. (N)	ASTM D 4833									
		every 2nd	62	(	274	)	89	(	394	)
Density, g/cc	ASTM D 1505									
		every 2nd		0.920				0.926		
Carbon Black Content, %	ASTM D 1603*									
		every 2nd	•	2.0				2.2		
Carbon Black Dispersion	ASTM D 5596									
Views in Cat1 - Cat2		every 2nd		9				10		

Order No. Customer Name 31311

Project Name

Former General Motors

New England Liner Systems

Location Syracuse, NY

\*Modified







Roll No. 101109039

<u>Lining</u>	z Technology, I	nc.						Roll No.	1011	1090:	39
ROLL	IDENTIFICAT	TION	1	RESIN II	VF01	RMAT	ΊΟΝ	7			_
Roll Number	101109039		Lot Number			CPG8	10090	0	<del></del>	* * * * * * * * * * * * * * * * * * * *	_
Product Name	LLD040A000		Type			7104					
Production Date	8/8/2003		Supplier			Chevro	on				
Length ≈(+/- 1%)	870 265	feet meters		SSE RES	IN T	EST L	)AT.	4			
Width (Nominal)	22.5 6.9	feet meters	<u>Property</u> Density, g/cc			<u>stm</u>		<del>-</del> .		<i>esults</i> 0.918	
Sheet Area	19,575 1,818	sq. feet sq. meters	Melt index, g/10 min.	AS				90/2.16)		0.36	
Weight	3,900 1,769	pounds kilograms									
Physical P	roperty	Test Method	Test Frequency	Custome English		nimur Metric		Test English	Resu	its Metri	c
Thickness, mil (mm)		ASTM D 5199									
Average			every roll	40	(	1.0	)	41	(	1.0	)
Minimum			every roll	36	,(	0.9	)	38	(	1.0	)
Tensile Properties:		ASTM D638, Type IV / D	06693								
Break Strength,	, ppi (N/cm) - TD		every 2nd		152				184		
	- M D		every 2nd		152				171		
Break Elongation	on, % - TD	gauge length = 2.0	every 2nd		850				872		
	- M D	(51 mm	every 2nd		850				895		
ear Resistance, lb. (	N)	ASTM D 1004									
	- TD		every 2nd	22	(	98	)	26	(	116	)

every 2nd

every 2nd

every 2nd

every 2nd

every 2nd

**ASTM D 4833** 

**ASTM D 1505** 

ASTM D 1603\*

**ASTM D 5596** 

22

0.920

2.0

274 )

Order No.

31311

- M D

Puncture Resistance, lb. (N)

Carbon Black Content, %

Carbon Black Dispersion

Views in Cat1 - Cat2

Density, g/cc

Customer Name Project Name Former General Motors New England Liner Systems

Location Syracuse, NY

\*Modified

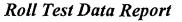
GSE-8.2.4-007 Rev - - 02/03



0.929

2.3

10



Roll No. 101109042

ROLL	IDENTIFICAT	TION	RESIN INFORMATION						
Roll Number	101109042		Lot Number	CPG810090					
Product Name	LLD040A000		Type	7104					
Production Date	8/8/2003		Supplier	Chevron					
Length ≈(+/- 1%)	870 265	feet meters	GSA	E RESIN TEST DATA					
Width (Nominal)	22.5 6.9	feet meters	<u>Property</u> Density, g/cc	<u>Test Method</u> ASTM D 1505	<i>Results</i> 0.918				
Sheet Area	19,575 1,818	sq. feet sq. meters	Melt index, g/10 min.	ASTM D 1238 (190/2.16)	0.36				
Weight	3,890 1,765	pounds kilograms							

Dhysical Droporty	Test	Test	Custom	er Mi	nimur	n	Tes	t Resu	lts	
Physical Property	Method	Frequency	Englisi	English Met		ric Engli.		! ]	Metric	<u>:</u>
Thickness, mil (mm)	ASTM D 5199	-								_
Average		every roll	.40	(	1.0	)	41	(	1.0	)
Minimum		every roll	36	(	0.9	)	38	(	1.0	)
Tensile Properties:	ASTM D638, Type IV / D6693						•	•		
Break Strength, ppi (N/cm) - Tt	<b>O</b>	every 2nd		152				175		•
- M	D	every 2nd		152				187		
Break Elongation, % - TD	gauge length = 2.0*	every 2nd		850				870		
- M D	(51 mm)	every 2nd		850			-	882		
Tear Resistance, lb. (N)	ASTM D 1004									
-TD		every 2nd	22	(	98	)	27	(	119	)
- <b>M</b> D		every 2nd	22	(	98	)	27	(	120	)
Puncture Resistance, lb. (N)	ASTM D 4833									
		every 2nd	62	(	274	)	85	(	377	, )
Density, g/cc	ASTM D 1505									
		every 2nd		0.920	ı			0.929		
Carbon Black Content, %	ASTM D 1603*									
		every 2nd	•	2.0				2.3		
Carbon Black Dispersion	ASTM D 5596									
Views in Cat1 - Cat2		every 2nd		9				10		

Order No.

31311

Customer Name Project Name Former General Motors New England Liner Systems

Location

Syracuse, NY

\*Modified



#### Roll Test Data Report

Roll No. 101109044

KULL	IDENTIFICAT	TION		RESIN IN	VFOR	MAT	ION	<i></i>			
Roll Number	101109044		Lot Number		(	CPG81	0090	)			
Product Name	LLD040A000		Туре		7	7104					
Production Date	8/8/2003		Supplier		(	Chevro	n				
Length ≈(+/- 1%)	870 265	feet meters		GSE RES	IN TE	EST D	A TA	1			
Width (Nominal)	205	feet —	Property	-	T	est M	etho	d	R	esults	
(Ivominai)	6.9	meters	Density, g/cc			TM L				0.918	•
Sheet Area	19,575 1,818	sq. feet sq. meters	Melt index, g/10 min.	AS	TM D	1238	(19	90/2.16)		0.36	
Weight	3,890 1,765	pounds kilograms									
Physical P	roperty	Test Method	Test Frequency	Custome English		imun Metric		Tesi English	Resu	lts Metric	
Thickness, mil (mm)		ASTM D 5199						8			_
Average		7.0,1 m 2 0 100	every roll	. 40	(	1.0	)	41	(	1.0	)
Minimum			every roll	36		0.9	)	38	(	1.0	)
Tensile Properties:		ASTM D638,Type IV / D6	6693								
Break Strength,	, ppi (N/cm) - TD		every 2nd		152				175		
	- M D		every 2nd		152				187		
Break Elongation	on, % - TD	gauge length = 2.0"	every 2nd		850				870		
	- M D	(51 mm)	every 2nd		850				882		
ear Resistance, lb. (	(N)	ASTM D 1004									
	- TD		every 2nd	22	(	98	)	27	(	119	)
	- M D		every 2nd	22	` (	98	)	27	(	120	)
Puncture Resistance	, lb. (N)	ASTM D 4833									
			every 2nd	62	(	274	)	85	(	377	)
Density, g/cc		ASTM D 1505	every 2nd		0.920				0.929		
Carbon Black Conter	nt, %	ASTM D 1603*									
			every 2nd		2.0				2.3		
Carbon Black Disper	sion	ASTM D 5596									
Views in Cat1 -			every 2nd		9				10		

Order No.

31311

Customer Name Project Name Former General Motors New England Liner Systems

Location

Syracuse, NY

\*Modified GSE-8.2.4-007 Rev - - 02/03



#### Roll Test Data Report

GSE

Lining Technology, Inc.

Roll No. 101109048

ROLL	IDENTIFICAT	TION	RESIN INFORMATION						
Roll Number	101109048		Lot Number	CPG810090					
Product Name	LLD040A000		Type	7104					
Production Date	8/8/2003		Supplier	Chevron					
Length ≈(+/- 1%)	870 265	feet meters	GS	E RESIN TEST DATA					
Width (Nominal)	22.5 6.9	feet meters	<u>Property</u> Density, g/cc	<u>Test Method</u> ASTM D 1505	<i>Results</i> 0.918				
Sheet Area	19,575 1,818	sq. feet sq. meters	Melt index, g/10 min.	ASTM D 1238 (190/2.16)	0.36				
Weight	3,885 1,762	pounds kilograms							

	Test	Test	Custom	er Mii	nimun	n	Tes	t Resu	lts	
Physical Property	Method	Frequency	English	English Metric		English English		. 1	<i>Metric</i>	
Thickness, mil (mm)	ASTM D 5199			-						
Average		every roll	40	(	1.0	)	41	(	1.1	)
Minimum		every roll	36	(	0.9	)	39	(	1.0	)
Tensile Properties:	ASTM D638, Type IV / D6693									
Break Strength, ppi (N/cm) - TD	) · · ·	every 2nd		152				234		
- M [		every 2nd	·	152				242		
Break Elongation, % - TD	gauge length = 2.0"	every 2nd		850				1065		
- M D	(51 mm)	every 2nd		850				1048		
Tear Resistance, lb. (N)	ASTM D 1004									
- TD		every 2nd	22	(	98	)	27	(	121	)
- M D		every 2nd	22	(	98	)	28	(	125	)
Puncture Resistance, lb. (N)	ASTM D 4833									
		every 2nd	62	(	274	)	91	(	405	)
Density, g/cc	ASTM D 1505									
• •		every 2nd		0.920	)	•		0.929		
Carbon Black Content, %	ASTM D 1603*									
		every 2nd		2.0				2.3		
Carbon Black Dispersion	ASTM D 5596									
Views in Cat1 - Cat2		every 2nd		9				10		

Order No.

31311

Customer Name

Former General Motors New England Liner Systems

Project Name Location

Syracuse, NY

\*Modified





Roll No. 101109051

ROLL	IDENTIFICAT	TION	RE	SIN INFORMATION	
Roll Number	101109051		Lot Number	CPG810090	
Product Name	LLD040A000		Type	7104	
Production Date	8/9/2003		Supplier	Chevron	
Length ≈(+/-1%)	870 265	feet meters	GSA	E RESIN TEST DATA	
Width (Nominal)	22.5	feet	<b>Property</b>	Test Method	Results
(1101111111)	6.9	meters	Density, g/cc	ASTM D 1505	0.918
Sheet Area	19,575 1,818	sq. feet sq. meters	Melt index, g/10 min.	ASTM D 1238 (190/2.16)	0.36
Weight	3,880 1,760	pounds kilograms			

	Test	Test	Custom	er Min	imun	1	Test	Resu	lts	
Physical Property	Method	Frequency	English Metric				English	Ī	Metric	
Thickness, mil (mm)	ASTM D 5199	ASTM D 5199								
Average		every roll	40	(	1.0	)	41	(	1.0	)
Minimum		every roll	36	(	0.9	)	38	(	1.0	)
Tensile Properties:	ASTM D638, Type IV / D6693									
Break Strength, ppi (N/cm) - TD		every 2nd		152				245		
- M D		every 2nd		152				241		
Break Elongation, % - TD	gauge length = 2.0"	every 2nd		850				1073		
- M D	(51 m m)	every 2nd		850				1016		
ear Resistance, lb. (N)	ASTM D 1004									
- TD		every 2nd	22	(	98	)	28	(	126	)
- M D	· ·	every 2nd	22	(	98	)	28	(	124	)
Puncture Resistance, lb. (N)	ASTM D 4833									
		every 2nd	62	(	274	)	96	(	429	)
Density, g/cc	ASTM D 1505									
		every 2nd		0.920				0.930		
Carbon Black Content, %	ASTM D 1603*									
		every 2nd		2.0				2.4		
Carbon Black Dispersion	ASTM D 5596	-								
Views in Cat1 - Cat2		every 2nd		9				10		

Order No.

31311

Customer Name

Former General Motors

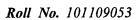
Project Name Location

New England Liner Systems

Syracuse, NY

\*Modified





Lining	Technology,	Inc.

Lining	Techr	ology,	Inc.

ROLL	IDENTIFICAT	TION	RE	SIN INFORMATION	
Roll Number	101109053		Lot Number	CPG810090	
Product Name	LLD040A000		Type	7104	
Production Date	8/9/2003		Supplier	Chevron	
Length <b>≈</b> (+/- 1%)	870 265	feet meters	GS	E RESIN TEST DATA	
Width (Nominal)	22.5 6.9	feet meters	<u>Property</u> Density, g/cc	<u>Test Method</u> ASTM D 1505	<i>Results</i> 0.918
Sheet Area	19,575 1,818	sq. feet sq. meters	Melt index, g/10 min.	ASTM D 1238 (190/2.16)	0.36
Weight	3,870 1,755	pounds kilograms			

·	Test	Test	Custom	er Mir	imun	1	Test	Test Results					
Physical Property	Method	Frequency	Englisi	lı 1	Metric	!	English	7	Metric				
Thickness, mil (mm)	ASTM D 5199												
Average	-	every roll	40	(	1.0	)	40	(	1.0	)			
Minimum		every roll	36	, (	0.9	)	39	(	1.0	)			
Tensile Properties:	ASTM D638, Type IV / D6693												
Break Strength, ppi (N/cm) - TD		every 2nd		152				192					
- M D		every 2nd		152				221					
Break Elongation, % - TD	gauge length = 2.0"	every 2nd		850				1036					
- M D	(51 mm)	every 2nd		850				1037		•			
Tear Resistance, lb. (N)	ASTM D 1004							-					
- TD		every 2nd	22	(	98	)	27	(	120	)			
- M D		every 2nd	22	(	98	)	27	(	122	)			
Puncture Resistance, lb. (N)	ASTM D 4833												
	·	every 2nd	62	(	274	)	91	(	405	)			
Density, g/cc	ASTM D 1505												
		every 2nd		0.920				0.930					
Carbon Black Content, %	ASTM D 1603*												
		every 2nd		2.0				2.3					
Carbon Black Dispersion	ASTM D 5596		•										
Views in Cat1 - Cat2		every 2nd		9				10					

Order No.

31311

Customer Name Project Name

Former General Motors New England Liner Systems

Location

Syracuse, NY

\*Modified





## Shipping Order - Packing List - Original - Not Negotiable

GSE Lining Technology, Inc. at HOUSTON, TEXAS

Shippers No.

35329

Received at Houston, Texas from GSE Lining Technology, Inc. the property described below, in apparent good order, except as noted (contents and condition of packages unknown), marked, consigned, and destination and as indicated below, which said Carrier agrees to carry to the place of delivery at said destination. It is mutually agreed as to each Carrier of all or any said property, over all or any portion route to destination, and as to each party at any time interested in all or any of said property, that every service performed hereunder shall be subject to the rates and contract agreed to in by GSE Lining Technology and Carrier. GSE Lining Technology's obligation to pay freight charges for the shipment is conditioned on (1) the existence of a separate written contract with the carrier transporting the freight and (2) the carrier's name appearing on this Bill of Lading, and other carriers must look solely to a party other than GSE Lining technology, Inc. for payment.

Ship To: Former General Motors Fischer Guide

C/o New England/Royal Envrionmental

One General Motors Drive Syracuse NY 13206

Roll Certifications included

Date: 08/25/03

Branch Plant: 1500

.621811

Shipping Instructions:

Call David Woodruff@315-463-

2310 24hrs before delivery

Sales Order

31311 SO

No. Line	Roll#	QTY Shipped	UM		f Package, Description of Articles, pecial Marks, and Exceptions	Weight .	B-cioc+# 512570
1 ,	104118791	15750	SF	LUT040A000	40 mil Avg UltraFlex Textured	3,750.0	Project# 513579 Freight charges are
2	104118792	15750	SF	LUT040A000	Blk, VF, 2 Side Tex, 22.5' 40 mil Avg UltraFlex Textured Blk, VF, 2 Side Tex, 22.5'	3,755.0	prepaid unless marked
3	104118793	15750	SF	LUT040A000	40 mil Avg UltraFlex Textured Blk, VF, 2 Side Tex, 22.5	3,735.0	
4	104118794	15750	SF	LUT040A000	40 mil Avg UltraFlex Textured	3,730.0	Customer P.O. #:
5	104118795	15750	SF	LUT040A000	Blk, VF, 2 Side Tex, 22.5' 40 mil Avg UltraFlex Textured		GMS-080503
					Blk, VF, 2 Side Tex, 22.5'	3,745.0	If this shipment is to be delivered to consignor,
6	104118796	15750	SF	LUT040A000	40 mil Avg UltraFlex Textured Blk, VF, 2 Side Tex, 22.5'	3,745.0	consignor shall sign the following statement. Carrier may decline to
7	104118797	15750	SF	LUT040A000	40 mil Avg UltraFlex Textured	3,750.0	deliver this shipment
				4.	Blk, VF, 2 Side Tex, 22.5'		without payment of freight and all other law charges.
·							
							:
							Signature of Consignor
		* 4					Local Verification
					•		Signed:
		-					<u>x</u>
						<u> </u>	Pick Up #
	:						1949RR
				*.			Seal #
							Truckers P.O. #

#### **Priver Requirements:**

GSE 7.5.5-007

- 1) Driver must pre call 24 hrs prior to delivery and on Friday for Monday delivery.
- 2) Driver must call (281) 230-6781 when unloaded. 3) Driver must call and advise any delay in transit.
- 4) A copy of this B/L must accompany Freight Invoice.

CARRIER	NAME: _		 
CARRIER	SIGNATI	URE:	

DATE:

Geomembrane CQC – Friction testing



#### PROJECT SUBMITTAL

**Project Name:** 

Former Landfill IRM

Submittal No.:

026

Subject:

Former Landfill IRM - Submittal for Specification Section

02293

Project No.:

60709-5

Date:

December 27, 2004

Attached you will find the Geotechnical Test Report (laboratory interface shear test series results) for the following landfill cap components:

- Barrier Protection Layer
- Mirafi S-1200
- Typar SF-65
- LLDPE (textured)

# CCOTOSCING

1145 Massachusetts Avenue Boxborough, MA 01719 978 635 0424 Tel 978 635 0266 Fax

#### **REVIEWED AND NOTED REVIEWED SOLELY FOR GENERAL** COMPLIANCE WITH CONTRACT **DOCUMENTS** O'BRIEN & GERE ENGINEERS, INC.

Tra	nsm	ittal

Trans	mitta						
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TO:	÷		•				
Mr. Paul Mi	cciche	<b>.</b> .			DATE: 12/21/04		GTX NO: 5666
Royal Envir	onmental				RE: Former Lan	dfill IRM; (	
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		:	<del></del>	<u>:</u>			
<del> </del>		<del></del>					·
COPIES	DATE	T	<u></u>		DESCRIPTION		
	12/21/04	Decen	ber 2004 I	aborator	y Test Reports	<del></del>	
	<del> </del>				r Test Series (ASTM I	D 5321)	
EMARKS:							
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		<u>.</u>					
		· . ·		SIGNED:		<i>[</i> ]	•
<b>D:</b>					Joe Tomei – Labora	tory Manag	ger
			APPRO	VED BY:	100	<u> </u>	
•			٠.		Fred Hooper - Labor	atory Man	ager



1145 Massachusetts Avenue Boxborough, MA 01719 978 635 0424 Tel 978 635 0266 Fax

#### **REVIEWED AND NOTED**

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 1/18/05 By NMK

# **Geotechnical Test Report**

December 21, 2004

Former
Landfill IRM
GMC
Project

Prepared for:

**Royal Environmental** 

#### Coolesting GRECOSS

#### REVIEWED AND NOTED REVIEWED SOLELY BY ASTNETA 5321 Interface Shear T

#### **DOCUMENTS**

Client:

**Project Name:** 

**Project Location:** 

GTX #:

Royal Environmental Former Landfill IRM; GMPate 11805

1 General Motors Drive

5666

O'BRIEN & GERE ENGINEERS IN Oate:

**End Date:** 

12/13/04 12/14/04

Tested By: RMT/BDF

Checked By: JDT

**Test Profile / Setup** 

Top to bottom:

Soil ID/Description:

Soil Preparation:

Series #1; steel plate / SOIL / GEOCOMPOSITE / textured steel plate

Barrier Protection Layer: Moist, brown sand with silt and gravel.

Compacted to 95% of Maximum Dry Density at the Optimum Moisture Content (values

provided by client).

**Compaction Characteristics** 

**ASTM D 698:** 

Maximum Dry Density, pcf 133.9

Optimum Moisture Content, %

6.8

**Geosynthetic Description /** 

Preparation:

Geocomposite: Gray, double non-woven geotextile. Tri-planar geocomposite.

Test inundated under normal load for 30 minutes prior to shear.

**Test Equipment:** 

Top box = 12 in x 12 in; Bottom box = 16 in x 12 in; Load cells and LVDTs connected to data acquisition system for shear force, normal load and horizontal displacement

readings; Flat plate clamping device; surface area = 144 in<sup>2</sup>

**Test Condition:** 

inundated

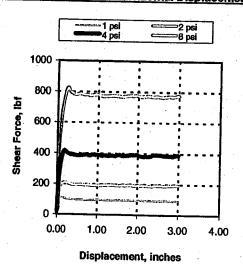
Horizontal Displacement, in/min: 0.039

Parameter	Point 1	Point 2	Point 3	Point 4	Point 5
Initial Moisture Content, %	7	7	7	7	1 Carte
Initial Dry Density, pcf	127	127	127		
Percent Compaction, %	94.8	94.8	94.8	127	
Normal Compressive Stress, psi	1,0	2.0	4.0	94.8	
Peak Shear Stress, psi	0.8	1.4	2.9	8.0	
Post Peak Shear Stress, psi	0.6	1.3	2.7	5.7	
Final Moisture Content, %	17	18	18	5.4	

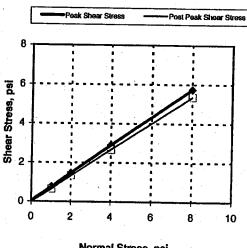
NOTE:

**Peak Friction Angle:** 35 degrees **Peak Cohesion:** 0 psi **Post Peak Friction Angle:** 34 degrees Post Peak Cohesion: 0

#### Figure a. Shear Force vs. Horizontal Displacement



#### Figure b. Shear Stress vs. Normal Stress



Normal Stress, psi

Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the Indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Form D5321REP, version 2

#### Collecting OXDIGSS

# Interface Shear TES Series thy waster D 5321

Series #2; steel plate / GEOMEMBRANE / GEOCOMPOSITE / textured steel plate

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT

O'BRIEN & GERE ENGINEERS! Nete:

DOCUMENTS Start Date:

//Mk Tested By:

Optimum Moisture Content, %

Client:

**Project Name:** 

**Project Location:** GTX #:

Test Profile / Setup Top to bottom:

Soil ID/Description: Soil Preparation:

**Compaction Characteristics ASTM D 698:** 

Geosynthetic Description / Preparation:

Top box = 12 in x 12 in; Bottom box = 16 in x 12 in; Load cells and LVDTs connected to

data acquisition system for shear force, normal load and horizontal displacement readings; Flat plate clamping device; surface area = 144 in<sup>2</sup>

inundated

Maximum Dry Density, pcf

Geomembrane: 40 mil Textured LLDPE.

Royal Environmental

Former Landfill IRM; GMC

1 General Motors Drive Date

Geocomposite: Gray, double non-woven geotextile. Tri-planar geocomposite.

Test inundated under normal load for 15 minutes prior to shear.

**Test Condition:** 

**Test Equipment:** 

Horizontal Displacement, in/min: 0.039

Parameter	Point 1	Point 2	Point 3	Point 4	Point 5
Initial Moisture Content, %			T		
Initial Dry Density, pcf					
Percent Compaction, %					
Normal Compressive Stress, psi	1.0	2.0	4.0	8.0	
Peak Shear Stress, psi	0.8	1.4	2.4	4.4	
Post Peak Shear Stress, psi	0.6	0.9	17	3.0	
Final Moisture Content, %				3.0	

NOTE:

**Peak Friction Angle: Peak Cohesion:** 

**Post Peak Friction Angle: Post Peak Cohesion:** 

27 0.3

19

0.2

degrees psi degrees

12/14/04

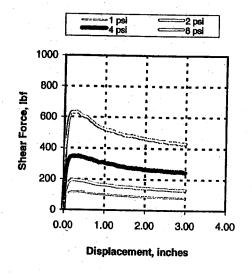
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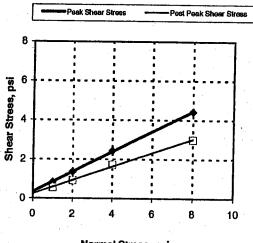
RMT/BDF

psi

#### Figure a. Shear Force vs. Horizontal Displacement

Figure b. Shear Stress vs. Normal Stress





Normal Stress, psi

Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Form D5321REP, version 2

#### Collecting express

## REVIEWED AND NOTED Interface Shear Series day den IMD 5321

COMPLIANCE WITH CONTRACT

DOCUMENTS

Client: **Project Name:** 

Royal Environmental Former Landfill IRM; 6MC O'BRIEN & GERE ENGINEERS, FIG. Date:

12/15/04

**Project Location:** 

1 General Motors Drive

End Date: Tested By: 12/17/04 RMT/BDF

GTX #:

Checked By: JDT

Test Profile / Setup

Top to bottom:

Series #3; steel plate / GEOMEMBRANE / GEOTEXTILE / textured steel plate

Soil ID/Description:

Soil Preparation:

**Compaction Characteristics** 

**ASTM D 698:** 

Maximum Dry Density, pcf

Optimum Moisture Content, %

Geosynthetic Description /

Preparation:

Geomembrane: 40 mil Textured LLDPE.

Geotextile: S1200: Black, non-woven geotextile.

Test inundated under normal load for 15 minutes prior to shear.

**Test Equipment:** 

Top box = 12 in x 12 in; Bottom box = 16 in x 12 in; Load cells and LVDTs connected to data acquisition system for shear force, normal load and horizontal displacement

readings; Flat plate clamping device; surface area = 144 in<sup>2</sup>

**Test Condition:** 

inundated

Horizontal Displacement, in/min: 0.039

Parameter	Point 1	Point 2	Point 3	Point 4	Point 5
Initial Moisture Content, %					
Initial Dry Density, pcf					
Percent Compaction, %					
Normal Compressive Stress, psi	1.0	2.0	4.0	8.0	
Peak Shear Stress, psi	0.6	1.2	2.0	3.9	
Post Peak Shear Stress, psi	0.5	0.9	1.6	2.9	
Final Moisture Content, %				2.0	

NOTE:

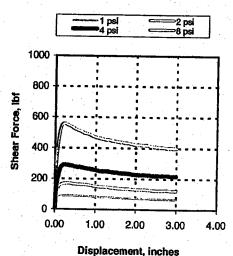
**Peak Friction Angle: Peak Cohesion:** 

25 0.2 degrees psi

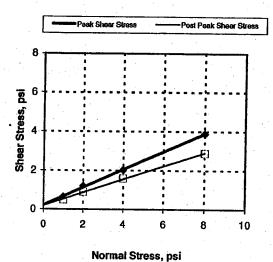
**Post Peak Friction Angle: Post Peak Cohesion:** 

19 0.2 degrees psi

#### Figure a. Shear Force vs. Horizontal Displacement



#### Figure b. Shear Stress vs. Normal Stress



Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the Indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Form D5321REP, version 2

#### Collesting OKP COSS

#### **REVIEWED AND NOTED** D SOLELY FOR GEN Interface

#### **DOCUMENTS**

Client: **Project Name:**  **Royal Environmental** Former Landfill IRM; QMG O'BRIEN & GERE ENGINEERS, IMC. Start Date:

12/16/04

**Project Location:** 

1 General Motors Drive

End Date:

12/17/04

GTX #:

5666

**Tested By:** 

RMT/BDF

Test Profile / Setup

Checked By: JDT Series #4; steel plate / GEOMEMBRANE / GEOTEXTILE / textured steel plate

Top to bottom:

Soil ID/Description:

Soil Preparation: **Compaction Characteristics** 

Maximum Dry Density, pcf

Optimum Moisture Content, %

**ASTM D 698:** 

Geosynthetic Description /

Geomembrane: 40 mil Textured LLDPE.

Preparation:

Geotextile: SF65: Gray, non-woven geotextile.

Test inundated under normal load for 15 minutes prior to shear.

**Test Equipment:** 

Top box = 12 in x 12 in; Bottom box = 16 in x 12 in; Load cells and LVDTs connected to data acquisition system for shear force, normal load and horizontal displacement

readings; Flat plate clamping device; surface area = 144 in<sup>2</sup>

**Test Condition:** 

inundated

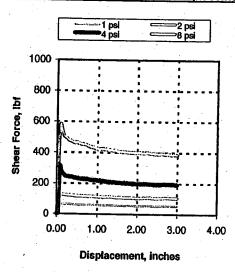
Horizontal Displacement, in/min: 0.039

Parameter	Point 1	Point 2	Point 3	Point 4	Point 5
Initial Moisture Content, %			i		
Initial Dry Density, pcf					
Percent Compaction, %					
Normal Compressive Stress, psi	1.0	2.0	4.0	8.0	
Peak Shear Stress, psi	0.6	1.1	2.2		
Post Peak Shear Stress, psi	0.4	0.8		4.1	
Final Moisture Content, %		0.8	1.4	2.7	

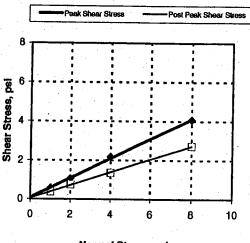
NOTE:

**Peak Friction Angle:** 27 degrees **Peak Cohesion:** 0.1 psi **Post Peak Friction Angle:** 18 degrees **Post Peak Cohesion:** 0.1 psi

#### Figure a. Shear Force vs. Horizontal Displacement



#### Figure b. Shear Stress vs. Normal Stress



Normal Stress, psi

Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Form D5321REP, version 2



SUBJECT SLOPE FIZILTION SHEET BY DATE JOB NO. 1/2 1/18/05 4964/34126 NMK GMLAUDELL IRM-F.S. CALCULATIONS d tan Peak Priction Should richion ange Facol- of Safety tarol redny 1 Specy begin - da 02293 Barrier Protection Series#1 -planer Frichon Angre 350 11.3 40 hil Textured UDPE/ Oriplanot Seris #2 Mak Friction Angle 11.3 Slope angle LLDPE/15/200 Geotextile-hon-worken Angle 2. Angre 3 2 5765, nonvoien Bedenile LOPE lexuco



SUBJECT SLOPE FRICTION SHEET BY DATE JOB NO.

GM LANDFILL IRM - F.S. CALCULATIONS 2/2 NMK 1/18/05 4966/34126

Series # 5 SFG5 / Barrier Protection Layer  Plea & Prethin argue: 32° 32 13 - 2.83																																
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#### **PROJECT SUBMITTAL**

**Project Name:** 

Former Landfill IRM

Submittal No.:

028

Subject:

Former Landfill IRM - Submittal for Specification Section

02293

Project No.: 19

60709-5

Date:

January 21, 2005

Attached you will find the Geotechnical Test Report (laboratory interface shear test series results) for the following landfill cap components:

• Barrier Protection Layer and Typar SF-65

# Ccolesting express

1145 Massachusetts Avenue Boxborough, MA 01719 978 635 0424 Tel 978 635 0266 Fax

# REVIEWED REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENCIMEERS, INC.

Date 2/7/05 EV MMK

Fred Hooper - Laboratory Manager

<b>Transmittal</b>	

то:			<b>.</b>			
Mr. Paul Micciche  Royal Environmental  1 General Motors Drive  Syracuse, NY 13206			DATE: 1/19/05	05 GTX NO: 5666		
			RE: Former Landfill IRM; GMC Project			
			· · · · · · · · · · · · · · · · · · ·			
	man of the state o					
			-			
	70	<del></del>	<del>-</del> - '.			
COPIES	DATE	T	DESCRIPTION			
	1/19/05	January 2005 Laborate				
·		1 four-point Interface Shear Test Series (ASTM D 5321)				
**		**************************************				
				·		
REMARKS:						
	<del>_</del>					
				<i>7)</i>		
		SIGN	NED: ( find m	mu .		
C:			Joe Tomei – Laborator			
				/		
		APPROVED	BY:			



1145 Massachusetts Avenue Boxborough, MA 01719 978 635 0424 Tel 978 635 0266 Fax REVIEWED

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 2/7/05 By MUK

# **Geotechnical Test Report**

January 19, 2005

Former
Landfill IRM
GMC
Project

Prepared for:

**Royal Environmental** 

#### Collecting @xpross

#### BENEMED SOLEET COMPLIANCE WITH CONTRACT

# Interface Shear Test Series by ASTM D 5321

Royal Environiก็ยักิส

Former Landfill IRM: GMC

Start Date: 01/17/05

**Project Location:** 1 General Motors Drive **End Date:** Tested By:

01/18/05 RMT/BDF

**GTX #:** 

Client:

5666

Checked By: JDT

**Test Profile / Setup** 

**Project Name:** 

Series #5; steel plate / SOIL / GEOTEXTILE / textured steel plate

Top to bottom: Soil ID/Description:

Barrier Protection Layer: Moist, brown sand with silt and gravel.

Soil Preparation:

Compacted to 95% of Maximum Dry Density at the Optimum Moisture Content (values

provided by client).

**Compaction Characteristics** 

**ASTM D 698:** 

Maximum Dry Density, pcf Optimum Moisture Content, % 133.9 6.8

Geosynthetic Description /

Geotextile: SF65: Gray, non-woven geotextile.

Preparation:

Test inundated under normal load for 30 minutes prior to shear.

**Test Equipment:** 

Top box = 12 in x 12 in; Bottom box = 16 in x 12 in; Load cells and LVDTs connected to data acquisition system for shear force, normal load and horizontal displacement

readings; Flat plate clamping device; surface area = 144 in<sup>2</sup>

**Test Condition:** 

inundated

Horizontal Displacement, in/min: 0.039

Parameter	Point 1	Point 2	Point 3	Point 4	Point 5
Initial Moisture Content, %	7	7	7	-7	
Initial Dry Density, pcf	127	127	127	127	
Percent Compaction, %	94.8	94.8	94.8	94.8	
Normal Compressive Stress, psi	1.0	2.0	4.0	8.0	
Peak Shear Stress, psi	0.6	1.2	2.3	4.9	
Post Peak Shear Stress, psi	0.5	1.1	2.2	4.9	
Final Moisture Content, %	18	17	18	17	

NOTE:

**Peak Friction Angle: Peak Cohesion:** 

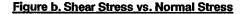
32 32

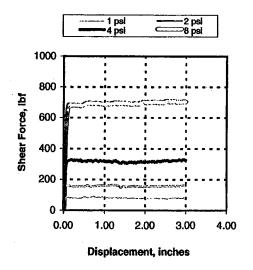
degrees psi degrees

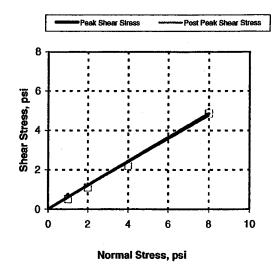
**Post Peak Friction Angle:** Post Peak Cohesion:

psi

#### Figure a. Shear Force vs. Horizontal Displacement







Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material. Form D5321REP, version 2  $Geomembrane \ CQC-In staller \ subgrade \ acceptance$ 

## New England Liner Systems, Inc.

Certification of Acceptance of Soil Subgrade

réé	tion:	SALOCOSE MA
i, the vieus suris	underzigned zily observed ice on which i	, a cluly appointed representative of New England Liner Systems, inc. have the soil subgrade strikes described below, and found it to be an acceptable o install geomembrane.
ioner Deka	Systems, inc. 7 the surface	based on observations of the surface of the subgrade only. No subterranean have been performed by New England Liner Systems, inc. and New England makes no representations or warrantee requarding conditions which may exist the subgrade. New England liner Systems, inc. accepts no reaponsibility for subgrade to this projects specifications.
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_	Accepted:	
_	mels 6	8 through 79 accepted as consered.
_		8. through 79 accepted as consered.
_		8. through 79 accepted as consued.
Ρ.	mels 6	8. Hymnel 79 accepted as consued.  Systems, toc. Representative:
Ρ.	mels 6	
Ρ.	England Liner	Systems, Inc. Representative:
Ρ.	England Liner	Systems, Inc. Representative:

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# New England Liner Systems, Inc. Certification of Acceptance of Soli Subgrade

Owner:	GN
Leontion:	Syfarage
i, the undersigned visually observed surface on which	i, a duly appointed representative of New England Liner Systems, Inc. have interesting subgrade surface described below, and found it to be an acceptable to tratail geomembrane.
below the surface	s based on observations of the surface of the subgrade only. No subterranean is have been performed by New England Liner Systems, Inc. and New England in makes no representations or warranties requarding conditions which may exist of the subgrade, New England liner Systems, Inc. accepts no responsibility for a subgrade to this projects specifications.
Areas Accepted:	
Panels &	59 Strand Co.
	19 through 67 accepted as covered
-	
New England Line:	Systems, Inc. Representative:
Date:	10-7-03
Signature;	Should no faster
Name:	Russell Jackson
Title:	Superviser

## New England Liner Systems, Inc.

Certification of Acceptance of Soil Subgrade

Owner:	GM
Location:	Shracite in A
	La chily appointed representative of New England Liner Systems, Inc. have the soil subgrade surface described below, and found it to be an acceptable to install geomembrane.
Liner Systems, Inc	beased on observations of the surface of the subgracie only. No subterrangen is have been performed by New England Liner Systems, inc. and New England, makes no representations or warrandes reguarding conditions which may end of the subgrade. New England liner Systems, inc. accepts no responsibility for a subgrade to this projects specifications.
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fanels 4	2. Through 58 accepted as covered
· · · · · · · · · · · · · · · · · · ·	
Nam Pooland I (no.	• Constant to a Manager
	Systems, Inc. Representative:
Date:	
Signature:	Showed on Such
Name:	Russell Jackson
Title:	Supervisor
	$\cdot \cdot$

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3154325000

## New England Liner Systems, Inc.

Certification of Acceptance of Soil Subgrade

Owner:	GM
Location	Spracuse, NY
ASSESSMENT OF THE PROPERTY OF	oned, a duly appointed representative of New England Liner Systems, Inc. have eved the soil subgrade surface described below, and found it to be an acceptable aich to install geomembrane.
Liner Systems below the sur	ion is based on observations of the surface of the subgrade only. No subterranean rivels have been performed by New England Liner Systems, inc. and New England is the trained no representations or warranties reguarding conditions which may existed of the subgrade. New England liner Systems, inc. accepts no responsibility for of the subgrade to this projects specifications.
Areas Accept	ed:
Panels	24 through 41 accepted as caracted
New England	Liner Systems, Inc., Representative:
Date:	10-3-03
Signa	ave. Stankalah
Name	Russell Tackson
Title:	Sorecuisa

**Y** 

3154325000

## New England Liner Systems, Inc.

Certification of Asseptance of Soil Subgrade

Project Name: _	
Owner:	5-M
Location:	SY LECUTE, NY
AIRORNA COSSIASC	l, a duly appointed representative of New England Liner Systems, Inc. have the soil subgrade stated described below, and found it to be an acceptable to install geomembrane.
Liner Systems, Inc. below the surface	t based on observations of the surface of the subgrade only. No subterranean s have been performed by New England Liner Systems, Inc. and New England , males no representations or warranties requarding conditions which may exist of the subgrade. New England liner Systems, Inc. accepts no responsibility for a subgrade to this projects specifications.
Areas Accepted:	
_ `	
Panels 1	through 25 accepted as covered.
<del></del>	
· · · · · · · · · · · · · · · · · · ·	
New England Line	r Systems, Inc. Representative:
	_
Date:	10-2-03
Signature:	Amed on fach
Name:	Bussell Tackson
Title:	Supervisor

 $Geomembrane\ CQC-Geomembrane\ panel\ layout$ 

## New England Liner Systems, Inc.

### Panel Placement Form

Project: Former Landfill IRM
Former IFG Facility

GM - Syracuse, NY

Product: 40 Mil LLDPE

	Panel	Roll	Panel	Panel		
Date	Number	Number	Length	Width	sq. ft.	Comments
02-Oct-03	1	101109039	29	22.5	653	Smooth
02-Oct-03	2	101109039	30	22.5	675	Smooth
02-Oct-03	3	101109039	30	22.5	675	Smooth
02-Oct-03	4	101109039	31	22.5	698	Smooth
02-Oct-03	5	101109039	32	22.5	720	Smooth
02-Oct-03	6	101109039	32	22.5	720	Smooth
02-Oct-03	7	101109039	33	22.5	743	Smooth
02-Oct-03	8	101109039	33	22.5	743	Smooth
02-Oct-03	9	101109039	34	22.5	765	Smooth
02-Oct-03	10	101109039	34	22.5	765	Smooth
02-Oct-03	11	101109039	35	22.5	788	Smooth
02-Oct-03	12	104118795	35	22.5	788	Textured
02-Oct-03	13	104118795	35	22.5	788	Textured
02-Oct-03	14	<i>104118795</i>	. 36	22.5	810	Textured
02-Oct-03	15	<i>104118795</i>	36	22.5	810	Textured
02-Oct-03	16	<i>104118795</i>	36	22.5	810	Textured
02-Oct-03	17	<i>104118795</i>	36	22.5	810	Textured
02-Oct-03	18	<i>104118795</i>	36	22.5	810	Textured
02-Oct-03	19	<i>104118795</i>	38	22.5	855	Textured
02-Oct-03	20	104118795	38	22.5	855	Textured
02-Oct-03	21	104118795	39	22.5	878	Textured
02-Oct-03	22	104118795	38	22.5	855	Textured
02-Oct-03	23	104118795	38	22.5	855	Textured
02-Oct-03	24	104118795	38	22.5	855	Textured
02-Oct-03	25	104118795	39	22.5	878	Textured
03-Oct-03	26	104118795	41	22.5	923	Textured
03-Oct-03	27	104118795	41	22.5	923	Textured
03-Oct-03	28	104118795	32	22.5	720	Textured To the read
03-Oct-03	29	104118795	23	22.5	518	Textured
03-Oct-03	30	104118794	37	22.5	833	Textured
03-Oct-03	31	104118794	<i>75</i>	22.5	1,688	Textured Textured
03-Oct-03	32	104118794	97	22.5 22.5	2,183	Textured
03-Oct-03	33	104118794	97	<del></del>	2,183	Textured
03-Oct-03	34 35	104118794	96 95	22.5 22.5	2,160 2,138	Textured
03-Oct-03	36	104118794	92	22.5	2,136	Textured
03-Oct-03	37	104118794	92	22.5	2,070	Textured
03-Oct-03		104118794 104118794	22	10	2,070	Textured
03-Oct-03	38				11,475	Smooth
03-Oct-03	<i>39</i> <i>40</i>	101109039 101108938	510 60	22.5 22.5	1,350	Smooth
03-Oct-03	40	101108938	580	22.5	13,050	Smooth
03-Oct-03	42	101108938	232	22.5	5,220	Smooth
06-Oct-03	43	101108938	330	22.5	7,425	Smooth
06-Oct-03 06-Oct-03	44	101109048	530	22.5	11,925	Smooth
	45	101109048	29	22.5	653	Smooth
06-Oct-03	1 73	101109042	29	1 22.3	033	JIIIOGGI

## New England Liner Systems, Inc.

### **Panel Placement Form**

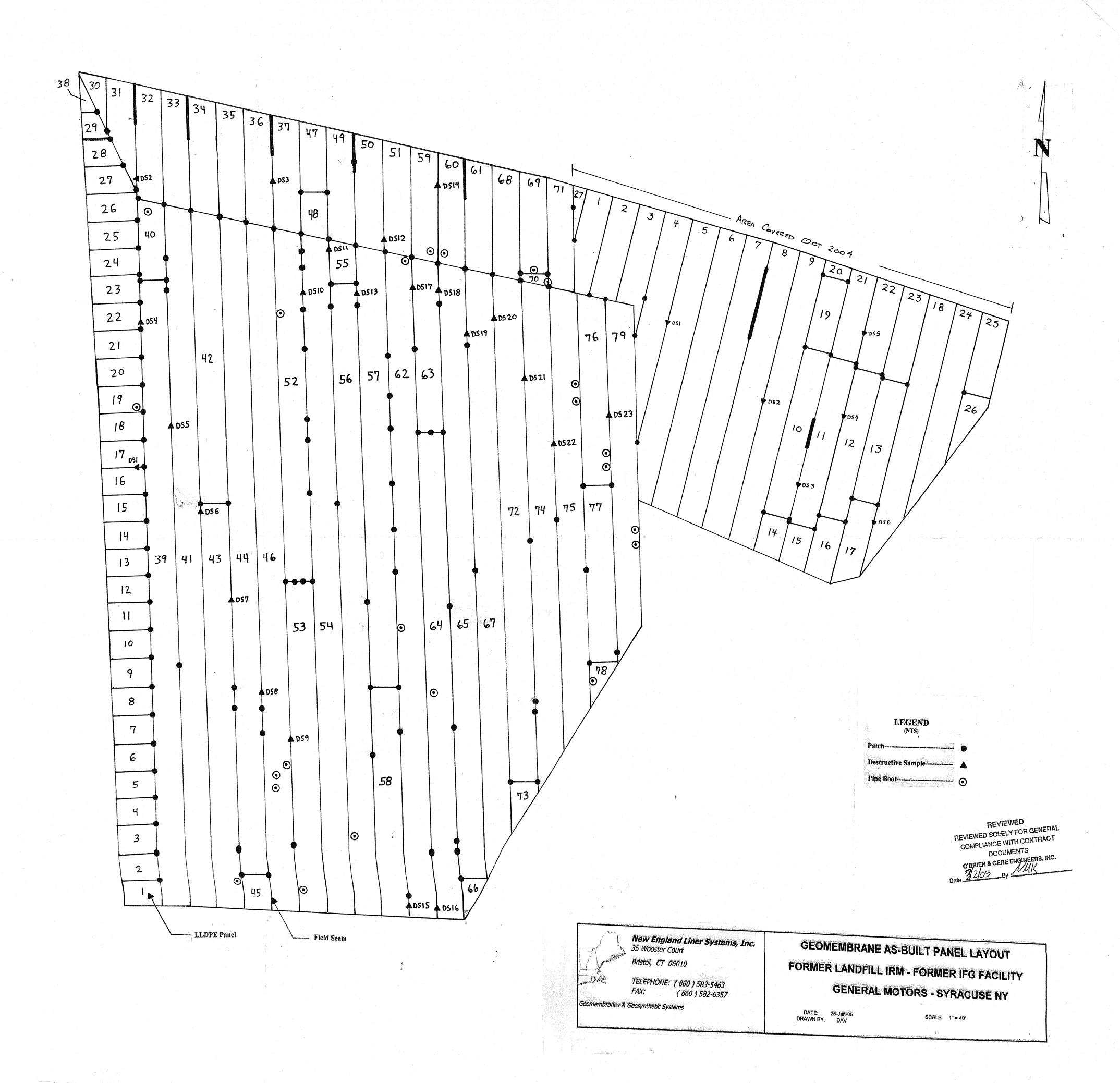
Project:

Former Landfill IRM Former IFG Facility

GM - Syracuse, NY

Product: 40 Mil LLDPE

	Panel	Roll	Panel	Panel	-	
Date	Number	Number		Width		Commonts
06-Oct-03	46	101109042	Length 555		sq. ft,	Comments
06-Oct-03	47			<i>22.5</i>	12,488	Smooth
		104118794	48	22.5	1,080	Textured
06-Oct-03	48	104118796	48	22.5	1,080	Textured
06-Oct-03	49	104118796	91	22.5	2,048	Textured
06-Oct-03	50	104118796	91	22.5	2,048	Textured
06-Oct-03	51	104118796	85	22.5	1,913	Textured
06-Oct-03	<i>52</i>	101109042	282	22.5	6,345	Smooth
06-Oct-03	<i>53</i>	101109051	276	22.5	6,210	Smooth
06-Oct-03	54	101109051	550	22.5	12,375	Smooth
06-Oct-03	55	101109051	33	22.5	743	Smooth
06-Oct-03	56	101108966	<i>506</i>	22.5	11,385	Smooth
06-Oct-03	<i>57</i>	101108966	350	22.5	7,875	Smooth
06-Oct-03	58	101109038	193	22.5	4,343	Smooth
07-Oct-03	59	104118796	86	22.5	1,935	Textured
07-Oct-03	60	104118796	83	22.5	1,868	Textured
07-Oct-03	61	104118796	<i>77</i>	22.5	1,733	Textured
07-Oct-03	62	<i>101109038</i>	<i>535</i>	22.5	12,038	Smooth
07-Oct-03	63	101109038	136	22.5	3,060	Smooth
07-Oct-03	64	101109053	390	22.5	8,775	Smooth
07-Oct-03	<i>65</i>	101109053	472	22.5	10,620	Smooth
07-Oct-03	66	101108936	45	22.5	1,013	Smooth
07-Oct-03	67	101108936	470	22.5	10,575	Smooth
17-Oct-03	68	104118796	<i>75</i>	22.5	1,688	Textured
17-Oct-03	69	104118796	62	22.5	1,395	Textured
17-Oct-03	70	104118795	10	22.5	225	Textured
17-Oct-03	71	104118793	68	22.5	1,530	Textured
17-Oct-03	72	101108936	364	22.5	8,190	Smooth
17-Oct-03	73	101109044	56	22.5	1,260	Smooth
17-Oct-03	74	101109044	377	22.5	8,483	Smooth
17-Oct-03	<i>75</i>	101109044	341	22.5	7,673	Smooth
17-Oct-03	76	101109044	121	22.5	2,723	Smooth
17-Oct-03	77	101108940	121	22.5	2,723	Smooth
17-Oct-03	78	101109044	45	22.5	1,013	Smooth
17-Oct-03	79	101108940	202	22.5	4,545	Smooth
		_ = = = = = = = = = = = = = = = = = = =			, 1	



 $Geomembrane \ CQC-Non-destructive \ and \ destructive \ seam \ testing \ results$ 

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

GTX#:

4827

**Project Name:** 

GM/Syracuse

Test Date:

10/07/03

**Project Location:** 

Report #:

1

installer:

**New England Liner Systems** 

Page:

1 of 9

**Upper Geomembrane:** 

40 mil Textured LLDPE

Lower Geomembrane:

40 mil Textured LLDPE

Seaming Method:

**Dual Hot-Wedge Weld** 

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

**Testing Speed:** 

Specimen Size:

1 in x 8 in

20in/min

Date Sampled:

10/06/03

Sample ID:

Seam:

DS-1 16/17

Welder ID:

Machine ID:

21

				(	Shear Stren	gth			
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	77		FTB/SE1	73	<del>-</del> :	FTB/SE1	92		FTB/SE1
2	81		FTB/SE1	71		FTB/SE1	79	· <del></del>	FTB/SE1
3	76	<del></del>	FTB/SE1	77	<del></del>	FTB/SE1	89		•
4	75	<del></del>	FTB/SE1	72	<del></del> .	FTB/SE1	76		FTB/BRK
5	80		FTB/SE1	84		FTB/SE1	90	<del></del> .	FTB/SE1
Average	78			75		<b></b>	85		

Comments:

Tested By:

**CMQ** 

Checked By:

MCH

REVIEWED REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT **DOCUMENTS** 

O'ERIÉN & GERE ENGINEERS, INC.

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

**Project Name:** 

**Project Location:** 

GM/Syracuse

Installer:

**New England Liner Systems** 

**GTX #:** 

4827

2 of 9

**Test Date:** 

10/07/03

Report #: Page:

1

**Upper Geomembrane:** Lower Geomembrane: 40 mil Textured LLDPE 40 mil Textured LLDPE

Seaming Method:

**Dual Hot-Wedge Weld** 

Testing Machine:

Instron 1123

**Testing Speed:** 

20in/min

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

Sample ID:

DS-2 31/32

Date Sampled:

10/06/03

Welder ID:

Seam: Machine ID: 21

			Peel St		Shear Strength				
	Weld A			Weld B					
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	·Failure Type	lb./in	Delamination, %	Failure Type
1	73		FTB/SE1	80	4	FTB/SE1	81		•
2	70		FTB/SE1	89		FTB/SE1	82		•
3	80	· ·	FTB/SE1	74	***	FTB/SE1	76		•
4	83	•	FTB/SE1	72		FTB/SE1	75		FTB/SE1
5	79		FTB/SE1	75		FTB/SE1	82		•
Average	77	-		78			79		

**Comments:** 

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

**GTX #:** 

4827

**Project Name:** 

GM/Syracuse

Test Date:

10/07/03

**Project Location:** 

Report #:

1

Installer:

**New England Liner Systems** 

Page:

3 of 9

**Upper Geomembrane:** Lower Geomembrane: 40 mil Textured LLDPE 40 mil Textured LLDPE

Seaming Method:

**Dual Hot-Wedge Weld** 

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

**Testing Speed:** 

Specimen Size:

1 in x 8 in

20in/min

Sample ID:

**DS-3** 36/37 **Date Sampled:** Welder ID:

10/06/03

Seam: Machine ID:

22

			Shear Strength						
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	·Failure Type	lb./in	Delamination, %	Failure Type
1	75	-	FTB/SE1	73		FTB/SE1	86		•
2	76		FTB/SE1	78		FTB/SE1	85		*
3	75	***	FTB/SE1	76		FTB/SE1	84		FTB/SE1
4	79		FTB/SE1	72		FTB/SE1	87		FTB/SE1
5	86		FTB/SE1	80	·	FTB/SE1	88		•
Average	78		•••	76		***	86		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

installer:

**New England Liner Systems** 

**Project Name:** 

**GM/Syracuse** 

**Test Date:** 

**GTX #:** 

4827 10/07/03

**Project Location:** 

**New England Liner Systems** 

Report #:

1

**Upper Geomembrane:** 

40 mil Textured LLDPE

Page:

4 of 9

Lower Geomembrane:

40 mil Textured LLDPE

Seaming Method:

**Dual Hot-Wedge Weld** 

Testing Machine:

Instron 1123

Grips:

ATS pneumatic

**Testing Speed:** 

20in/min

Specimen Size:

1 in x 8 in

**Date Sampled:** 

10/06/03

Sample ID: Seam:

DS-4 22/39

Welder ID:

Machine ID:

21

				Shear Strength					
		Weld A			Weld B				
Specimen Number	lb./in .	Delamination, %	Failure Type	lb./in	Delamination, %	.Failure Type	lb./in	Delamination, %	Failure Type
1	69	•••	FTB/BRK	68	****	FTB/SE1	97	<b>-</b> )	FTB/SE1
2	71	••••	FTB/BRK	71	***	FTB/SE1	71		FTB/BRK
3,	85		FTB/SE1	70		FTB/SE1	88		FTB/SE1
4	91		FTB/SE1	66	thou .	FTB/SE1	90	<del></del>	FTB/SE1
5	85		FTB/SE1	67		FTB/SE1	88	•••	•
Average	80			68			87		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

GTX #:

4827

Project Name:

GM/Syracuse

**Test Date:** 

10/07/03

**Project Location:** 

---

Report #:

1

Installer:

**New England Liner Systems** 

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**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE Dual Hot-Wedge Weld

Seaming Method:

Instron 1123

Grips:

ATS pneumatic

Testing Machine: Testing Speed:

20in/min

Specimen Size:

1 in x 8 in

Sample ID:

2011/11/11

**Date Sampled:** 

10/06/03

Seam:

DS-5 39/41

Welder ID:

10/00/0

Machine ID:

22

			Shear Strength						
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	69		FTB/BRK	67		FTB/SE1	80		FTB/SE1
2	. 66		FTB/SE1	70	***	FTB/SE1	75	-	FTB/SE1
3	65		FTB/SE1	67		FTB/SE1	75		FTB/SE1
4	66		FTB/SE1	71	· · · · · · · · · · · · · · · · · · ·	FTB/SE1	78	·	FTB/SE1
5	68		FTB/SE1	68		FTB/SE1	79		FTB/SE1
Average	67			69			77		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

installer:

**New England Liner Systems** 

GM/Syracuse

**GTX #:** 

4827

**Project Name:** 

**Test Date:** 

10/07/03

**Project Location:** 

New England Liner Systems

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**Upper Geomembrane:** 

40 mil Smooth LLDPE 40 mil Smooth LLDPE

Lower Geomembrane: Seaming Method:

**Dual Hot-Wedge Weld** 

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

**Testing Speed:** 

Specimen Size:

1 in x 8 in

20in/min

**Date Sampled:** 

Sample ID: Seam:

DS-6 41/43

Welder ID:

10/06/03

Machine ID:

22

			Peel St	rength			Shear Strength			
	Weld A			Weld B						
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	
1	64		FTB/SE1	68		FTB/SE1	78		FTB/SE1	
2	65		FTB/SE1	67		FTB/SE1	71		FTB/BRK	
3	67	***	FTB/SE1	66	<b></b>	FTB/SE1	72		FTB/ŞE1	
4	67		FTB/SE1	66	***	FTB/SE1	77	•	FTB/SE1	
5	66		FTB/SE1	66	·	FTB/SE1	77	· <u></u>	FTB/SE1	
Average	66	***		67			75		***	

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

GTX #:

4827

**Project Name:** 

**GM/Syracuse** 

Test Date:

10/07/03

**Project Location:** 

Report #:

Installer:

**New England Liner Systems** 

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**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

Seaming Method:

**Dual Hot-Wedge Weld** 

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

**Testing Speed:** 

20in/min

Sample ID:

**DS-7** 

Date Sampled: Welder ID:

10/06/03

Seam: Machine ID: 43/44 21

			Peel St	rength			Shear Strength			
		Weld A			Weld B					
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	
1	72		FTB/SE1	63		FTB/SE1	70		FTB/BRK	
2	78	***	FTB/SE1	66		FTB/SE1	70		FTB/BRK	
3	78		FTB/SE1	66		FTB/SE1	73		FTB/SE1	
4	76	enter the second	FTB/SE1	62		FTB/SE1	74	***	FTB/SE1	
5	77		FTB/SE1	62		FTB/SE1	78		FTB/SE1	
Average	76			64			73			

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

GTX #:

4827

**Project Name:** 

GM/Syracuse

Test Date:

10/07/03

**Project Location:** 

---

Report #:

1

Installer:

**New England Liner Systems** 

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Upper Geomembrane:

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

**Seaming Method:** 

**Dual Hot-Wedge Weld** 

Testing Machine:

Instron 1123

Grips:

ATS pneumatic

**Testing Speed:** 

20in/min

Specimen Size:

1 in x 8 in

Sample ID:

DS-8

Date Sampled:

10/06/03

Seam:

44/46

Welder ID:

0,00,00

Machine ID:

22

·			Peel St	rength	·		Shear Strength			
		Weld A			Weld B					
Specimen Number	lb./in	Delamination, %	Failure Type	łb./in	Delamination %	<sup>1,</sup> Failure Type	lb./in	Delamination,	Failure Type	
1	65		FTB/SE1	61		FTB/SE1	63		FTB/BRK	
2	65		FTB/SE1	. 69	***	FTB/BRK	77		FTB/SE1	
3	67		FTB/SE1	66		FTB/SE1	76	_	FTB/SE1	
4	64		FTB/SE1	70		FTB/SE1	75		FTB/SE1	
5	64		FTB/SE1	62		FTB/SE1	77	-	FTB/SE1	
Average	65			66		•••	74			

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

**GTX #:** 

4827

**Project Name:** 

GM/Syracuse

**Test Date:** 

10/07/03

**Project Location:** Installer:

**New England Liner Systems** 

Report #: Page:

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Upper Geomembrane:

40 mil Smooth LLDPE

Lower Geomembrane: Seaming Method:

40 mil Smooth LLDPE

**Dual Hot-Wedge Weld** 

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

**Testing Speed:** 

20in/min

Specimen Size:

1 in x 8 in

Sample ID:

DS-9

Date Sampled:

10/06/03

Seam: Machine ID:

44/46 21

Welder ID:

			Peel St	rength				Shear Stren	gth
		Weld A		_	Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination,	Failure Type
1	68		FTB/BRK	65		FTB/SE1	70		FTB/BRK
2	7.1	·	FTB/BRK	67	***	FTB/SE1	70		FTB/BRK
. 3	72		FTB/SE1	67	•••	FTB/SE1	76		FTB/SE1
4	75		FTB/SE1	70		FTB/SE1	77		FTB/SE1
5	80		FTB/SE1	69		FTB/SE1	70		FTB/SE1
Average	73			68			73		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

**Project Name:** 

**GM/Syracuse** 

**Project Location:** Installer:

**New England Liner Systems** 

GTX #:

4827

**Test Date:** 

10/08/03

Report #: Page:

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Upper Geomembrane:

40 mil Smooth LLDPE

Lower Geomembrane: **Seaming Method:** 

40 mil Smooth LLDPE **Dual Hot-Wedge Weld** 

**Testing Machine:** 

Instron 1123

**Testing Speed:** 

20in/min

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

Sample ID:

**DS-10** 

**Date Sampled:** 

10/07/03

Seam:

52/54

Welder ID:

NO

Machine ID:

21

			Peel St	rength			Shear Strength		
	-	Weld A		Weld B					
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	64	***	FTB/SE1	61		FTB/SE1	68		FTB/SE1
2	64	***	FTB/SE1	62		FTB/SE1	70		FTB/SE1
3	73		FTB/SE1	67		FTB/SE1	68		FTB/SE1
4	66		FTB/SE1	64	***	FTB/SE1	75		FTB/SE1
5	64		FTB/SE1	64		FTB/SE1	76	<del></del>	FTB/SE1
Average	66			64			71		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

**GTX #:** 

4827

**Project Name:** 

GM/Syracuse

**Test Date:** 

10/08/03

**Project Location:** 

Report #:

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Installer:

**New England Liner Systems** 

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**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE **Dual Hot-Wedge Weld** 

**Testing Machine:** 

Seaming Method:

Instron 1123

Grips:

ATS pneumatic

**Testing Speed:** 

Specimen Size:

1 in x 8 in

20in/min

**Date Sampled:** 

Sample ID: Seam:

**DS-11** 55/54

Welder ID:

10/07/03 NO

Machine ID:

21

			Peel Str	ength			Shear Strength			
		Weld A			Weld B					
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination %	' Failure Type	lb./in	Delamination, %	Failure Type	
1	70		FTB/SE1	-60		FTB/SE1	64		FTB/SE1	
2	69		FTB/SE1	63		FTB/SE1	74	<del></del>	FTB/SE1	
3	76		FTB/SE1	68		FTB/SE1	78		FTB/SE1	
4	75	***	FTB/SE1	66		FTB/SE1	74		FTB/SE1	
5	68		FTB/SE1	68		FTB/SE1	60		FTB/SE1	
Average	72	***		65	***		70	***		

**Comments:** 

Tested By:

**CMQ** 

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

Installer:

**New England Liner Systems** 

GM/Syracuse

**Project Name: Project Location:** 

**New England Liner Systems** 

GTX #:

4827

**Test Date:** Report #:

10/08/03 2

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**Upper Geomembrane:** 

40 mil Textured LLDPE 40 mil Textured LLDPE

Lower Geomembrane: **Seaming Method:** 

**Dual Hot-Wedge Weld** 

**Testing Machine: Testing Speed:** 

Instron 1123

Grips:

ATS pneumatic

20in/min

Specimen Size:

1 in x 8 in

Sample ID:

Date Sampled:

10/07/03

Seam:

**DS-12** 51/50

Welder ID:

NO

Machine ID:

21

			Peel St	rength			(	Shear Stren	gth
		Weld A		Weld B					
Specimen Number	lb./in	Delamination, %	Failure Type	ib./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	<b>8</b> 6		FTB/SE1	73		FTB/SE1	78		FTB/SE1
2	89 `	•••	FTB/SE1	79		FTB/SE1	83	<del></del>	FTB/SE1
3	86		FTB/SE1	76		FTB/SE1	83	· <u></u>	FTB/SE1
4	80	****	FTB/SE1	70		FTB/SE1	86	-	FTB/SE1
5	85		FTB/SE1	73		FTB/SE1	75		FTB/SE1
Average	85			74	·	•••	81	-	

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

**GTX #:** 

4827

**Project Name:** 

**GM/Syracuse** 

**Test Date:** 

10/08/03

**Project Location:** 

Report #:

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Installer:

**New England Liner Systems** 

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**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE **Dual Hot-Wedge Weld** 

**Seaming Method:** 

Instron 1123

Grips:

**ATS pneumatic** 

**Testing Machine: Testing Speed:** 

**Specimen Size:** 

1 in x 8 in

20in/min

Sample ID:

**DS-13** 

**Date Sampled:** 

10/07/03

Seam:

57/56

Welder ID:

NO

Machine ID:

21

			Peel St	rength			(	Shear Stren	gth
		Weld A		Weld B					
Specimen Number	lb./in	Delamination, %	Failure Type	fb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	75	***	FTB/SE1	63	****	FTB/SE1	69		FTB/SE1
2	69		FTB/SE1	61		FTB/SE1	71		FTB/SE1
3	71		FTB/SE1	62		FTB/SE1	74		FTB/SE1
4	73		FTB/SE1	63		FTB/SE1	71		FTB/SE1
5	76		FTB/SE1	61		FTB/SE1	70		FTB/SE1
Average	73	***		62	***		71	-	

Comments:

Tested By:

**CMQ** 

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

**Project Name:** 

GM/Syracuse

GTX #: **Test Date:** 

4827

**Project Location:** 

Report #:

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Installer:

**New England Liner Systems** 

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**Upper Geomembrane:** 

40 mil Textured LLDPE

Lower Geomembrane: Seaming Method:

40 mil Textured LLDPE **Dual Hot-Wedge Weld** 

Testing Machine:

Instron 1123

**Testing Speed:** 

20in/min

Grips:

ATS pneumatic

**Specimen Size:** 

1 in x 8 in

Sample ID:

**DS-14** 

**Date Sampled:** 

10/08/03

Seam:

60/59

Welder ID:

NO

Machine ID:

21

			Peel St	rength			Shear Strength			
		Weld A	) W		Weld B					
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	
1	86		FTB/SE1	71		FTB/SE1	88		FTB/SE1	
2	94		FTB/SE1	74		FTB/SE1	86		FTB/SE1	
3	80		FTB/SE1	80		FTB/SE1	86		*	
4	78		FTB/SE1	69	•••• ·	FTB/SE1	82	<b></b>	FTB/SE1	
5	78		FTB/SE1	77	. <del></del>	FTB/SE1	89		FTB/SE1	
Average	83			74			86			

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

**GTX #:** 

4827

Project Name:

GM/Syracuse

**Test Date:** 

10/09/03

**Project Location:** 

Report #:

3

Installer:

**New England Liner Systems** 

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**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane: Seaming Method:

40 mil Smooth LLDPE **Dual Hot-Wedge Weld** 

**Testing Machine:** 

Instron 1123

Grips:

**ATS pneumatic** 

**Testing Speed:** 

Specimen Size:

1 in x 8 in

20in/min

**Date Sampled:** 

10/08/03

Sample ID:

**DS-15** 62/58

Welder ID:

NO

Machine ID:

Seam:

21

			Peel Str	ength		Shear Strength						
		Weld A			Weld B							
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type			
1	64		FTB/SE1	67	, <del></del>	FTB/SE1	77		FTB/SE1			
2	67		FTB/SE1	<b>6</b> 5	•	FTB/SE1	75		FTB/SE1			
3	67	<del></del> .	FTB/SE1	66		FTB/SE1	71		FTB/SE1			
4	66	***	FTB/SE1	63		FTB/SE1	75		FTB/SE1			
5	<b>6</b> 5		FTB/SE1	61		FTB/SE1	73		FTB/SE1			
Average	66	****		64			74		***			

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

**Project Name:** 

GM/Syracuse

**Project Location:** Installer:

**New England Liner Systems** 

GTX #:

4827

**Test Date:** 

10/09/03

Report #: Page:

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**Upper Geomembrane:** Lower Geomembrane:

40 mil Smooth LLDPE 40 mil Smooth LLDPE

**Seaming Method:** 

**Dual Hot-Wedge Weld** 

Testing Machine: **Testing Speed:** 

Instron 1123

20in/min

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

Sample ID:

Machine ID:

**DS-16** 

**Date Sampled:** 

10/08/03

Seam:

64/67 21

Welder ID:

NO

Shear Strength

1	T T	Peol S	trength	
		Weld A	Weld B	
-	Specimen	lb./in Delamination, Failure Type	lb /in Delamination, Failure Type	ı.

				59			Onear Ottength		
		Weld A		•	Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
. 1	66	•••	FTB/SE1	60	·	FTB/SE1	70		4
2	81		FTB/SE1	72		FTB/SE1	67		
3	63	***	FTB/SE1	66		FTB/SE1	66		•
4	71	***	FTB/SE1	62	•	FTB/SE1	72		•
5	80		FTB/SE1	63		FTB/SE1	70		•
Average	72			65	•••		69		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

Project Name:

GM/Syracuse

GTX #: Test Date: 4827

Project Location:

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Report #:

10/09/03

Installer:

New England Liner Systems

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**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

**Seaming Method:** 

**Dual Hot-Wedge Weld** 

Testing Machine:

Instron 1123

Grips:

ATS pneumatic

Testing Speed:

20in/min

Specimen Size:

1 in x 8 in

Sample ID:

2011/11111

Date Sampled:

10/08/03

Seam:

DS-17 62/63

Welder ID:

NO

Machine ID:

21

			Peel St	rength			{	Shear Stren	gth
	Weld A				Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
. 1	75		FTB/SE1	66		FTB/SE1	78		FTB/SE1
2	72		FTB/SE1	65	·	FTB/SE1	79		FTB/SE1
3	71		FTB/SE1	64		FTB/SE1	80		FTB/SE1
4	79	•••	FTB/SE1	65		FTB/SE1	77	<u></u> ·	FTB/SE1
5	69		FTB/SE1	68		FTB/SE1	74		FTB/SE1
Average	73			66			78		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

**Project Name:** 

**GM/Syracuse** 

GTX #: **Test Date:** 

4827 10/09/03

**Project Location:** 

Report #:

3

installer:

**New England Liner Systems** 

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Upper Geomembrane:

40 mil Smooth LLDPE

Lower Geomembrane: **Seaming Method:** 

40 mil Smooth LLDPE **Dual Hot-Wedge Weld** 

**Testing Machine: Testing Speed:** 

Instron 1123

20in/min

Grips:

**ATS** pneumatic

Specimen Size:

1 in x 8 in

Sample ID:

**DS-18** 

**Date Sampled:** 

10/08/03

Seam:

65/63

Welder ID:

NO

Machine ID:

21

			Peel St	rength				Shear Stren	gth
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	.Failure Type	lb./in	Delamination, %	Failure Type
1	67		FTB/SE1	66	•••	FTB/SE1	70		*
2	64		FTB/SE1	64	***	FTB/SE1	78		FTB/SE1
3	65		FTB/SE1	63		FTB/SE1	74		· •
4	64		FTB/SE1	. 65		FTB/SE1	76	<del></del>	FTB/SE1
5	71		FTB/SE1	67		FTB/SE1	72		*
Average	66	· .	*	65			74		•

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

**Project Name:** 

**GM/Syracuse** 

**Project Location:** Installer:

**New England Liner Systems** 

GTX #:

4827

Test Date:

10/09/03

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**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane: Seaming Method:

40 mil Smooth LLDPE **Dual Hot-Wedge Weld** 

Testing Machine: **Testing Speed:** 

Instron 1123

20in/min

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

Sample ID: Seam:

**DS-19** 67/65

**Date Sampled:** 

10/08/03

Machine ID:

22

Welder ID:

NO

			Peel St	rength				Shear Stren	gth
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	77		FTB/SE1	63		FTB/SE1	69		FTB/SE1
2	73		FTB/SE1	61		FTB/SE1	74	mark.	FTB/SE1
3	<b>6</b> 6	***	FTB/SE1	65		FTB/SE1	75		FTB/SE1
4	73		FTB/SE1	63		FTB/SE1	73		FTB/SE1
5	75		FTB/SE1	64		FTB/SE1	77		FTB/SE1
Average	73			63			74		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

Installer:

**New England Liner Systems** 

Project Name:

**GM/Syracuse** 

Project Location:

---

**New England Liner Systems** 

GTX #:

4827

**Test Date:** 

10/20/03

Report #:

4

Page:

1 of 4

**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

**Seaming Method:** 

Dual Hot-Wedge Weld

Testing Machine:

Instron 1123

Testing Speed:

20in/min

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

Sample ID:

DS-20

Date Sampled:

10/17/03

Seam:

67/72

Welder ID:

NO

Machine ID:

21

			Peel St	rength			S	hear Stren	gth
	Weld A				Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	79		FTB/SE1	68		FTB/SE1	65	<del></del>	4
2	74	***	FTB/SE1	66		FTB/SE1	66		•
3	66		FTB/SE1	65		FTB/SE1	67		*
4	72		FTB/SE1	<b>6</b> 6	***	FTB/SE1	65	***	*
5	69		FTB/SE1	68		FTB/SE1	65	***	*
Average	72			67	·		66	***	

Comments:

Tested By:

AHP

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**Project Name:** 

**New England Liner Systems** 

**GM/Syracuse** 

**Project Location:** Installer:

**New England Liner Systems** 

GTX #:

4827

**Test Date:** 

10/20/03

Report #:

Page:

2 of 4

Upper Geomembrane:

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

Seaming Method:

**Dual Hot-Wedge Weld** 

**Testing Machine:** Testing Speed:

Instron 1123

20in/min

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

Sample ID:

Machine ID:

**DS-21** 

**Date Sampled:** 

10/17/03

Seam:

72/74 22

Welder ID:

64

MO

			Peel St	rength			Shear Strength			
		Weld A			Weld B					
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination,	Failure Type	
1	67	***	FTB/SE1	66	÷	FTB/SE1	64		*	
2	70	<u></u> .	FTB/SE1	65		FTB/SE1	<b>6</b> 6		•	
3	70	<del></del>	FTB/SE1	63		FTB/SE1	64		*	
4	68		FTB/SE1	64		FTB/SE1	63	· 	•	
5	67		FTB/SE1	66		FTB/SE1	63		•	

Comments:

Average

68

Tested By:

**AHP** 

65

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

**Project Name: Project Location:**  GM/Syracuse

Installer:

**New England Liner Systems** 

GTX #:

4827

**Test Date:** 

10/20/03

Report #: Page:

3 of 4

**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

Seaming Method:

**Dual Hot-Wedge Weld** 

Testing Machine: Testing Speed:

Instron 1123

20in/min

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

Sample ID:

Seam:

**DS-22** 74/75

**Date Sampled:** Welder ID:

10/17/03

NO

Machine ID:

21

			Peel St	rength			Shear Strength			
	Weld A			Weld B			-			
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	
1	77	-	FTB/SE1	66	***	FTB/SE1	64		*	
2	79	•••	FTB/SE1	65		FTB/SE1	66		•	
3	77	***	FTB/SE1	64	***	FTB/SE1	66		*	
4	72		FTB/SE1	65		FTB/SE1	64	***	•	
5	70		FTB/SE1	66		FTB/SE1	64		•	
Average	75			65			65			

Comments:

Tested By:

**AHP** 

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

#### peel shear / seam destructive test

Client:

**New England Liner Systems** 

**GTX #:** 

4827

**Project Name:** 

GM/Syracuse

**Test Date:** 

10/20/03

**Project Location:** 

Report #:

4

Installer:

**New England Liner Systems** 

Page:

4 of 4

**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

**Seaming Method:** 

**Dual Hot-Wedge Weld** 

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

**Testing Speed:** 

Specimen Size:

1 in x 8 in

20in/min

Sample ID:

Seam:

**DS-23** 76/79

Date Sampled: Welder ID:

10/17/03 NO

Machine ID:

21

			Peel St	rength			Shear Strength			
		Weld A			Weld B					
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	.Failure Type	tb.∕in	Delamination, %	Failure Type	
1	76		FTB/SE1	67		FTB/SE1	65		•	
2	79	***	FTB/SE1	65		FTB/SE1	68		•	
3	76		FTB/SE1	64		FTB/SE1	67	<del></del> -	•	
4	67		FTB/SE1	65		FTB/SE1	64		•	
5	67		FTB/BRK	<b>6</b> 6		FTB/SE1	65		*	
Average	73	***		65			66			

Comments:

Tested By:

**AHP** 

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

## New England Liner Systems, Inc.

## Non Destructive Test Data

PROJECT: Former Landfill IRM
Former IFG Facility
GM - Syracuse, NY

PRODUCT:	40 Mil LLDPE

DATE	SEAM SEGMENT	TESTER INITIALS	PRESSU START	URE PSI END	TEST START	TIME END	PASS FAIL	V-BOX PASS	COMMENTS
<i>DATE</i> 03-Oct-03	1/2	RJ	30	30	10:00	10:05	PASS		EOS
03-Oct-03	2/3	RI	30	30	10:01	10:06	PASS		EOS
03-Oct-03	3/4	RJ	30	30	10:03	10:08	PASS		EOS
03-Oct-03	4/5	RJ	30	30	10:05	10:10	PASS		EOS
03-Oct-03	5/6	RJ	30	30	10:06	10:11	PASS		EOS
03-Oct-03	6/7	RJ	30	29	10:11	10:16	PASS		EOS
03-Oct-03	7/8	RJ	30	30	10:13	10:18	PASS		EOS
03-Oct-03	8/9	RJ	30	30	10:15	10:20	PASS		EOS
03-Oct-03	9/10	RJ	30	28	10:17	10:22	PASS		EOS
03-Oct-03	10/11	RJ	30	30	10:20	10:25	PASS		EOS
03-Oct-03	11/12	. RJ	30	30	10:26	10:31	PASS		EOS
03-Oct-03	12/13	RJ	30	29	10:28	10:33	PASS		EOS
03-Oct-03	13/14	RJ	30	30	10:30	10:35	PASS		EOS
03-Oct-03	14/15	RJ	30	30	10:32	10:37	PASS		· EOS
03-Oct-03	15/16	RJ.	30	30	10:35	10:40	PASS		EOS
03-Oct-03	16/17	RJ	30	28	10:38	10:43	PASS		EOS
03-Oct-03	17/18	RJ	30	30	10:40	10:45	PASS		EOS
03-Oct-03	18/19	RJ.	30	30	10:42	10:47	PASS		EOS
03-Oct-03	19/20	RJ.	30	30	10:45	10:50	PASS		EOS
03-Oct-03	20/21	RJ	30	30	10:46	10:51	PASS		EOS
03-Oct-03	21/22	RJ	30	30	10:52	10:57	PASS		EOS
03-Oct-03	22/23	RJ	30	27	10:55	11:00	PASS		EOS
03-Oct-03	23/24	RJ	30	30	10:58	11:03	PASS		EOS
03-Oct-03	24/25	RJ	30	27	11:10	11:15	PASS		EOS
03-Oct-03	25/26	RJ	30	28	11:15	11:20	PASS		EOS
03-Oct-03	12/39	RJ	30	30	4:32	4:37	PASS		EOS
03-Oct-03	13/39	RJ	30	30	4:29	4:34	PASS		EOS
03-Oct-03	14/39	RJ.	30	30	4:23	4:28	PASS		EOS
03-Oct-03	15/39	RJ	30	30	4:17	4:22	PASS		EOS
03-Oct-03	16/39	RJ	30	30	4:15	4:20	PASS		EOS
03-Oct-03	17/39	RJ	30	30	4:08	4:13	PASS		EOS
03-Oct-03	18/39	RJ.	30	30	4:07	4:12	PASS		EOS
03-Oct-03	19/39	RJ	30	30	4:01	4:06	PASS		SEOS to 5
03-Oct-03	19/39	RJ	30	30	3:38	3:43	PASS		5 to EOS
03-Oct-03	20/39	RJ	30	30	3:51	3:56	PASS		EOS
03-Oct-03	21/39	RJ						PASS	EOS
03-Oct-03	22/39	RJ	30	30	3:07	3:12	PASS		EOS
03-Oct-03	23/39	RJ.	30	30	3:04	3:09	PASS		EOS
03-Oct-03	23/40	RJ.	30	30	3:02	3:07	PASS		EOS
03-Oct-03	24/40	RJ.	30	30	2:55	3:00	PASS		EOS
03-Oct-03	25/40	RJ	30	30	2:54	2:59	PASS		EOS
03-Oct-03	39/40	RJ.	30	30	3:23	3:28	PASS		EOS
06-Oct-03	11/39	30	30	30	10:03	10:08	PASS		EOS
06-Oct-03	10/39	30	30	28	10:07	10:12	PASS		EOS_

## New England Liner Systems, Inc.

## Non Destructive Test Data

PROJECT: Former Landfill IRM
Former IFG Facility

GM - Syracuse, NY

PRODUCT: 40 Mil LLDPE

1	SEAM	TESTER		IRE PSI		TIME	PASS	V-BOX PASS	COMMENTS
DATE	SEGMENT	INITIALS	START	END	START	END_	FAIL	PASS	EOS
06-Oct-03	9/39	<u> </u>	30	29	10:10	10:15	PASS		EOS
06-Oct-03	8/39	<i>JO</i>	30	28	10:16	10:21	PASS		EOS
06-Oct-03	7/39	<i>JO</i>	30	29	10:21	10:26	PASS		EOS
06-Oct-03	6/39	<i>JO</i>	30	29	10:23	10:28	PASS		EOS
06-Oct-03	5/39	JO	30	30	10:27	10:32	PASS		EOS
06-Oct-03	4/39	ЈО	30	29	10:30	10:35	PASS		
06-Oct-03	3/39	30	30	30	10:33	10:38	PASS		NEOS to 11
06-Oct-03	3/39	30	30	30	10:36	10:41	PASS		11 to EOS
06-Oct-03	2/39	30	30	30	10:41	10:46	PASS		EOS
06-Oct-03	1/39	30	30	29	10:44	10:49	PASS		EOS
06-Oct-03	26/40	30	30	30	10:57	11:02	PASS		EOS
06-Oct-03	26/32	30	30	29	11:09	11:14	PASS		EOS
06-Oct-03	27/32	30						PASS	EOS
06-Oct-03	27/31	30	30	30	11:16	11:21	PASS		EOS
06-Oct-03	26/27	<i>JO</i>	30	30	11:09	11:14	PASS		EOS
06-Oct-03	27/28	<i>J0</i>	30	30	11:23	11:28	PASS		EOS
06-Oct-03	28/31	JO	30	30	11:23	11:28	PASS		EOS
06-Oct-03	28/29	JO	30	30	11:32	11:37	PASS		EOS
06-Oct-03	29/38	30	30	29	11:35	11:40	PASS		EOS
06-Oct-03	31/32	30	30	30	11:16	11:21	PASS		EOS
06-Oct-03	32/40	30	30	30	10:57	11:02	PASS		WEOS to 9
06-Oct-03	32/40	30	30	30	11:03	11:08	PASS		9 to EOS
06-Oct-03	32/33	30	30	29	11:47	11:52	PASS		EOS
06-Oct-03	33/41	30	30	29	11:03	11:08	PASS		EOS
06-Oct-03	33/34	30	30	29	11:47	11:52	PASS	<u> </u>	EOS
06-Oct-03	34/42	30	30	30	11:56	12:01	PASS		EOS
06-Oct-03	34/35	30	30	30	11:55	12:00	PASS		EOS
06-Oct-03	35/44	<i>JO</i>	30	29	1:00	1:05	PASS	<u> </u>	EOS
06-Oct-03	35/36	JO	30	30	12:55	1:00	PASS		EOS
06-Oct-03	36/46	30	30	29	1:06	1:11	PASS	<u> </u>	EOS
06-Oct-03	36/37	30	30	30	4:55	5:00	PASS		EOS
06-Oct-03	40/41	30	30	28	4:03	4:08	PASS		527 to EO
06-Oct-03	41/42	30	30	30	4:06	4:11	PASS		330 to EOS
06-Oct-03	42/44	30	30	29	4:40	4:45	PASS	1	330 to EO:
06-Oct-03	44/46	30	30	30	4:54	4:59	PASS		521 to EO:
07-Oct-03	39/41	<i>JO</i>	30	30	7:02	7:07	PASS		SEOS to 18
07-Oct-03	39/41	30	30	30	7:03	7:08	PASS	l	188 to 38
07-Oct-03	39/41	10	30	30	7:10	7:15	PASS		389 to 498
07-0ct-03	39/41	30	30	29	7:12	7:17	PASS		498 to 51
07-0ct-03	40/41	30	30	30	9:27	9:32	PASS		510 to 52.
07-0ct-03	41/43	30	30	30	7:21	7:26	PASS		SEOS to 32
	41/43	30	30	29	7:16	7:21	PASS		323 to 33
07-Oct-03	42/43	30	30	30	7:15	7:20	PASS		EOS
07-Oct-03 07-Oct-03	43/45	30	30	30	7:22	7:27	PASS	T	SEOS to 2

## Non Destructive Test Data

PROJECT: Former Landfill IRM Former IFG Facility

GM - Syracuse, NY

PRODUCT: 40 Mil LLDPE

İ	SEAM	TESTER		URE PSI		TIME	PASS	V-BOX PASS	COMMENTS
DATE	SEGMENT	INITIALS	START	END	START	END	FAIL	PASS	20 to 29
07-Oct-03	43/45	<i>JO</i>	30	29	7:24	7:29	PASS		EOS
07-Oct-03	44/45	<i>JO</i>	30	29	7:25	7:30	PASS		29 to 47
07-Oct-03	43/44		30	30	7:39	7:44	PASS		47 to 156
07-Oct-03	43/44	30	30	30	7:41	7:46	PA5S		
07-Oct-03	43/44	30	30	30	7:48	7:53	PASS		156 to 175
07-Oct-03	43/44	ЈО	30	30	7:48	7:53	PASS		175 to 248
07-Oct-03	43/44	30	30	30	7:57	8:02	PASS		248 to 330
07-Oct-03	45/46	30	30	30	8:33	8:38	PASS		SEOS to 29
07-Oct-03	44/46	JO	30	29	8:33	8:38	PASS		29 to 78
07-Oct-03	44/46	30	30	29	8:28	8:33	PASS		78 to 139
07-Oct-03	44/46		30	30	8:27	8:32	PASS		139 to 159
07-Oct-03	44/46	30	30	29	8:12	8:17	PASS		159 to 166
07-Oct-03	44/46	30	30	29	8:03	8:08	PASS		166 to 521
07-Oct-03	46/53	30_	30	30	8:43	8:48	PASS		SEOS to 22
07-Oct-03	46/53	<i>JO</i>	_30	30	8:43	8:48	PASS		22 to 48
07-Oct-03	46/53	30	30	30	8:49	8:54	PASS		48 to 115
07-Oct-03	46/53	30	30	29	8:49	8:54	PASS		115 to 134
07-Oct-03	46/53	<i>J0</i>	30	29	8:59	9:04	PASS	ļ	134 to 276
07-Oct-03	46/52	<i>J0</i>	30	30	9:02	9:07	PASS		276 to 472
07-Oct-03	46/52	30	30	30	5:19	5:24	PASS		472 to EOS
07-Oct-03	52/53	30	30	29	9:08	9:13	PASS		weos to 8
07-Oct-03	52/53	30	30	29	9:11	9:16	PASS		8 to 17
07-Oct-03	52/53	30	30	29	9:14	9:19	PASS	ļ	17 to EOS
07-Oct-03	53/54	30	30	30	11:32	11:37	PASS	<u> </u>	SEOS to 27
07-Oct-03	52/54	30	30	30	11:29	11:34	PASS		276 to 334
07-Oct-03	52/54	30	30	28	1:42	1:47	PASS	<u> </u>	334 to 376
07-Oct-03	52/54	30	30	29	1:40	1:45	PASS	<u> </u>	376 to 392
07-Oct-03	52/54	30	30	30	1:27	1:32	PASS		392 to 446
07-Oct-03	52/54	JO				<u> </u>		PASS	446 to 482
07-Oct-03	52/54	30	30	30	1:03	1:08	PASS	ļ	482 to 507
07-Oct-03	52/54	30	30	29	11:54	11:59	PASS	<u> </u>	507 to 514
07-Oct-03	52/54	<i>J0</i>	30	29	11:46	11:51	PASS		514 to EOS
07-Oct-03	37/52	<i>J0</i>						PASS	WEOS to 1.
07-Oct-03	37/52	30	30	29	1:53	1:58	PASS	<u> </u>	11 to EOS
07-Oct-03	48/54	30	30	30	2:02	2:07	PASS		WEOS to 9
07-Oct-03	48/54	30	30	29	2:02	2:07	PASS		9 to EOS
07-Oct-03	49/55	30	30	29	2:32	2:37	PASS		EOS
07-Oct-03	37/47	30	30	29	2:12	2:17	PASS		NEOS to 4
07-Oct-03	37/48	<i>JO</i>	30	29	2:08	2:13	PASS		48 to EOS
07-Oct-03	47/48	30	30	28	2:12	2:17	PASS		EOS
	47/49	30	30	30	2:19	2:24	PASS		NEOS to 4
07-Oct-03	48/49	30	30	29	2:20	2:25	PASS		48 to EOS
07-Oct-03	54/56	30	30	29	3:09	3:14	PASS		SEOS to 5
07-Oct-03 07-Oct-03	54/56	30	30	29	3:00	3:05	PASS	1	58 to 325

## Non Destructive Test Data

PROJECT: Former Landfill IRM Former IFG Facility

GM - Syracuse, NY

PRODUCT: 40 Mil LLDPE

1	SEAM	TESTER		IRE PSI END	TEST START	TIME   END	PASS FAIL	V-BOX PASS	COMMENTS
DATE	SEGMENT	INITIALS	START	30	2:46	2:51	PASS		325 to 482
07-Oct-03	54/56	JO	30	30	2:42	2:47	PAS5		482 to 506
07-Oct-03	54/56	<i>JO</i>	30	30	2:27	2:32	PASS		506 to EOS
07-Oct-03	54/55	<i>JO</i>	30	30	2:27	2:32	PASS		EOS
07-Oct-03	55/56	<u> </u>	30		3:14	3:19	PASS		SEOS to 125
07-Oct-03	56/58	JO	30	30	3:23	3:28	PASS		125 to 193
07-Oct-03	56/58	30	30	29		3:33	PASS		193 to 248
07-Oct-03	56/57	30	30	30	3:28	3:35	PASS		248 to 482
07-Oct-03	56/57	30	30	28	3:30	3:54	PASS		482 to 506
07-Oct-03	56/57	30	30	28	3:49		PASS		506 to EOS
07-Oct-03	55/57	JO	30	30	3:55	4:00	PASS		SEOS to 15
08-Oct-03	58/62	јо	30	30	10:14	10:19			"15 to 146
08-Oct-03	58/62	JO	30	30	10:17	10:22	PASS		146 to 193
08-Oct-03	58/62		30	30	10:23	10:28	PASS		193 to 227
08-Oct-03	<i>57/62</i>	JO	30	30	10:04	10:09	PASS		227 to 265
08-Oct-03	57/62	30	30	29	9:58	10:03	PASS		265 to 304
08-Oct-03	57/62	30	30	28	9:57	10:02	PASS		304 to 343
08-Oct-03	57/62	<i>JO</i>	30	- 29	9:26	9:31	PASS		
08-Oct-03	57/62	<i>JO</i>	30	28	9:24	9:29	PASS		343 to 387
08-Oct-03	57/62	<i>JO</i>	30	29	9:18	9:23	PASS		387 to 413
07-Oct-03	57/62	JO	30	30	5:19	5:24	PASS		413 to 447
07-Oct-03	57/62	<i>J0</i>	30	29	4:15	4:20	PASS		447 to EOS
07-Oct-03	49/50	<i>J0</i>	30	28	4:13	4:18	PASS	<u> </u>	NEOS to 6.
07-Oct-03	49/50	30	30	29	4:06	4:11	PASS		67 to EOS
07-Oct-03	50/57	30	30	28	4:03	4:08	PASS		EOS
07-Oct-03	51/62	30	30	30	4:56	5:01	PASS	<u> </u>	EOS
08-Oct-03	50/51	30	30	29	7:01	7:06	PASS	<u> </u>	EOS
08-Oct-03	51/59	30	30	30	7:03	7:08	PASS	<u> </u>	EOS
08-Oct-03	59/63	30	30	29	7:06	7:11	PASS		EOS
08-Oct-03	59/60	30	30	30	8:00	8:05	PASS		EOS
	60/65	30	30	30	8:26	8:31	PASS	<u> </u>	EOS
08-Oct-03	61/65	30						PASS	EOS
08-Oct-03	61/67	30	30	30	8:33	8:38	PASS		EOS
08-Oct-03	62/64	30	30	29	10:34	10:39	PASS		SEO5 to 4
08-Oct-03	62/64	30	30	30	10:40	10:45	PAȘS		49 to 178
08-Oct-03	62/64	10	30	29	10:42	10:47	PA5S		178 to 39
08-Oct-03	62/63	30	30	29	10:59	11:04	PASS		390 to 44
08-Oct-03		30	30	29	11:13	11:18	PASS		449 to EC
08-Oct-03	62/63	30	+					PAS5	WEOS to
08-Oct-03	63/64	30	30	30	11:01	11:06	PASS		11 to EO
08-Oct-03	63/64	30	30	30	12:55	1:00	PAS5		SEOS to
08-Oct-03	64/66		1 30	+ -50	1 -2.55	<del>                                     </del>	1	PASS	45 to 5.
08-Oct-03	64/65	JO 10	30	29	11:45	11:50	PA5S		51 to 50
08-Oct-03	64/65	JO 10		29	12:48	12:53	PASS	1	56 to 14
08-Oct-03	64/65	JO 10	30		12:50	12:55	PASS		148 to 2
08-Oct-03	64/65		30	30_	12.30	1 12.33	1	_1	

### Non Destructive Test Data

PROJECT: Former Landfill IRM

Former IFG Facility GM - Syracuse, NY PRODUCT: 40 Mil LLDPE

DATE	SEAM SEGMENT	TESTER INITIALS	PRESSU START	JRE PSI END	TEST START	TIME END	PASS FAIL	V-BOX PASS	COMMENTS
DATE 00 Oct 03	64/65	30	30	30	11:54	11:59	PASS		245 to 390
08-Oct-03	64/65	30	30	30	11:24	11:29	PASS		390 to 487
08-Oct-03	64/65	30	30	30	8:19	8:24	PASS		487 to EOS
	60/61	30	30	30	8:37	8:42	PASS		EOS
08-Oct-03	65/66	30	30	30	12:57	1:02	PASS		WEOS to 18
08-Oct-03	65/66	30	30					PASS	18 to EOS
08-Oct-03	65/67	30	30	30	1:09	1:14	PASS		SEOS to 231
08-Oct-03		30	30	30	1:05	1:10	PASS		231 to 427
08-Oct-03	65/67 65/67	30	. 30	. 30	8:45	8:50	PASS		427 to EOS
08-Oct-03		30	30	30	9:04	9:09	PASS		EOS
17-Oct-03	61/68	10	30	30	9:10	9:15	PASS		NEOS to 62
17-Oct-03	68/69	10	30	30	9:19	9:24	PASS		62 to EOS
17-Oct-03	68/70	30	30	30	9:19	9:24	PASS		WEOS to 15
17-Oct-03	69/70	30	30	28	9:27	9:32	PASS		15 to EOS
17-Oct-03	69/70	10	30	29	9:27	9:32	PASS		NEOS to 62
17-Oct-03	69/71	10	30	29	9:34	9:39	PASS		62 to EOS
17-Oct-03	70/71	30	30	28	10:35	10:40	PASS		SEOS to 56
17-Oct-03	67/73	30	30	30	10:26	10:31	PASS		56 to EOS
17-Oct-03	67/72		30	. 29	10:32	10:37	PASS		EOS
17-Oct-03	72/73	<u> </u>	30	30	10:58	11:03	PASS		SEOS to 10
17-Oct-03	73/74	<i>JO</i>		30	10:56	11:01	PASS	<b></b>	10 to 66
17-Oct-03	72/74	JO	30	30	10:51	10:56	PASS		66 to 72
17-Oct-03	72/74	JO	30	29	10:50	10:55	PASS		72 to 83
17-Oct-03	72/74	<u> </u>	30	29	10:44	10:49	PASS		83 to 201
17-Oct-03	72/74	JO	30	30	10:42	10:47	PASS		201 to EOS
17-Oct-03	72/74	JO 10	30		<del> </del>	11:37	PASS		EOS
17-Oct-03	67/68	<u> </u>	30	30	11:32	11.57	77.55	PASS	WEOS to 3
17-Oct-03	68/72	<u> </u>	30	29	11:33	11:38	PASS	17,00	3 to EOS
17-Oct-03	68/72	<u> </u>	30	30	11:40	11:45	PASS	<b> </b>	EOS
17-Oct-03	70/72	30	30	28	11:40	11:45	PASS	<del> </del>	EOS
17-Oct-03	70/74	30	30	30	1:00	1:05	PASS	t	SEOS to 187
17-Oct-03	74/75	30	30	30	12:00	12:05	PASS	╁──┈	187 to EOS
17-Oct-03	74/75	10	30	1 30	12.00	12.05	17.55	PASS	EOS
17-Oct-03	71/74		30	29	1:25	1:30	PASS	1	EOS
17-Oct-03	71/75	<u> </u>	30	30	2:27	2:32	PASS	<del>                                     </del>	SEOS to 26
17-Oct-03	75/78	<u> </u>		-	2:21	2:26	PASS	<del>                                     </del>	26 to 45
17-Oct-03	75/78	<u> </u>	30	30	2:21	2:26	PASS	1	EOS
17-Oct-03	77/78	JO 10	30	<i>30</i> <i>30</i>	2:04	2:09	PASS	<del>                                     </del>	45 to 113
17-Oct-03	75/77	<i>JO</i>	30			1:42	PASS		113 to 166
17-Oct-03	75/77	<u> </u>	30	30	1:37	1:39	PASS	<del> </del>	166 to 247
17-Oct-03	75/76	<u> </u>	30	30	1:34	+	PASS	<del> </del>	247 to 258
17-Oct-03	75/76	<u> </u>	30	30	1:30	1:35		<del> </del>	258 to EOS
17-Oct-03	75/76	30	30	30	1:24	1:29	PASS	<del>                                     </del>	EOS
17-Oct-03	76/77		30	30	2:01	2:06	PASS	<del>                                     </del>	SEOS to 11
17-Oct-03	77/79	JO	30	30	2:30	2:35	PASS		3203 10 11

## Non Destructive Test Data

PROJECT: Former Landfill IRM

Former IFG Facility GM - Syracuse, NY PRODUCT:

	SEAM	TESTER INITIALS	PRESSU START	IRE PSI END	TEST START	TIME END	PASS FAIL	V-BOX PASS	COMMENTS
DATE	SEGMENT 77.770	JO	30	30	2:34	2:39	PASS		11 to 121
17-Oct-03	77/79		30	29	2:38	2:43	PASS		121 to 160
17-Oct-03	76/79	JO			2:45	2:50	PASS		160 to 168
17-Oct-03	76/79	JO	30	30			PASS		168 to EOS
17-Oct-03	76/79	JO	30	30	2:47	2:52	PASS		100 10 200

PROJECT: Former Landfill IRM Former IFG Facility

GM - Syracuse, NY

	SEAM	TESTER	PRESSU	RE - PSI	TEST	TIME	PASS	V-BOX	COMMENT
DATE		INITIALS	START	END	START	END	FAIL	PASS	
25-Oct-04	1/2	DX	25	25	10:37	10:42	PASS	PASS	
25-Oct-04 ·	2/3	DX	25	25	10:39	10,44	PASS	PASS	
25-0ct-04	3/4	DX	25	25	10:53	10:58	PASS	PASS	
25-0ct-04	3/4	DX	25	25	10:54	10:59	PASS	PASS	
26-Oct-04	4/5	DX	25	25	8:06	8;11	PASS	PASS	
26-Oct-04	5/6	DX	25	25	8:07	8:12	PASS	PASS	
26-Oct-04	6/7	DX	25	25	8:14	8:19	PASS	PASS	
26-Oct-04	7/8	DX	25	25	11;09	11:14	PASS	PASS	
26-Oct-04	7/8	DX	25	25	11:08	11:13	PASS	PASS	
26-Oct-04	7/8	DX	25	25	1:07	1:12	PASS	PASS	
26-Oct-04	8/9	DX	25	25	11;15	11:20	PASS	PASS	
26-Oct-04	9/14	DX	25	25	11:16	11:21	PASS	PASS	
26-Oct-04	9/10	DX	25	25	11:17	11:22	PASS	PASS	
26-Oct-04	9/10	DX	25	25	12:46	12:51	PASS	PASS	
26-Oct-04	9/10	DX	25	25	1:00	1:05	PASS	PASS	
26-Oct-04	9/19	DX	25	25	1:30	1:35	PASS	PASS .	
26-Oct-04	9/20	DX	25	25	1:45	1:50	PASS	PASS	
26-Oct-04	19/20	DX	25	25	1:36	1:41	PASS	PASS	
26-Oct-04	20/21	DX	25	25	1:37	1:42	PASS	PASS	
26-Oct-04	19/21	DX	25	24	1:29	1:34	PASS	PASS	
26-Oct-04	11/21	DX	25	24	1;25	1;30	PASS	PASS	
26-Oct-04	10/11	DX	25	25	1:07	1:12	PASS	PASS	
26-Oct-04	10/11	DX	25	25	12:40	12:45	PASS	PASS	
26-0ct-04	14/15	DX	25	25	12:36	12:41	PASS	PASS	
26-Oct-04	11/15	DX	25	25	12:35	12:40	PASS	PASS	
26-Oct-04	15/16	DX	25	24	1:50	1:55	PASS	PASS	
26-0ct-04	16/12	DX	25	24	1:53	1:58	PASS	PASS	
26-0ct-04	11/12	DX	25	24	2:08	2:13	PASS	PASS	
26-Oct-04	11/22	DX	25	25	2:14	2:19	PASS	PASS	
26-0ct-04	12/22	DX	25	25	2:07	2:12	PASS	PASS	
26-0ct-04	22/21	DX	25	25	2:15	2:20	PASS	PASS	
26-Oct-04	22/23	DX	25	24	3:20	3:25	PASS	PASS	
26-0ct-04	23/13	DX	25	24	3:21	3:26	PASS	PASS	
26-0ct-04	12/13	DX	25	25	3:30	3:35	PASS	PASS	
26-Oct-04	12/17	DX	25	25	3:42	3:47	PASS	PASS	
	16/17	DX	25	24	3:51	3:56	PASS	PASS	
26-Oct-04 26-Oct-04	13/17	DX	25	25	3:47	3:52	PASS	PASS	
	17/18	DX	25	25	3:46	3:51	PASS	PASS	
26-Oct-04 26-Oct-04	18/23	DX	25	25	3:40	3:45	PASS	PASS	

## New England Liner Systems, Inc. Destructive Test Log

PROJECT: Former Landfill IRM Former IFG Facility GM - Syracuse, NY PRODUCT:

				ı	TEST		TEST	RESULTS I	N LBS / IN		PASS
1	SAMPLE	SEAM	MACHINE	SEAMER	MODE			1PLE NUMB		_	FAÏL
DATE	ID#	NUMBER	NUMBER	INITIALS		1	2	3	4	5	PASS
06-Oct-03	1	16/17	21	NO	PEEL	92/90	90/91	94/91	91/90	/	PASS PASS
		-			SHEAR	91	94	93	90		PASS PASS
06-Oct-03	2	31/32	21	NO	PEEL	77/82	74/70	80/75	69/73		
					SHEAR	81	79	76	82		PASS
06-Oct-03	3	36/37	22	MO	PEEL	79/85	74/74	70/71	69/74		PASS
50 500 55		·	1		SHEAR	79	76	<i>77</i>	77	81	PASS
06-Oct-03	4	22/39	21	NO	PEEL	84/81	90/84	84/77	89/85		PASS
00 000 00	·				SHEAR	86	87	90	87	88	PASS
06-Oct-03	5	39/41	22	MO	PEEL	67/69	66/68	70/69	69/74	68/68	PASS
00 000 00					SHEAR	76	74	74	70	71	PASS
06-Oct-03	6	41/43	22	MO	PEEL	70/68	71/69	68/75	74/75		PASS
00 001 00	Ĭ	,		1	SHEAR	80	76	69	74	75	PASS
06-Oct-03	7	43/44	21	NO	PEEL	69/69	67/66	70/69	71/68	64/69	PASS
00 000 00	<b>.</b>			1 .	SHEAR	69	71	67	68	70	PASS
06-Oct-03	8	44/46	22	MO	PEEL	64/67	66/69	68/71	71/71	74/67	PASS
00 000 00	Ì			ļ	SHEAR	71	74	70	69	74	PASS
06-Oct-03	9	46/53	21	NO	PEEL	69/71	71/73	74/68	70/71	71/67	PASS
00-00200		1,			SHEAR	68	69	70	70	67	PASS
07-Oct-03	10	52/54	21	NO	PEEL.	65/66	69/69	68/70	67/66	68/70	PASS
<i>07-000</i>	1	1 32,31			SHEAR	76	80	71	67	68	PASS
07-Oct-03	11	54/55	21	NO	PEEL	67/67	69/70	71/76	69/68	71/73	PASS
07-001-03	1 **	1 2,755			SHEAR	69	73	70	68	69	PASS
07-Oct-03	12	50/51	21	NO	PEEL	77/74	71/76	69/74	74/71	69/74	PASS
07-001-03	12	30/32		1	SHEAR	71	67	71	68	73	PASS
07-Oct-03	13	56/57	21	NO	PEEL	69/66	69/67	70/70	65/66	71/69	PASS
07-001-03	13	] 30,37		1	SHEAR	70	70	71	68	69	PASS
08-Oct-03	14	59/60	21	NO	PEEL	70/70	66/69	71/69	68/70	70/67	PASS
00-001-03	1 27	35,00			SHEAR	74	71	71	<i>75</i>	76	PASS
08-Oct-03	15	58/62	21	NO	PEEL	61/62	64/66	66/70	70/67	69/68	PASS
00-001-03	1 13	30,02			SHEAR	72	70	69	69	71	PASS
08-Oct-03	16	62/64	21	NO	PEEL	59/61	66/65	67/67	69/67	68/66	PASS
00-001-03	10	02/07		"	SHEAR	67	70	73	71	67	PASS
08-Oct-03	17	62/63	21	NO	PEEL	60/58	64/66	65/67	66/64	67/69	PASS
UO-UCI-US		02/03			SHEAR	66	67	68	67	65	PASS
08-Oct-03	18	63/65	21	NO	PEEL	60/61	64/65	64/64	66/65	65/64	PASS
00-00:03	10	03/03		1	SHEAR	66	67	65	65	68	PASS
08-Oct-03	19	65/67	22	MO	PEEL	60/59	61/64	64/65	66/64	61/63	PASS
00-061-03	' 13	1 03/0/			SHEAR	66	69	67	67	66	PASS
17 Oct 03	3 20	67/72	21	NO	PEEL	75/77	74/73	69/74	71/75	76/75	PASS
17-Oct-03	20	07/72		"	SHEAR	81	83	79	77	77	PASS
17 Oct 0	3 21	72/74	22	MO	PEEL	71/75	73/74	74/72	69/74	69/69	PASS
17-Oct-03	21	12/17	~~	1	SHEAR	74	71	74	76	69	PASS
17.000	3 22	74/75	21	NO	PEEL	72/74		77/76	71/76	72/73	
17-Oct-03	22	17/13	-	"	SHEAR	76	81	77	76	79	PASS
17.0+0	3 23	76/79	21	NO	PEEL	73/75				73/74	PASS
17-Oct-03	23	10/19		"	SHEAR	76	74	79	73	76	PASS
					1 2.12.1						

#### Destructive Test Log New England Liner Systems, Inc.

PROJECT: Former Landfill IRM

Former IFG Facility GM - Syracuse, NY

PRODUCT:

					TEST		TES	T RESULTS	IN LBS / IN		PASS
	SAMPLE	SEAM	MACHINE	SEAMER	MODE		SA	MPLE NUME			FAIL
DATE	ID#	NUMBER	NUMBER	INITTALS		1	2	3	4	5	
					PEEL	85/86	86/90	78/80	91/84	86/90	
10/25/2004	1	4/5	438	GG	SHEAR	90	72	84	92	71	
					PEEL	86/81/	90/84	79/81	71/73	84/86	
10/26/2004	2	8/9	438	GG	SHEAR	80	74	74	<i>75</i>	89	
					PEEL	86/86	91/90	70/73	84/81	84/78	
10/26/2004	3	10/11	438	GG	SHEAR	82	80	83	81	79	
					PEEL	64/78	80/82	83/82	91/90	76/74	
10/26/2004	4	11 / 12	438	GG	SHEAR	84	<i>78</i>	80	91	73	
					PEEL	65/71	72/72	81/89	78/77	77/75	
10/26/2004	5	21/22	438	GG	SHEAR	<i>78</i>	88	79	<i>79</i>	83	
					PEEL	71/72	81/80	69/73	79/79	83/85	
10/26/2004	6	17/18	438	GG	SHEAR	71	<i>80</i>	74	81	84	
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			<del>                                     </del>		PEEL	İ				T	<u> </u>
			'		SHEAR	<del> </del>	<u> </u>				
	<u> </u>	<del>                                     </del>	<del>                                     </del>	<b> </b>	PEEL						
	}				SHEAR						
	<del> </del>	<u> </u>	<del> </del>	<del> </del>	PEEL		<del></del>				
					SHEAR					1	
	<del> </del>		<del> </del>		PEEL			<del>                                     </del>			<b>†</b>
•			1		SHEAR	<del>                                     </del>	-			<u> </u>	1
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## Repair Report

PRODUCT:

40 Mil LLDPE

PROJECT:

Former Landfill IRM Former IFG Facility GM - Syracuse, NY

Repair	Seam	Panel	Repair	Machine	V-Box Test	
Date	Number	Numbers	Crew	Number	Pass/Fail	Location Comments
73-Oct-03	16,17/39		NO	DT-1	Pass	Tie in
03-Oct-03	16/17		NO	DT-1	Pass	DS-1 33 to WEOS
03-Oct-03	17,18/39		NO	DT-1	Pass	Tie in
03-Oct-03	18,19/39		NO	DT-1	Pass	Tie in
03-Oct-03	19/39		NO	DT-1	Pass	Tie in, Boot
03-Oct-03	19,20/39		NO	DT-1	Pass	Tie in
03-Oct-03	20,21/39		NO	DT-1	Pass	Tie in
03-Oct-03	21,22/39		NO	DT-1	Pass	Tie in
03-Oct-03	22/39		NO	DT-1	Pass	DS-4 Tie in
03-Oct-03	22,23/39		NO	DT-1	Pass	Tie in
03-Oct-03	23/39,40		NO	DT-1	Pass	Tie in
03-Oct-03	23,24/40		NO	DT-1	Pass	Tie in
03-Oct-03	24,25/40		NO	DT-1	Pass	Tie in
06-Oct-03	1,2/39		RR	DT-1	Pass	Tie in
06-Oct-03	2,3/39		RR	DT-1	Pass	Tie in
06-Oct-03	3/39		RR	DT-1	Pass	Tie in
	3,4/39		RR	DT-1	Pass	Tie in
06-Oct-03	4,5/39		RR	DT-1	Pass	Tie in
06-Oct-03 06-Oct-03	5,6/39		RR	DT-1	Pass	Tie in
	6,7/39		RR	DT-1	Pass	Tie in
06-Oct-03	7,8/39		RR	DT-1	Pass	Tie in
06-Oct-03	8,9/39		RR	DT-1	Pass	Tie in
06-Oct-03	9,10/39		RR	DT-1	Pass	Tie in
06-Oct-03	10,11/39		RR	DT-1	Pass	Tie in
06-Oct-03	11,12/39		RR	DT-1	Pass	Tie in
06-Oct-03	12,13/39		RR	DT-1	Pass	Tie in
06-Oct-03	13,14/39		RR	DT-1	Pass	Tie in
06-Oct-03	14,15/39		RR	DT-1	Pass	Tie in
06-Oct-03	15,16/39		RR	DT-1	Pass	Tie in
06-Oct-03	25,26/40		RR	DT-1	Pass	Tie in
06-Oct-03	26/40,32		RR	DT-1	Pass	Tie in
06-Oct-03	26,27/32		RR	DT-1	Pass	Tie in
06-Oct-03	27/31,32		RR	DT-1	Pass	Tie in
06-Oct-03	27,28/31		RR	DT-1	Pass	Tie in
06-Oct-03	28,29/31		RR	DT-1	Pass	Tie in
06-Oct-03	31/32		RR	DT-1	Pass	DS-2 71 to NEOS
06-Oct-03	32/ <del>4</del> 0		RR	DT-1	Pass	Tie in
06-Oct-03	32,33/40,41	<del></del>	RR	DT-1	Pass	Tie in
06-Oct-03	33,34/41,42		RR	DT-1	Pass	Tie in
06-Oct-03			RR	DT-1	Pass	Tie in
06-Oct-03	34,35/42,44		RR	DT-1	Pass	Tie in
06-Oct-03 07-Oct-03	35,36/44,46 39/41		RR	DT-1	Pass	188 to SEOS

## Repair Report

PRODUCT:

40 Mil LLDPE

PROJECT: Former Landfill IRM

Former IFG Facility GM - Syracuse, NY

Repair	Seam	Panel	Repair	Machine	V-Box Test	Location Comments
Date	Number	Numbers	Crew	Number	Pass/Fail	DS-5 389 to SEOS
07-Oct-03	39/41		RR	DT-1	Pass	498 to SEOS
07-Oct-03	39/41		RR	DT-1	Pass	510 to SEOS
07-Oct-03	39,40/41		RR	DT-1	Pass	527 to SEOS
07-Oct-03	40/41		RR	DT-1	Pass	DS-6 323 to SEOS
07-Oct-03	41/43		RR	DT-1	Pass	330 to SEOS
07-Oct-03	41/42,43		RR	DT-1	Pass	Boot, 20 to SEOS
07-Oct-03	43/45		RR	DT-1	Pass	29 to SEOS
07-Oct-03	43/44,45		RR	DT-1	Pass	47 to SEOS
07-Oct-03	43/44		RR	DT-1	Pass	156 to SEOS
07-Oct-03	43/44		RR	DT-1	Pass	175 to SEOS
07-Oct-03	43/44		RR	DT-1	Pass	DS-7 248 to SEOS
07-Oct-03	43/44		RR	DT-1	Pass	330 to SEOS
07-Oct-03	42,43/44		RR	DT-1	Pass	29 to SEOS
07-Oct-03	44,45/46		RR	DT-1	Pass	139 to SEOS
07-Oct-03	44/46		RR	DT-1	, Pass	159 to SEOS
07-Oct-03	44/46		RR	DT-1	Pass	DS-8 166 to SEOS
07-Oct-03	44/46		RR	DT-1	Pass	
07-Oct-03	.,,	46	RR	DT-1	Pass	97 to SEOLiner
07-Oct-03		46	RR	DT-1	Pass	104 to SEOLiner
07-Oct-03	46/53		RR	DT-1	Pass	Boot, 22 to SEOS
07-Oct-03	46/53		RR	DT-1	Pass	48 to SEOS
07-Oct-03	46/53		RR	DT-1	Pass	Boot, 115 to SEOS
07-Oct-03	46/53		RR	DT-1	Pass	DS-9 134 to SEOS
	46/52,53		RR	DT-1	Pass	276 to SEOS
07-Oct-03	46/52		RR	DT-1	Pass	Boot, 472 to SEOS
07-Oct-03	52/53		RR	DT-1	Pass	8 to WEOS, CS
07-Oct-03	52/53 52/53		RR	DT-1	Pass	17 to WEOS, CS
07-Oct-03	52,53/54		RR	DT-1	Pass	276 to SEOS
07-Oct-03	52/54		RR	DT-1	Pass	334 to SEOS
07-Oct-03	52/54		RR	DT-1	Pass	376 to SEOS
07-Oct-03	52/54		RR	DT-1	Pass	392 to SEOS
07-Oct-03	52/54 52/54		RR	DT-1	Pass	446 to SEOS
07-Oct-03	52/54		RR	DT-1	Pass	481 to SEOS
07-Oct-03	52/54 52/54		RR	DT-1	Pass	DS-10 497 to SEOS
07-Oct-03			RR	DT-1	Pass	507 to SEOS
07-Oct-03	<i>52/54</i>		RR	DT-1	Pass	514 to SEOS
07-Oct-03	<i>52/54</i>		RR	DT-1	Pass	DS-3 52 to NEOS
07-Oct-03	36/37		RR	DT-1	Pass	Tie in
07-Oct-03	36,37/46,52		RR	DT-1	Pass	Tie in, 7 to WEOS
07-Oct-03	37/52		RR	DT-1	Pass	Tie in, 11 to WEOS
07-Oct-03	37/52		RR	DT-1	Pass	Tie in
07-Oct-03	37,48/52,54		RR	DT-1	Pass	48 to NEOS
07-Oct-03	37/47,48			1 01-1		

### Repair Report

PRODUCT:

40 Mil LLDPE

PROJECT: I

Former Landfill IRM Former IFG Facility GM - Syracuse, NY

Repair	Seam	Panel	Repair	Machine	V-Box Test	
Date	Number	Numbers	Crew	Number	Pass/Fail	Location Comments
07-Oct-03	47,48/49		RR	DT-1	Pass	48 to NEOS
07-Oct-03	<i>54/56</i>		RR	DT-1	Pass	Boot, 58 to SEOS
07-Oct-03	<i>54/56</i>		RR	DT-1	Pass	325 to SEOS
07-Oct-03	<i>54/56</i>		RR	DT-1	Pass	482 to SEOS
07-Oct-03	54/55,56		RR	DT-1	Pass	506 to SEOS
07-Oct-03	54/55		RR	DT-1	Pass	DS-11 530 to SEOS
07-Oct-03	48/54		RR	DT-1	Pass	9 to WEOS Tie in
07-Oct-03	48,49/54,55		RR	DT-1	Pass	Tie in
07-Oct-03	56/58	39	RR	DT-1	Pass	125 to SEOS
07-Oct-03	56/57,58		RR	DT-1	Pass	193 to SEOS
07-Oct-03	56/57		RR	DT-1	Pass	248 to SEOS
07-Oct-03	56/57		RR	DT-1	Pass	482 to SEOS
07-Oct-03	56/57		RR	DT-1	Pass	DS-13 496 to SEOS
07-Oct-03	55,56/57		RR	DT-1	Pass	506 to SEOS
07-Oct-03	49,50/55,57		RR	DT-1	Pass	Tie in
07-Oct-03	49/50		RR	DT-1	Pass	67 to NEOS
08-Oct-03	58/62		RR	DT-1	Pass	DS-15 8 to SEOS
08-Oct-03	58/62		RR	DT-1	Pass	15 to SEOS
08-Oct-03	58/62		RR	DT-1	Pass	146 to SEOS
08-Oct-03	57,58/62		RR	DT-1	Pass	193 to SEOS
08-Oct-03	57/62		RR	DT-1	Pass	227 to SEOS
08-Oct-03	57/62		RR	DT-1	Pass	265 to SEOS
08-Oct-03	57/62		RR	DT-1	Pass	304 to SEOS
08-Oct-03	57/62		RR	DT-1	Pass	343 to SEOS
08-Oct-03	57/62		RR	DT-1	Pass	387 to SEOS
08-Oct-03	57/62		RR	DT-1	Pass	413 to SEOS
08-Oct-03	57/62		RR	DT-1	Pass	447 to SEOS
08-Oct-03	50,51/57,62	- <del> </del>	RR	DT-1	Pass	Tie in
08-Oct-03	50/51	<del></del>	RR	DT-1	Pass	DS-12 72 to NEOS
08-Oct-03	62/64		RR	DT-1	Pass	DS-16 11 to SEOS
08-Oct-03	62/64		RR	DT-1	Pass	49 to SEOS
08-Oct-03	62/64	<del>                                     </del>	RR	DT-1	Pass	Boot, 178 to SEOS
08-Oct-03	62/63,64	1	MR	DT-1	Pass	390 to SEOS
08-Oct-03	62/63		MR	DT-1	Pass	449 to SEOS
08-Oct-03	62/63	1	MR	DT-1	Pass	DS-17 506 to SEOS
08-Oct-03	63/64		MR	DT-1	Pass	11 to WEOS CS
08-0ct-03	64/65,66	1	MR	DT-1	Pass	45 to SEOS
08-Oct-03	64/65		MR	DT-1	Pass	51 to SEOS
08-Oct-03	64/65	1	MR	DT-1	Pass	56 to SEOS
08-Oct-03	64/65		MR	DT-1	Pass	148 to SEOS
08-Oct-03	64/65		MR	DT-1	Pass	245 to SEOS
08-Oct-03	63,64/65		MR	DT-1	Pass	390 to SEOS

### Repair Report

PRODUCT:

40 Mil LLDPE

PROJECT: Former Landfill IRM Former IFG Facility

GM - Syracuse, NY

Repair	Seam	Panel Panel	Repair	Machine	V-Box Test	
Date	Number	Numbers	Crew	Number	Pass/Fail	Location Comments
08-Oct-03	63/65		MR	DT-1	Pass	487 to SEOS
08-Oct-03	63/65		MR	DT-1	Pass	DS-18 502 to SEOS
08-Oct-03	59,60/63,65		MR	DT-1	Pass	Tie in
08-Oct-03	<i>59/60</i>		MR	DT-1	Pass	DS-14 66 to NEOS
08-Oct-03	65/67		MR	DT-1	Pass	241 to SEOS
08-Oct-03	65/67		MR	DT-1	Pass	427 to SEOS
08-Oct-03	65/67		MR	DT-1	Pass	DS-19 433 to SEOS
08-Oct-03	60,61/65		MR	DT-1	Pass	Tie in
08-Oct-03	61/65,67		MR	DT-1	Pass	Tie in
09-Oct-03	51,59/62,63		RR	DT-1	Pass	Boot, Tie in
09-Oct-03		40	RR	DT-Ī	Pass	Boot, 15 to 40/32
09-Oct-03	59/60	•	RR	DT-1	Pass	Boot, 80 to NEOS
09-Oct-03		60	RR	DT-1	Pass	Boot, 80 to NEOLiner
17-Oct-03	67/72,73		RR	DT-1	Pass	56 to SEOS
17-Oct-03	67/72		RR	DT-1	Pass	DS-20 408 to SEOS
17-Oct-03	72,73/74		RR	DT-1	Pass	10 to SEOS
17-Oct-03	72/74		RR	DT-1	Pass	66 to SEOS
17-Oct-03	72/74		RR	DT-1	Pass	72 to SEOS
17-Oct-03	72/74		RR	DT-1	Pass	201 to SEOS
17-Oct-03	72/74		RR	DT-1	Pass	DS-21 328 to SEOS
17-Oct-03	74/75		RR	DT-1	Pass	187 to SEOS
17-Oct-03	74/75		RR	DT-1	Pass	DS-22 246 to SEOS
17-Oct-03	75/77,78		RR	DT-1	Pass	45 to SEOS
17-Oct-03	75/77		RR	DT-1	Pass	113 to SEOS
17-Oct-03	75/76,77		RR	DT-1	Pass	166 to SEOS
17-Oct-03	77/79		RR	DT-1	Pass	11 to SEOS
17-Oct-03	76,77/79		RR	DT-1	Pass	121 to SEOS
17-Oct-03	76/79		RR	DT-1	Pass	DS-23 143 to SEOS
17-Oct-03	61,68/67		RR	DT-1	Pass	Tie in
17-Oct-03	68/67,72		RR	DT-1	Pass	Tie in
17-Oct-03	68/69,70		RR	DT-1	Pass	62 to NEOS
17-Oct-03	68,70/72		RR	DT-1	Pass	T ie in
17-Oct-03	70/72,74		RR	DT-1	Pass	Tie in
17-Oct-03	69,70/71		RR	DT-1	Pass	62 to NEOS
17-Oct-03	71/74,75		RR	DT-1	Pass	Tie in
18-Oct-03	69/70		RR	DT-1	Pass	15 to WEOS Boot
18-Oct-03	70,71/74		RR	DT-1	Pass	Boot, Tie in
18-Oct-03	75/78		RR	DT-1	Pass	Boot, 26 to SEOS
18-Oct-03	75/76		RR	DT-1	Pass	Boot, 247 to SEOS
18-Oct-03	75/76		RR	DT-1	Pass	Boot, 258 to SEOS
18-Oct-03	76/79		RR	DT-1	Pass	Boot, 160 to SEOS
18-Oct-03	76/79		RR	DT-1	Pass	Boot, 168 to SEOS

Repair Report

PRODUCT:

40 Mil LLDPE

PROJECT:

Former Landfill IRM

Former IFG Facility GM - Syracuse, NY

Repair	Seam	Panel	Repair	Machine	V-Box Test	
Date	Number	Numbers	Crew	Number	Pass/Fail	Location Comments
18-Oct-03		79	RR	DT-1	Pass	Boot, 73 to SEOLiner
18-Oct-03		79	RR	DT-1	Pass	Boot, 83 to SEOLiner

### Repair Report

PRODUCT 40 Mil LLDPE

PROJECT: Former Landfill IRM

Former IFG Facility GM - Syracuse, NY

Repair	Seam	Panel	Repair	MACHINE	V-Box Test	
·	Number	Numbers	Crew		Pass/Fail	Location Comments
10/26/2004	3/4		DX	1059	P	70' to N eos
10/26/2004	4/5		DX	1059	P	DS#1 84' N eos
10/26/2004	7/8		DX	1059	Р	21' to 78'
10/26/2004	7/8		DX	1059	P	78' to N eos
10/26/2004	8/9		DX	1059	P	DS#2 121' N eos
10/26/2004	9/19,20		DX	1059	P	CS
10/26/2004	9/19,10		DX	1059	P	CS
10/26/2004	9/10		DX	1059	Р	28' TO 23'
10/26/2004	9/10		DX	1059	Р	23' to N eos
10/26/2004	9/10,14		DX	1059	Р	CS
10/26/2004	21/19,20		DX	1059	P	CS
10/26/2004	19,10,11,21		DX	1059	P	CS
10/26/2004	10/11		DX	1059	Р	54' to 77'
10/26/2004	10/11		DX	1059	Р	77' to N eos
10/26/2004	10/11		DX	1059	Р	DS#3 106' Neos
10/26/2004	10,11,14,15		DX	1059	Р	CS
10/26/2004	11/12		DX	1059	P	DS#4 40' N eos
10/26/2004	21/22		DX	1059	P	DS#5 45' Neos
10/26/2004	22/21,11	l '	DX	1059	P	CS
10/26/2004	11/22,12		DX	1059	P	CS
10/26/2004	11,12,15,16		DX	1059	P	CS
10/26/2004	22,23,12,13		DX	1059	P	CS
10/26/2004	12/13,17		DX	1059	P	CS
10/26/2004	17/12,16		DX	1059	P	CS
10/26/2004	18/13,23		DX	1059	P	CS
10/26/2004	18/13,17		DX	1059	P	CS .
10/26/2004	17/18		DX	1059	Р	DS#6 11' N eos
10/26/2004	24/25,26		DX	1059	Р	CS
10/26/2004			DX	1059	Р	CS
10/26/2004	27/Exsisting E liner		DX	1059	Р	15' to N eos

peel shear / seam destructive test

Client:

Installer:

**New England Liner Systems** 

**GTX #:** 

4827

**Project Name:** 

GM/Syracuse

**Test Date:** Report #:

10/07/03

**Project Location:** 

**New England Liner Systems** 

Page:

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**Upper Geomembrane:** 

40 mil Textured LLDPE

Lower Geomembrane:

40 mil Textured LLDPE

**Seaming Method:** 

Dual Hot-Wedge Weld

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

20in/min

Specimen Size:

1 in x 8 in

**Testing Speed:** 

Date Sampled:

Sample ID:

**DS-1** 16/17

Welder ID:

10/06/03

Seam: Machine ID:

21

		······································	Peel St	rength			S	Shear Stren	gth .
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	77		FTB/SE1	73		FTB/SE1	92		FTB/SE1
2	81		FTB/SE1	71		FTB/SE1	79		FTB/SE1
3	76		FTB/SE1	77		FTB/SE1	89		*
4	75		FTB/SE1	72		FTB/SE1	76		FTB/BRK
5	80		FTB/SE1	84		FTB/SE1	90		FTB/SE1
Average	78			75			85		

Comments:

Tested By:

CMQ

Checked By:

MCH ·

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

Installer:

**New England Liner Systems** 

**GTX #:** 

4827

**Project Name:** 

GM/Syracuse

Test Date: Report #:

10/07/03

**Project Location:** 

**New England Liner Systems** 

Page:

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**Upper Geomembrane:** 

40 mil Textured LLDPE

Lower Geomembrane:

40 mil Textured LLDPE

**Seaming Method:** 

**Dual Hot-Wedge Weld** 

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

20in/min

Specimen Size:

1 in x 8 in

**Testing Speed:** 

Date Sampled:

10/06/03

Sample ID: Seam:

DS-2 31/32

Welder ID:

Machine ID:

21

			Peel Sti	rength			S	hear Stren	gth
		Weld A			Weld B				· 
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	łb./in	Delamination, %	Failure Type
1	73		FTB/SE1	80		FTB/SE1	81		•
2	70		FTB/SE1	89		FTB/SE1	82		*
3	80	<del></del>	FTB/SE1	74		FTB/SE1	76		•
4	83		FTB/SE1	72		FTB/SE1	75		FTB/SE1
5	79		FTB/SE1	75		FTB/SE1	82		*
Average	77		<del></del>	78			79		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

**New England Liner Systems** 

**Project Name:** 

GM/Syracuse

**Project Location:** 

Installer:

**New England Liner Systems** 

40 mil Textured LLDPE

Upper Geomembrane: Lower Geomembrane:

40 mil Textured LLDPE **Dual Hot-Wedge Weld** 

Seaming Method:

**Testing Machine:** Testing Speed:

Instron 1123

20in/min

Sample ID: Seam: Machine ID:

DS-3 36/37 22

Grips:

**GTX #:** 

Page:

Test Date:

Report #:

ATS pneumatic

4827

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10/07/03

Specimen Size:

1 in x 8 in

**Date Sampled:** 

10/06/03

Welder ID:

· · · · · · · · · · · · · · · · · · ·		<u> </u>	Peel St	rength	· · · · · · · · · · · · · · · · · · ·		S	hear Stren	gth
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./în	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	75		FTB/SE1	73		FTB/SE1	86		*
2	76		FTB/SE1	78		FTB/SE1	85		*
3	75		FTB/SE1	76	. <del></del>	FTB/SE1	84		FTB/SE1
4	79		FTB/SE1	72		FTB/SE1	87		FTB/SE1
5	86		FTB/SE1	80		FTB/SE1	88		*
Average	78			76			86		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

**New England Liner Systems** 

GM/Syracuse

**Project Name: Project Location:** 

Installer:

New England Liner Systems

**Upper Geomembrane:** Lower Geomembrane: 40 mil Textured LLDPE 40 mil Textured LLDPE

**Seaming Method:** 

Dual Hot-Wedge Weld

**Testing Machine:** 

Instron 1123

20in/min

**Testing Speed:** 

Sample ID: Seam:

Machine ID:

DS-4 22/39

21

**GTX #:** 

4827

Test Date:

10/07/03

Report #:

Page:

4 of 9

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

Date Sampled:

10/06/03

Weider ID:

			Peel Str	rength			S	hear Stren	gth
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	.69	**-	FTB/BRK	68		FTB/SE1	97		FTB/SE1
2	71	<del></del>	FTB/BRK	71		FTB/SE1	71		FTB/BRK
3	85		FTB/SE1	70		FTB/SE1	88		FTB/SE1
4	91		FTB/SE1	66		FTB/SE1	90		FTB/SE1
5	85	· 	FTB/SE1	67		FTB/SE1	88		*
Average	80	***		68			87		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

**New England Liner Systems** 

GTX #:

4827

Project Name:

GM/Syracuse

Test Date:

10/07/03

**Project Location:** 

Report #:

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installer:

New England Liner Systems

Page:

Upper Geomembrane: Lower Geomembrane: 40 mil Smooth LLDPE 40 mil Smooth LLDPE

Seaming Method:

Dual Hot-Wedge Weld

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

**Testing Speed:** 

20in/min

Date Sampled:

10/06/03

Sample ID: Seam:

DS-5 39/41

Welder ID:

Machine ID:

22

	·		Peel Sti	rength			S	hear Stren	gth
	·	Weld A			Weld B				•
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	69		FTB/BRK	67		FTB/SE1	80		FTB/SE1
2	66		FTB/SE1	70		FTB/SE1	75		FTB/SE1
3	65		FTB/SE1	67		FTB/SE1	75	<del></del>	FTB/SE1
4	66		FTB/SE1	71		FTB/SE1	78		FTB/SE1
5	68		FTB/SE1	68	<u></u>	FTB/SE1	79		FTB/SE1
Average	67			69			77		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

Installer:

New England Liner Systems

GM/Syracuse

**Project Name: Project Location:** 

New England Liner Systems

40 mil Smooth LLDPE

Upper Geomembrane: Lower Geomembrane:

40 mil Smooth LLDPE

Seaming Method:

Dual Hot-Wedge Weld

**Testing Machine:** 

Instron 1123

20in/min

**Testing Speed:** 

Sample ID:

**DS-6** 41/43

Seam: Machine ID:

22

GTX #:

4827

Test Date:

10/07/03

Report #:

Page:

6 of 9

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

Date Sampled:

10/06/03

Welder ID:

			Peel St	rength			S	hear Stren	gth
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	64		FTB/SE1	68		FTB/SE1	78		FTB/SE1
2	65		FTB/SE1	67		FTB/SE1	71		FTB/BRK
3	67		FTB/SE1	66		FTB/SE1	72		FTB/SE1
4	67		FTB/SE1	66		FTB/SE1	77		FTB/SE1
5	66		FTB/SE1	66		FTB/SE1	77		FTB/SE1
Average	66			67			75		. <del></del>

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

**New England Liner Systems** 

GTX #: .

4827

**Project Name:** 

GM/Syracuse

Test Date:

10/07/03

**Project Location:** 

Report #:

Installer:

**New England Liner Systems** 

Page:

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**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

Seaming Method:

**Dual Hot-Wedge Weld** 

**Testing Machine:** 

instron 1123

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

Testing Speed:

20in/min

**Date Sampled:** 

Sample ID: Seam:

DS-7 43/44

Welder ID:

10/06/03

Machine ID:

21

·			Peel St	rength			S	shear Stren	gth
ļ		Weld A			Weld B				
Specimen Number	lþ./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	72		FTB/SE1	63		FTB/SE1	70		FTB/BRK
2	78		FTB/SE1	66		FTB/SE1	70		FTB/BRK
3	78		FTB/SE1	66		FTB/SE1	73		FTB/SE1
4	76		FTB/SE1	62		FTB/SE1	74		FTB/SE1
5	77		FTB/SE1	62		FTB/SE1	78		FTB/SE1
Average	76			64			73		

**Comments:** 

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

**New England Liner Systems** 

**GTX #:** 

4827

**Project Name:** 

GM/Syracuse

Test Date:

10/07/03

**Project Location:** 

Report #: Page:

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Installer:

New England Liner Systems

Upper Geomembrane:

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

**Seaming Method:** 

**Dual Hot-Wedge Weld** 

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

20in/min

Specimen Size:

1 in x 8 in

**Testing Speed:** 

**Date Sampled:** 

10/06/03

Sample ID: Seam:

**DS-8** 44/46

Welder ID:

Machine ID:

22

T			Peel St	rength			S	hear Stren	gth
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	65		FTB/SE1	61		FTB/SE1	. 63		FTB/BRK
2	65		FTB/SE1	69		FTB/BRK	77		FTB/SE1
3	67		FTB/SE1	66		FTB/SE1	76		FTB/SE1
4	64		FTB/SE1	70		FTB/SE1	75		FTB/SE1
5	64		FTB/SE1	62		FTB/SE1	77		FTB/SE1
Average	65			66			74		

Comments:

Tested By:

CMQ

Checked By:

MCH.

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

**New England Liner Systems** 

GM/Syracuse

**Project Name:** 

**Project Location:** 

Installer:

New England Liner Systems

40 mil Smooth LLDPE

**Upper Geomembrane:** Lower Geomembrane: **Seaming Method:** 

40 mil Smooth LLDPE Dual Hot-Wedge Weld

**Testing Machine: Testing Speed:** 

Instron 1123

20in/min

Sample ID: Seam:

**DS-9** 44/46

Machine ID:

21

**GTX #:** 

4827

**Test Date:** 

10/07/03

Report #: Page:

9 of 9

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

Date Sampled:

10/06/03

Welder ID:

			Peel Sti	rength				Shear Stren	gth
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	68		FTB/BRK	65		FTB/SE1	70		FTB/BRK
2	71		FTB/BRK	67		FTB/SE1	70		FTB/BRK
3	72		FTB/SE1	67		FTB/SE1	76		FTB/SE1
4	75		FTB/SE1	-70	***	FTB/SE1	77		FTB/SE1
5	80	<u> </u>	FTB/SE1	69		FTB/SE1	70		FTB/SE1
Average	73			68			73		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

**Client:** 

**New England Liner Systems** 

4827

**Project Name:** 

GM/Syracuse

Test Date: Report #:

10/08/03

**Project Location:** installer:

**New England Liner Systems** 

Page:

GTX #:

1 of 4

**Upper Geomembrane:** 

40 mil Smooth LLDPE

40 mil Smooth LLDPE

Lower Geomembrane: Seaming Method:

Dual Hot-Wedge Weld

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

**Testing Speed:** 

Specimen Size:

1 in x 8 in

20in/min

Date Sampled:

10/07/03

Sample ID:

**DS-10** 52/54

Welder ID:

NO

Seam: Machine ID:

21

			Peel Sti	rength			S	hear Stren	gth
		Weld A			Weld B		······································		·
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	64		FTB/SE1	61		FTB/SE1	68		FTB/SE1
2	64		FTB/SE1	62	***	FTB/SE1	70		FTB/SE1
3	73		FTB/SE1	67		FTB/SE1	68	***	FTB/SE1
4	66		FTB/SE1	64		FTB/SE1	75	<b></b>	FTB/SE1
5	64		FTB/SE1	64		FTB/SE1	76		FTB/SE1
Average	66			64			71		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

New England Liner Systems

GTX #:

4827

**Project Name:** 

GM/Syracuse

Test Date:

10/08/03

Project Location:

Report #:

Installer:

New England Liner Systems

Page:

2 of 4

**Upper Geomembrane:** Lower Geomembrane: 40 mil Smooth LLDPE 40 mil Smooth LLDPE

Seaming Method:

**Dual Hot-Wedge Weld** 

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

**Testing Speed:** 

Specimen Size:

1 in x 8 in

20in/min

Date Sampled:

10/07/03

Sample ID: Seam:

**DS-11** 55/54

Welder ID:

NO

Machine ID:

21

Г				Peel Sti	ength			S	hear Stren	gth
L	·		Weld A			Weld B				
	Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
r	1	70		FTB/SE1	60		FTB/SE1	64		FTB/SE1
	2	69		FTB/SE1	63		FTB/SE1	74		FTB/SE1
	3	76		FTB/SE1	68		FTB/SE1	78		FTB/SE1
	4	75		FTB/SE1	66		FTB/SE1	74		FTB/SE1
	5	68		FTB/SE1	68		FTB/SE1	60		FTB/SE1
F	Average	72			65			70		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

**New England Liner Systems** 

**GTX #:** 

4827

**Project Name:** 

GM/Syracuse

Test Date:

10/08/03

**Project Location:** 

Report #:

3 of 4

Installer:

New England Liner Systems

Page:

**Upper Geomembrane:** 

40 mil Textured LLDPE

Lower Geomembrane:

40 mil Textured LLDPE

**Seaming Method:** 

Dual Hot-Wedge Weld

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

Testing Speed:

Specimen Size:

1 in x 8 in

20in/min

Date Sampled:

10/07/03

Sample ID: Seam:

**DS-12** 51/50

Welder ID:

NO

Machine ID:

21

			Peel Sti	rength				Shear Stren	gth
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	. 86		FTB/SE1	73		FTB/SE1	78		FTB/SE1
2	89		FTB/SE1	79		FTB/SE1	83		FTB/SE1
3	86		FTB/SE1	76		FTB/SE1	83		FTB/SE1
4	80		FTB/SE1	70		FTB/SE1	86		FTB/SE1
5	85		FTB/SE1	73		FTB/SE1	75		FTB/SE1
Average	85			74	***		81		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

**New England Liner Systems** 

GM/Syracuse

4827 **GTX #: Test Date:** 

10/08/03

**Project Name:** 

Report #:

**Project Location:** Installer:

**New England Liner Systems** 

Page:

4 of 4

Upper Geomembrane:

40 mil Smooth LLDPE 40 mil Smooth LLDPE

Lower Geomembrane: **Seaming Method:** 

**Dual Hot-Wedge Weld** 

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

Testing Speed:

20in/min

Date Sampled:

10/07/03

Sample ID:

**DS-13** 

1808389LAV 5 3 6 7 1

Seam:

57/56

Welder ID:

NO.

Machine ID:

21

			Peel St	rength				Shear Stren	gth
•		Weld A			Weld B		·		
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	75		FTB/SE1	63		FTB/SE1	69		FTB/SE1
2	69		FTB/SE1	61		FTB/SE1	71		FTB/SE1
3	71		FTB/SE1	62		FTB/SE1	74	<del></del>	FTB/SE1
4	73		FTB/SE1	63		FTB/SE1	71		FTB/SE1
5	76		FTB/SE1	61		FTB/SE1	70		FTB/SE1
Average	73	****		62		 ·	71		

**Comments:** 

Tested By:

**CMQ** 

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

Installer:

New England Liner Systems

**GTX #:** 

4827

**Project Name:** 

GM/Syracuse

Test Date:

10/09/03

**Project Location:** 

**New England Liner Systems** 

Report #: Page:

1 of 6

**Upper Geomembrane:** 

40 mil Textured LLDPE

Lower Geomembrane:

40 mil Textured LLDPE

**Seaming Method:** 

Dual Hot-Wedge Weld

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

Testing Speed:

20in/min

Sample ID:

**DS-14** 

Date Sampled:

10/08/03

Seam:

60/59

Welder ID:

NO

Machine ID:

21

Γ	· ·			Peel St	rength			S	hear Stren	gth
ļ			Weld A			Weld B				
	Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
ľ	1	86		FTB/SE1	71	<del></del>	FTB/SE1	88		FTB/SE1
	2	94		FTB/SE1	74		FTB/SE1	86		FTB/SE1
	3	80		FTB/SE1	80		FTB/SE1	86		* .
	4	78		FTB/SE1	69		FTB/SE1	82		FTB/SE1
	5	78		FTB/SE1	77		FTB/SE1	89		FTB/SE1
Ī	Average	83			74		<u></u> -	86		

**Comments:** 

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

**New England Liner Systems** 

**GTX #:** 

4827

**Project Name:** 

**GM/Syracuse** 

Test Date:

10/09/03

**Project Location:** 

Report #:

Installer:

**New England Liner Systems** 

Page:

2 of 6

Upper Geomembrane:

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

**Seaming Method:** 

Dual Hot-Wedge Weld

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

**Testing Speed:** 

20in/min

Date Sampled:

10/08/03

Seam:

DS-15 62/58

Welder ID:

NO

Machine ID:

Sample ID:

21

			Peel Sti	rength	-		S	hear Stren	gth
<b>.</b>		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb:/in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	64	***	FTB/SE1	67		FTB/SE1	77		FTB/SE1
2	67		FTB/SE1	65		FTB/SE1	75		FTB/SE1
3	67		FTB/SE1	66		FTB/SE1	71		FTB/SE1
4	66		FTB/SE1	63		FTB/SE1	75		FTB/SE1
5	65		FTB/SE1	61		FTB/SE1	73		FTB/SE1
Average	66			64			74		

**Comments:** 

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

New England Liner Systems

GTX #:

4827

**Project Name:** 

GM/Syracuse

Test Date:

10/09/03

**Project Location:** 

Report #:

Installer:

**New England Liner Systems** 

Page:

3 of 6

**Upper Geomembrane:** 

40 mil Smooth LLDPE

**Lower Geomembrane:** 

40 mil Smooth LLDPE

**Seaming Method:** 

**Dual Hot-Wedge Weld** 

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

**Testing Speed:** 

20in/min

Date Sampled:

10/08/03

Sample iD: Seam:

**DS-16** 64/67

Welder ID:

NO

Machine ID:

21

			Peel St	rength			S	hear Stren	gth
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	66		FTB/SE1	60		FTB/SE1	70		*
2	81		FTB/SE1	72		FTB/SE1	67		•
3	63		FTB/SE1	66		FTB/SE1	66		*
4	71		FTB/SE1	62	<del></del>	FTB/SE1	72		*
5	80		FTB/SE1	63		FTB/SE1	70	<del></del>	*
Average	72			65			69		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

**Client:** 

**New England Liner Systems** 

GTX #:

4827

**Project Name:** 

GM/Syracuse

**Test Date:** 

10/09/03

**Project Location:** 

Report #:

Installer:

**New England Liner Systems** 

Page:

4 of 6

**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane: **Seaming Method:** 

40 mil Smooth LLDPE Dual Hot-Wedge Weld

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

**Testing Speed:** 

20in/min

Sample ID:

Machine ID:

**DS-17** 

**Date Sampled:** 

10/08/03

Seam:

62/63 21

Welder ID:

NO

ſ				Peel St	rength			S	Shear Stren	gth
ļ			Weld A			Weld B				
	Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
	1	75	'au-	FTB/SE1	66		FTB/SE1	78		FTB/SE1
	2	72		FTB/SE1	65	, <del></del>	FTB/SE1	79		FTB/SE1
	3	71		FTB/SE1	64		FTB/SE1	80		FTB/SE1
	4	79		FTB/SE1	65		FTB/SE1	77		FTB/SE1
	5	69	***	FTB/SE1	68		FTB/SE1	74		FTB/SE1
	Average	73			66			78		

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

**Client:** 

New England Liner Systems

**GTX #:** 

4827

**Project Name:** 

GM/Syracuse

Test Date:

10/09/03

**Project Location:** 

Report #:

3

Installer:

**New England Liner Systems** 

Page:

5 of 6

**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

**Seaming Method:** 

**Dual Hot-Wedge Weld** 

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

**Testing Speed:** 

20in/min

Sample ID:

**DS-18** 

Date Sampled: Welder ID:

10/08/03 NO

Seam: Machine ID: 65/63 21

			Peel St	rength			. 8	Shear Stren	gth
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	67		FTB/SE1	66		FTB/SE1	70		*
2	64		FTB/SE1	64		FTB/SE1	78		FTB/SE1
3	65		FTB/SE1	63		FTB/SE1	74		*
4	64		FTB/SE1	65		FTB/SE1	76		FTB/SE1
5	71		FTB/SE1	67		FTB/SE1	72		*
Average	66			65			74		

**Comments:** 

Tested By:

**CMQ** 

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

**New England Liner Systems** 

GTX #:

4827

**Project Name:** 

GM/Syracuse

Test Date:

10/09/03

**Project Location:** 

Report #:

Installer:

**New England Liner Systems** 

Page:

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**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

Seaming Method:

**Dual Hot-Wedge Weld** 

Testing Machine:

Instron 1123

Grips:

ATS pneumatic

Testing Speed:

Specimen Size:

1 in x 8 in

20in/min

Sample ID:

**DS-19** 

Date Sampled:

10/08/03

Seam: Machine ID: 67/65 22

Welder ID:

NO

			Peel St	rength			S	Shear Stren	gth
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	77		FTB/SE1	63		FTB/SE1	69		FTB/SE1
2	73		FTB/SE1	61		FTB/SE1	74		FTB/SE1
3	66		FTB/SE1	65		FTB/SE1	75		FTB/SE1
4	73	, <del></del>	FTB/SE1	63	****	FTB/SE1	73		FTB/SE1
5	75	***	FTB/SE1	64		FTB/SE1	77		FTB/SE1
Average	73			63			74		<del></del>

Comments:

Tested By:

CMQ

Checked By:

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

New England Liner Systems

GTX #:

4827

**Project Name:** 

GM/Syracuse

Test Date:

10/20/03

**Project Location:** 

Report #:

Installer:

**New England Liner Systems** 

Page:

1 of 4

**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

Seaming Method:

Dual Hot-Wedge Weld

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

**Testing Speed:** 

20in/min

Date Sampled:

10/17/03

Sample ID: Seam:

**DS-20** 67/72

Welder ID:

NO

Machine ID:

21

	************	·	Peel St	rength			5	Shear Stren	gth
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	79		FTB/SE1	68		FTB/SE1	65		*
2	74		FTB/SE1	66	***	FTB/SE1	66		*
3	66	***	FTB/SE1	65		FTB/SE1	67		*
4	72		FTB/SE1	66		FTB/SE1	65		*
5	69		FTB/SE1	68	win-	FTB/SE1	65		*
Average	72			67			66		

Comments:

Tested By:

AHP

Checked By:

FH

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

**New England Liner Systems** 

GM/Syracuse

0,,

Project Location: Installer:

**Project Name:** 

---

**New England Liner Systems** 

GTX #:

4827

Test Date:

10/20/03

Report #:

4

Page:

2 of 4

**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

**Seaming Method:** 

Dual Hot-Wedge Weld

Testing Machine:

Instron 1123

Grips:

ATS pneumatic

/min Specimen Size:

Testing Speed:

20in/min

•

1 in x 8 in

Sample ID:

DS-21

**Date Sampled:** 

10/17/03

Seam:

72/74

Welder ID:

MO

Machine ID:

22

			Peel St	rength			(	Shear Stren	gth
		Weld A	•		Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	67		FTB/SE1	66		FTB/SE1	64	, <del></del>	*
2	70		FTB/SE1	65		FTB/SE1	66		*
3	70	****	FTB/SE1	63		FTB/SE1	64		*
4	68		FTB/SE1	64		FTB/SE1	63		*
5	67		FTB/SE1	66		FTB/SE1	63		*
Average	68			65			64		

**Comments:** 

Tested By:

AHP

Checked By.

FΗ

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

**New England Liner Systems** 

**GTX #:** 

**Project Name:** 

GM/Syracuse

4827 10/20/03 Test Date:

**Project Location:** 

Report #:

Installer:

**New England Liner Systems** 

Page:

3 of 4

**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

Seaming Method:

**Dual Hot-Wedge Weld** 

Testing Machine:

Instron 1123

**Grips:** 

ATS pneumatic

**Testing Speed:** 

Specimen Size:

1 in x 8 in

20in/min

Date Sampled:

10/17/03

Sample ID: Seam:

**DS-22** 74/75

Welder ID:

NO

Machine ID:

21

			Peel St	rength			S	Shear Stren	gth
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	77		FTB/SE1	66		FTB/SE1	64		*
2	79		FTB/SE1	65		FTB/SE1	66		*
3	77		FTB/SE1	64		FTB/SE1	66		•
4	72		FTB/SE1	65		FTB/SE1	64		*
5	70		FTB/SE1	66		FTB/SE1	64		*
Average	75			65			65		•

**Comments:** 

Tested By:

AHP

Checked By:

FH

<sup>\* =</sup> test halted after 20 inches of displacement

peel shear / seam destructive test

Client:

**New England Liner Systems** 

**GTX #:** 

4827

**Project Name:** 

GM/Syracuse

Test Date: Report #:

10/20/03

Project Location: Installer:

**New England Liner Systems** 

Page:

4 of 4

**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

Seaming Method:

**Dual Hot-Wedge Weld** 

Testing Machine:

Instron 1123

Grips:

ATS pneumatic

Specimen Size:

1 in x 8 in

Testing Speed:

20in/min

Date Sampled:

10/17/03

Sample ID: Seam:

**DS-23** 76/79

Welder ID:

NO

Machine ID:

21

			Peel St	rength	<u>.</u>		(	Shear Stren	gth
		Weld A			Weld B				
Specimen Number	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type	lb./in	Delamination, %	Failure Type
1	76		FTB/SE1	67		FTB/SE1	65	·	*
2	79		FTB/SE1	65		FTB/SE1	68		*
3	76		FTB/SE1	64	****	FTB/SE1	67		*
4	67		FTB/SE1	65		FTB/SE1	64		*
5	67		FTB/BRK	66		FTB/SE1	65		*
Average	73			65	•••		66		

Comments:

Tested By:

AHP

Checked By:

FH:

Notes: These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material.

<sup>\* =</sup> test halted after 20 inches of displacement

## **GeoTesting** express

1145 Massachusetts Avenue Boxborough, MA 01719 978 635 0424 Tel 978 635 0266 Fax

Trans	mitta	I		
		, , , , , , , , , , , , , , , , , , ,		
o:			P	
Mr. Jim Mag	jnoli		DATE: 11/04/04	GTX NO: 5572
New Englan	d Liner Syste	ms	RE: Royal Environme	ntal GM
35 Wooster	Court			·
Bristol, CT	06010			
				. <del></del> .
	· · ·			
COPIES	DATE	T	DESCRIPTION	
·	11/04/04	October 2004 Laborato	ry Test Reports	
		Seam Destructive Tests	(ASTM D 6392)	:
REMARKS:				
		· · · · · · · · · · · · · · · · · · ·		
			· · · · · · · · · · · · · · · · · · ·	······
			1	P
CC:		SIGNI		ory Manager
				•
•		APPROVED E	BY: flef	

Fred Hooper – Laboratory Manager

## **GeoTesting** express

1145 Massachusetts Avenue Boxborough, MA 01719 978 635 0424 Tel 978 635 0266 Fax

## **Geotechnical Test Report**

November 4, 2004

## Royal Environmental GM Project

Syracuse, NY

Prepared for:

**New England Liner Systems** 



peel shear / seam destructive test

Client:

**New England Liner Systems** 

GTX #:

5572

Project Name:

Royal Environmental - GM

Test Date:

10/27/04

**Project Location:** 

Syracuse, NY

Report #:

4 . . .

Installer:

**New England Liner Systems** 

Page:

1 of 6

**Upper Geomembrane:** 

40 mil Textured LLDPE

Lower Geomembrane:

40 mil Textured LLDPE

Seaming Method:

Dual Hot-Wedge Weld

Testing Machine:

Instron 1123

Grips:

ATS pneumatic

Testing Speed:

20 in/min

Specimen Size:

1 in x 8 in

Sample ID:

DS-1

**Date Sampled:** 

Seam:

P4/P5

Welder ID:

---

Machine ID:

---

			Peel S	trength			9	Shear Streng	th
		Weld A		, ear	Weld B				3
Specimen Number	lb./in	Seam Separation, %	Rupture Mode	lb./in	Seam Separation, %	Rupture Mode	lb./in	Elongation, %	Rupture Mode
1	72		SE1	80		SE1	87	1800	lower
2	82		SE1	85		SE1	93	1800	lower
3	82		SE1	79		SE1	100	1900	upper
4	84		SE1	84		SE1	·64	1900	lower
5	84	·	SE1	80		SE1	98	1900	upper
Average	81			82			88		

Comments:

Tested By:

awr

Checked By:

fph

Estimate of seam separation visually determined based upon proportion of linear length of separated bond in the direction of the test to the length of original bonding to the nearest 25%.

Shear test halted for HDPE and LMDPE materials once specimen has elongated 50%.

Shear test halted for PVC, fPP, LLDPE, VFPE and VLDPE once specimen has elongated past machine capacity.

Rupture mode for specimens with >50% elongation (HDPE and LMDPE) or > machine capacity (PVC, fPP, LLDPE, VFPE and VLDPE) interpreted as occurring in the membrane that exhibits yielding.



peel shear / seam destructive test

Client:

Installer:

New England Liner Systems

New England Liner Systems

GTX #:

5572

Project Name:

Royal Environmental - GM

**Test Date:** 

10/27/04

**Project Location:** 

Syracuse, NY

Report #: Page:

2 of 6

**Upper Geomembrane:** 

40 mil Textured LLDPE

**Lower Geomembrane:** 

40 mil Textured LLDPE

Seaming Method:

Dual Hot-Wedge Weld

Testing Machine:

Instron 1123

Grips:

ATS pneumatic

**Testing Speed:** 

20 in/min

Specimen Size:

1 in x8 in

Sample ID:

DS-2

Date Sampled:

Seam:

P8/P9

Welder ID:

---

**Machine ID:** 

\_\_\_

			Peel S	trength				Shear Streng	th
		Weld A			Weld B				
Specimen Number	lb./in	Seam Separation, %	Rupture <b>M</b> ode	lb./in	Seam Separation, %	Rupture <b>M</b> ode	lb./in	Elongation, %	Rupture <b>M</b> ode
1	84		SE1	85		SE1	83	> 2000	both
2	87		SE1	85		SE1	86	> 2000	both
3	87	***	SE1	<b>83</b> .		SE1	89	> 2000	both
4	86		SE1	81		SE1	83	> 2000	both
5	83		SE1	84		SE1	87	> 2000	both
Average	85			84		<u>:</u>	86		

Comments:

Tested By:

awr

Checked By:

fph

Estimate of seam separation visually determined based upon proportion of linear length of separated bond in the direction of the test to the length of original bonding to the nearest 25%.

Shear test halted for HDPE and LMDPE materials once specimen has elongated 50%.

Shear test halted for PVC, fPP, LLDPE, VFPE and VLDPE once specimen has elongated past machine capacity.

Rupture mode for specimens with >50% elongation (HDPE and LMDPE) or > machine capacity (PVC, fPP, LLDPE, VFPE and VLDPE) interpreted as occurring in the membrane that exhibits yielding.



peel shear / seam destructive test

Client:

**New England Liner Systems** 

5572

Project Name:

Royal Environmental - GM

10/27/04

**Project Location:** 

Syracuse, NY

1

installer:

**New England Liner Systems** 

Page:

**GTX #:** 

**Test Date:** 

Report #:

3 of 6

**Upper Geomembrane:** 

40 mil Smooth LLDPE

Lower Geomembrane:

40 mil Smooth LLDPE

Seaming Method:

Dual Hot-Wedge Weld

Testing Machine:

Instron 1123

Grips:

ATS pneumatic

**Testing Speed:** 

20 in/min

Specimen Size:

. 1 in x 8 in

Sample ID:

DS-3

Date Sampled:

Seam:

P10/P11

Welder ID:

---

Machine ID:

			Peel S	trength			(	Shear Streng	th
		Weld A			Weld B				
Specimen Number	lb./in	Seam Separation, %	Rupture Mode	lb./in	Seam Separation, %	Rupture Mode	lb./in	Elongation, %	Rupture Mode
1	70		SE1	70		SE1	72	1900	lower
2	86		SE1	78		SE1	78	> 2000	both
3	72		SE1	72		SE1	80	> 2000	both
4	86		SE1	70		SE1	79	1900	upper
5	78		SE1	73	<del></del>	SE1	74	1900	lower
Average	78			73			77		

**Comments:** 

Tested By:

awr

Checked By:

fph

Estimate of seam separation visually determined based upon proportion of linear length of separated bond in the direction of the test to the length of original bonding to the nearest 25%.

Shear test halted for HDPE and LMDPE materials once specimen has elongated 50%.

Shear test halted for PVC, fPP, LLDPE, VFPE and VLDPE once specimen has elongated past machine capacity.

Rupture mode for specimens with >50% elongation (HDPE and LMDPE) or > machine capacity (PVC, fPP, LLDPE, VFPE and VLDPE) interpreted as occurring in the membrane that exhibits yielding.



peel shear / seam destructive test

Client:

**New England Liner Systems** 

GTX #:

5572

Project Name:

Royal Environmental - GM

Test Date:

Page:

10/27/04

**Project Location:** 

Syracuse, NY

Report #:

4 of 6

installer:

New England Liner Systems

40 mil Smooth LLDPE

**Upper Geomembrane: Lower Geomembrane:** 

40 mil Smooth LLDPE

Seaming Method:

Dual Hot-Wedge Weld

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

**Testing Speed:** 

20 in/min

Specimen Size:

1 in x 8 in

Sample ID:

DS-4

**Date Sampled:** 

Seam:

P11/P12

Welder ID:

---

Machine ID:

\_\_\_

			Peel S	trength			9	Shear Streng	th
		Weld A		1	Weld B				
Specimen Number	lb./in	Seam Separation, %	Rupture Mode	lb./in	Seam Separation, %	Rupture Mode	lb./in	Elongation, %	Rupture Mode
1	70		SE1	74		SE1	75	1800	lower
2	83		SE1	69		SE1	83	1900	upper
3	86		SE1	79	***	SE1	86	> 2000	both
4	82		SE1	79		SE1	78	1700	upper
5	73		BRK	78		SE1	87	1800	upper
Average	79			76			82		

**Comments:** 

Tested By:

awr

Checked By:

fph

Estimate of seam separation visually determined based upon proportion of linear length of separated bond in the direction of the test to the length of onginal bonding to the nearest 25%.

Shear test halted for HDPE and LMDPE materials once specimen has elongated 50%.

Shear test halted for PVC, fPP, LLDPE, VFPE and VLDPE once specimen has elongated past machine capacity.

Rupture mode for specimens with >50% elongation (HDPE and LMDPE) or > machine capacity (PVC, fPP, LLDPE, VFPE and VLDPE) interpreted as occurring in the membrane that exhibits yielding.



peel shear / seam destructive test

Client:

**New England Liner Systems** 

GTX #:

5572

**Project Name:** 

Royal Environmental - GM

**Test Date:** Report #:

10/27/04

**Project Location:** Installer:

Syracuse, NY New England Liner Systems

Page:

5 of 6

1

**Upper Geomembrane:** 

40 mil Textured LLDPE

**Lower Geomembrane:** 

40 mil Textured LLDPE

**Seaming Method:** 

**Dual Hot-Wedge Weld** 

**Testing Machine:** 

Instron 1123

Grips:

ATS pneumatic

**Testing Speed:** 

20 in/min

**Specimen Size:** 

1 in x 8 in

Sample ID:

**DS-5** 

**Date Sampled:** 

Seam:

P21/P22

Welder ID:

Machine ID:

			Peel S	trength				Shear Streng	th
		Weld A			Weld B	:			
Specimen Number	lb./in	Seam Separation, %	Rupture Mode	lb./in	Seam Separation, %	Rupture <b>M</b> ode	lb./in	Elongation, %	Rupture Mode
1	85		SE1	82		SE1	84	> 2000	both
2	87		SE1	79		SE1	86	> 2000	both
3	83		SE1	81		SE1	88	> 2000	both
4	82	•••	SE1	90		SE1	82	> 2000	both
5	85		SE1	79		SE1	89	> 2000	both
Average	84			82		<b>4</b>	86		

Comments:

Tested By:

awr

Checked By:

fph

Estimate of seam separation visually determined based upon proportion of linear length of separated bond in the direction of the test to the length of original bonding to the nearest 25%.

Shear test halted for HDPE and LMDPE materials once specimen has elongated 50%.

Shear test halted for PVC, fPP, LLDPE, VFPE and VLDPE once specimen has elongated past machine capacity.

Rupture mode for specimens with >50% elongation (HDPE and LMDPE) or > machine capacity (PVC, fPP, LLDPE, VFPE and VLDPE) interpreted as occurring in the membrane that exhibits yielding.



peel shear / seam destructive test

Client:

**New England Liner Systems** 

GTX #:

5572

**Project Name:** 

Royal Environmental - GM

**Test Date:** Report #:

10/27/04 1

**Project Location:** Installer:

Syracuse, NY

**New England Liner Systems** 

Page:

6 of 6

**Upper Geomembrane:** 

40 mil Textured LLDPE

**Lower Geomembrane: Seaming Method:** 

40 mil Textured LLDPE Dual Hot-Wedge Weld

**Testing Machine:** 

Instron 1123

**Grips:** 

ATS pneumatic

**Testing Speed:** 

Specimen Size:

1 in x 8 in

20 in/min

**Date Sampled:** 

Sample ID: Seam:

DS-6 P17/P18

Weider ID:

Machine ID:

	· · · · · · · · · · · · · · · · · · ·		Peel S	trength				Shear Streng	th
		Weld A			Weld B			ere i	
Specimen Number	lb./in	Seam Separation, %	Rupture <b>M</b> ode	lb./in	Seam Separation, %	Rupture <b>M</b> ode	lb./in	Elongation, %	Rupture <b>M</b> ode
1	90		SE1	79		SE1	89	> 2000	both
2	79		SE1	91		SE1	79	> 2000	both
3	80		SE1	80		SE1	87	> 2000	both
4	80		SE1	76		SE1	81	1900	lower
5	78		SE1	88	<b></b> .	SE1	83	> 2000	both
Average	81			83			84		

Comments:

Tested By:

awr

Checked By:

fph

Estimate of seam separation visually determined based upon proportion of linear length of separated bond in the direction of the test to the length of original bonding to the nearest 25%.

Shear test halted for HDPE and LMDPE materials once specimen has elongated 50%.

Shear test halted for PVC, fPP, LLDPE, VFPE and VLDPE once specimen has elongated past machine capacity.

Rupture mode for specimens with >50% elongation (HDPE and LMDPE) or > machine capacity (PVC, fPP, LLDPE, VFPE and VLDPE) interpreted as occurring in the membrane that exhibits yielding.

## **DAILY FIELD REPORT**

	ENITONNEWTAL  OCMPC  FORCILITY  NUBUR GOD-  L ENVIRONMENTAL	REPORT NO.: TOTAL SQ. FT. INS TOTAL LINEAL SE	10-20-03 ST2318N-10-10 STALLED: EAM: PUSS Inchery
	WEATHER C	CONDITIONS	
<u>1</u> .			
TIME	700	1230	
TEMPERATURE (°F)	40	45	
CONDITIONS	PATTY cloudy	PARTLY cloudy	
WIND	0-10	0-10	
Material Receipt: Subgrade Acceptance: Panel Deployment: Panel Seaming: Air Channel Testing: Destructive Testing: Repair: Vaccum Testing:			73/p74/p75

## SEAM TESTING RECORD

Client:
Project:
Date:

Job No: ATL Representative:

Sheet:

NATE WILBUR 10-10-03

•	
of	

	123	SERIC	OK						p75/16,77
_	122	pres	210	-					275/77
	121	Parsi	OK	-					36.24/524
	120	Serie	OK						26/4/4
	119	SEND	oK						27//73
	118	pares	OK						11/2/4
	117	PASS	OK						16/21
	110	pass	ck						77474
	37	7458	30						77 1179
	114	pass	CK						77/21/21
	1//3	PARS	OK						21/12
10-20	112	JASS	OK						21219/123
Date	Number	Pass/Fail	Test	Finish Pressure	Start Pressure	rinish lime	Start Time	Technician	, Constitution
Retest	Repair	Result	Vacuum		nel Test	Air Channel Test	Start Till	Technician	Seamed

## SEAM TESTING RECORD

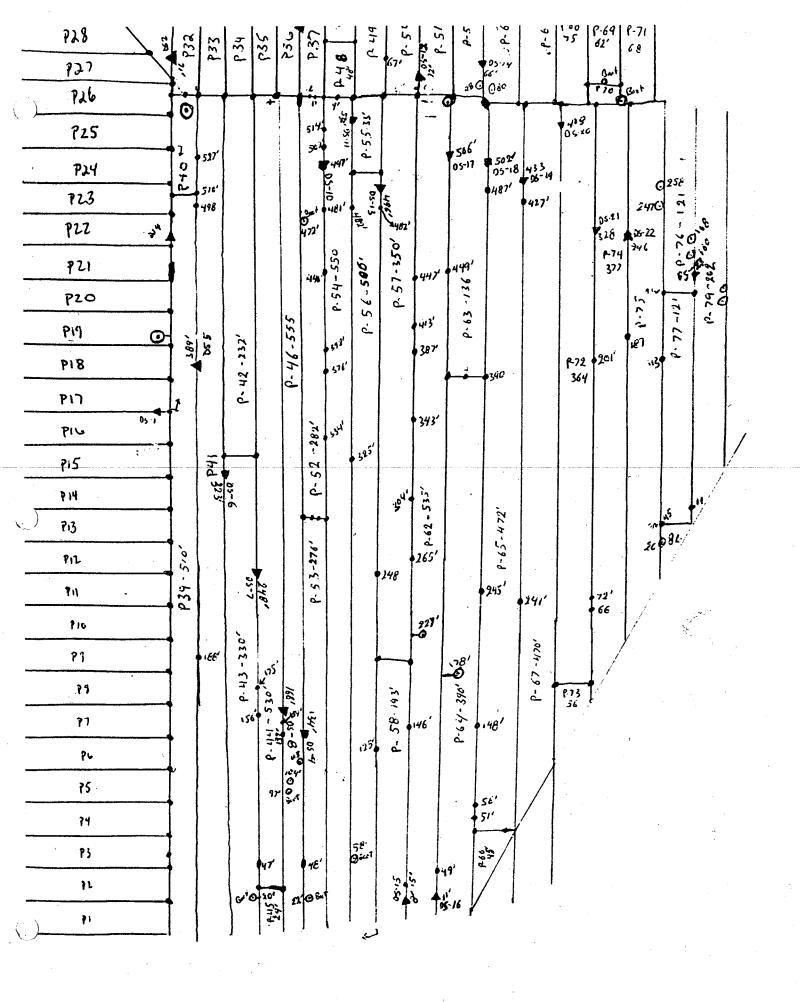
Client:
Project:
Date: Job No:
ATL Representative:
Sheet:

ntative: nrew within

raneis	lest		Air Channel Test	nel Test		Vacuum	Result	Repair	Retest
Seamed	i echnician	Start Time	Finish Time	Start Pressure	Finish Pressure	Test	Pass/Fail	Number	Date
27779						70	2450	128	0-70
977779					. *	NO	224G	125	
25/25									
						30	24.55	126	
pc1, c8/27						ok	Z.	127	
26/67,72		-				ck	Ma	441	
01 47/870						ok	est	129	
21/01/20						ok	24.5	150	
41.21/019						OK	DAY.	131	
14/06/29						20	DATS5	727	
दा प्रापित						ok	Ssw	133	
							•		
	•								

## REPAIR RECORD

					•	Number Identification	
						Repair Location	Con tormer Ita-tacily
			,			Reason for	Job No: STZ318N-10-10-03 ATL Representative: MARK - 16-10-03 Sheet: of of
						Repair	1 2318N-10
				ſ	Tested	Date	-10-03



## ATLANTIC TESTING LABORATORIES, Limited

## DAILY FIELD REPORT

<b>.</b>	WEATHER C	SUPERVISOR:	Puss Trades	<del></del>
			•	
IME	300 PM			
EMPERATURE (°F)	500 PM			
	cloudy			
ONDITIONS	2000	1	1	
ONDITIONS IND	5-10 np4			
IND	5-10 np4		ATT HET DOCK	
IND  Material Receipt: Subgrade Acceptance:	5-10 Apt	LD -1-03,	ATL NOT presen	
Material Receipt:  Subgrade Acceptance: Panel Deployment:	5-10 Apt	LD 10-1-03,	ATL NOT presen	<u> </u>
IND  Material Receipt:  Subgrade Acceptance:  Panel Deployment:  Panel Seaming:	5-10 Apt	w) 10-1-03,	ATL NOT presen	
Material Receipt: Subgrade Acceptance: Panel Deployment: Panel Seaming: Air Channel Testing:	5-10 APH		ATL NOT prasen	
Material Receipt: Subgrade Acceptance: Panel Deployment: Panel Seaming: Air Channel Testing: Destructive Testing:	5-10 APH		ATL NOT presen	
Material Receipt: Subgrade Acceptance: Panel Deployment: Panel Seaming: Air Channel Testing: Destructive Testing: Repair: Vaccum Testing:	5-10 Apt			
Material Receipt: Subgrade Acceptance: Panel Deployment: Panel Seaming: Air Channel Testing: Destructive Testing: Repair: Vaccum Testing:	5-10 Apt			
Material Receipt: Subgrade Acceptance: Panel Deployment: Panel Seaming: Air Channel Testing: Destructive Testing: Repair: Vaccum Testing:	5-10 Apt  Stropms prove  engrave for full	to printing Sa	ye from cours	
Material Receipt: Subgrade Acceptance: Panel Deployment: Panel Seaming: Air Channel Testing: Destructive Testing: Repair: Vaccum Testing:	5-10 Apt  Strap - 5 Aras  engrave for fly	to power Sa	ye from cours	

## PANEL SEAMING RECORD

Client:
Project:
Date: ormer I Fo tocility Job No:
ATL Representative:
Sheet: MAR WIRUR

ST 2318N-01-10-03

7.20		76	256		7.01/2.1	750		7 7	2.0	1,54/2
		11			1 2 2 2	╁		*		\ \ \
		0	200	** ** * * * * * * * * * * * * * * * * *	70.67	7.0		74 #	0.	25/256
		26	2,16		0.21%	760		# 22	Mo.	254/1622
		26	925		CIA	1		# 22	n.0	150/250
	-	97	516		6.3./27	1		* 22	77.0	550/250
DS-2		75	829					124	N,O	03/1256
		57	116			1		12.	N.O.	156/189
		23	326					1 1/2	No.	02/1030
		23	5/5					# 21	N.O.	120 120
		32	7.18					12 # 21	N.O.	824/12d
		1/4	806					12 X	NO.	for pel
		1/4	200		70%	750		124	No.	
Destructive Test No.	Daire Tested	Length	Time	ł	Speed	Temperature	Temperature	Device	Technician	Seamed
			Din ion	Start.	Machine	Weld	Preheat	Welding	Welding	Panels

## PANEL SEAMING RECORD

15 desd oh/ssd कर्मानिहरू इ.जि.चीन्य 0,3/654 Client: Project: 0hd/65d Date: Panels Scamed Welding Technician 1.0, 0,1 70, Royal Edvisodantal Z , O', 2.0, tormer I Fortacility 4 2 # 22 # 21 124 # 22 Welding Device Temperature Preheat Temperature 760 750 Weld 7,0 14 1.3/27 Sheet: Job No: ATL Representative: Machine Speed Start Time 226 145 400 10 Finish Time 14 17-15-18N-01-10-03 570 570 705 22 47 Seam Length 2 Date Tested Destructive Test No.

2053

## SEAM TESTING RECORD

Client: Royal Environmental
Project: SH tormer Its tacility
Date: 10-505

721/259

props

A

Panels Seamed

Technician

7

P39/640

65d/61d

proposa

Job No: ST ZJIBN-01-10-03
ATL Representative: Mark CICEUC

Sheet:

80% 707 115 75/ 417 429 423 258 727 307 12817 10% 252 Start Time 454 325 ってい 225 かれん イン Finish Time 422 420 201 203 228 21.8 818 Air Channel Test Pressure 40 b 40 h W y 0 4 V 0 9 G 40 Start 8 02 9 Finish Pressure 00 0 W 20 4 8 9 S W 9 40 9 Vacuum Test なと 224 PARS DAX 8 5240 138 Berg 2 Ser. を 1 2220 Result Pass/Fail Rangi E08 10 4 203 D. R.

P13/239

b14/b2d

DIS/039

10/039

650/210

450/310

150/610

## SEAM TESTING RECORD

Client:
Project:
Date: Entormer I Hotacily

> Job No:
> ATL Representative: St 2218N-01-10-03

Sheet:

MARK MIRNE l of

255 405 755 302 Start Time 259 200 Finish Time 808 707 Air Channel Test Ø Pressure 9 g 40 Start Finish Pressure 40 d 4 S Vacuum Test PASS 22.50 PASS 245 Result Pass/Fail Repair Number Retest Date

pzs/pyo

P24/p40

pzs/p40

Pzsps9

しな

Panels Seamed

Technician

(

## ATLANTIC TESTING LABORATORIES, Limited

## DAILY FIELD REPORT

WEATHER CONDITIONS  TIME  7 50   7 20   3 30   TEMPERATURE (°F)   4/1   49   5/1  CONDITIONS  Clarry   5/10   5/10   WIND  Material Receipt: Subgrade Acceptance: Fanel Deployment: Panel Seaming: Air Channel Testing: Destructive Testing:		NILBUR ENGLADE LANG	REPORT NO.: TOTAL SQ. FT. II TOTAL LINEAL : MASTER WELDE SUPERVISOR:	
TEMPERATURE (°F)  CONDITIONS  CLOONY  Brief - Internifunt Cloudy  SHOWERS - CLOUNY  Material Receipt:  Subgrade Acceptance:  Panel Deployment:  Panel Seaming:  Air Channel Testing:  Destructive Testing:	: :	WEATHER		RUSS Jack
TEMPERATURE (°F) 41 49 51  CONDITIONS CLarry Brief - Internifient Clarry Stowers - cleans Clarry Stowers - cleans Clarry Subgrade Acceptance:  Fanel Deployment:  Fanel Seaming:  Air Channel Testing:  Destructive Testing:	TIME	7 30	12 20	330
Mind S-10 5-10 5-10  Material Receipt: Subgrade Acceptance: Annel Deployment: Panel Seaming: Air Channel Testing: Destructive Testing:	TEMPERATURE (°F)	41	49	3.000
Material Receipt:  Subgrade Acceptance:  Panel Deployment:  Panel Seaming:  Air Channel Testing:  Destructive Testing:	CONDITIONS		Brief - Internite SHOWERS - clean	of cloudy
Subgrade Acceptance:  Panel Deployment:  Panel Seaming:  Air Channel Testing:  Destructive Testing:	WIND	5-10		1
(Vaccum Testing:  Archive - Geography of first for 2016  8966/9051/8794/9048/9048/9048/9038/8	Subgrade Acceptance:  Panel Deployment:  Panel Seaming:  Air Channel Testing:  Destructive Testing:  Repair PATONAG:  Vaccum Testing:			and fam Dale

## al

## ATLANTIC TESTING LABORATORIES, Limited

## SUBGRADE ACCEPTANCE FORM

Client: Roya L ENVIONMENT Project: G.M. FOCMEC, FFC FACILITY ATL Rep.: MANK MINTER	Date: 10 C C S  Report No.: 57 Z 518 N - 02 - 10-03  Contractor: Royal Environment 6  Installer: NW Enfloats Line on
I hereby state that I have inspected the subg subgrade to be acceptable for placement of the liner.	rade surface and find the condition of this geosynthetic clay liner and/or geomembrane
This acceptance is not approval for the co specifications.	ntractor meeting the fill and compaction
Panel Number(s): 42, 45, 44, 45, 57, 57, 57, 57, 57, 57	16 47 48 47 50 51 52 55
Panel Location(s):	
Installation Contractor	
Signature  5-pezvi Su-z  Title	

## PANEL DEPLOYMENT RECORD

Date: Project: Client: ROYAL ENVIRONMENTAL It's tocility

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SAUGR

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2252

84.06

S

Luest

777

05.K

7425

7222

5220

224

8528

0

Shook

Number

Roll Identification

Thickness (mils)

(smooth/textured)

Panel Width (feet)

Panel Length

(feet)

Panel Area (feet<sup>2</sup>)

Comments

Surface

Panel

Job No: Sheet: ATL Representative:

STESIPN-02-10-03 DAIR MICEUR

얆

2914500

1 518

## PANEL DEPLOYMENT RECORD

Client:
Project:
Date:

Job No:
ATL Representative:
Sheet:

STZ518N-02-10-03

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						-	
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	<b>V</b>						
	2,2454	193	un	77971	70	70-0	0
	-			4	ここ	ながら	すりく
	7875	750	27/2	Noot	90	276	2
	1/385	200	22/2	Shork	do	2768	1
	142/2	1	2,47	210017			2 2 2
	2001	· i		Z.,,,,,	- Oh -	7208	25.4
	12556	222	22/2	520/n   22/2	Yo	9051	484
Comments	(feet)	(feet)	(feet)	(smooth/textured)	(mils)	Identification	Number
	Danel Area	Panel Lenoth	Panel Width	Surface	Thickness	KOL	Latter

1 4229/00 = 8.5

ન: <u>;`</u>

## FIELD DESTRUCTIVE TEST RECORD

8-50 300 6-SQ 212 1-SQ Client: Project: Date: Test Number POHL EMNOOMOUTH Panels Seamed 120 DHC. 10-6-63 GN Former FRG Tacility T. P. Ó Z.0. など Welding Technician # 27 74 Shear Peel Shear Shear Pe Pecl Shear Shear Peel Pec Pesi Shear Test Shook Parent Material Job No: c4/67 Sheet: ATL Representative: 14/67 63/63 1 Test 1 2 62 12/12 24/11 52/12 Z 52 アト Test 2 27/18 70/29 MARK LINGUR 14/27 70 70 77 Test 3 (ppi) 572518N-02-10-03 12/21 71/08 12/16 9 67 CA Test 4 (ppi) 7/17 L3/4 52/12 47 75 70 Test 5 (ppi) せない Sord PASS 250 Pass/Fail X

22

Tri-planar geonet MQC – Test results



## QUALITY CONTROL SUMMARY Tenax Triplanar Tendrain 570-2

Date: September 18, 2003 Batch # 1

Project: GM Syracuse

Submitted to:
Jim Magnoli
New England Liner Systems
35 Wooster Court
Bristol, CT 06010



## **Table of Contents**

Certification and Specification	1
Geonet Report and MQC	2
Geotextile MQC	3
Geocomposite MOC	4



Office: 410-522-7000 Fax: 410-522-7015 Order Line: (800) 356-8495 Waste Mgt: (800) US-GRIDS

## **SECTION ONE**

## **CERTIFICATION AND SPECIFICATON**

Performance in Plastic Technology<sup>su</sup>



RE: GM Syracuse

Tendrain 570-2 (200' x 6.7')

Batch # 1

September 18, 2003

Tenax Corporation certifies per the required frequency the following roll numbers,

0300001 0300002 0300003 0300004 0300005 0300006 0300007 0300008 0300009 0300010 0300011 0300012 0300013 0300014 0300015 0300016 0300017 0300018 0300019 0300020 0300021 0300022 0300023 0300024 0300025 0300026 0300027 0300028 0300029 0300030 0300031 0300032 0300033 0300034 0300035 0300036 0300037 0300038 0300039 0300040 0300041 0300042 0300043 0300044 0300045 0300046 0300047 0300048 0300049 0300050 0300051 0300052 0300053 0300054 0300055 0300056 0300057 0300058 0300059 0300060 0300061 0300062 0300063 0300064 0300065 0300066 0300067 0300068 0300069 0300070 0300071 0300072 0300073 0300074 0300075 0300076 0300077 0300078 0300079 0300080 0300081 0300082 0300083 0300084 0300085 0300086 0300087 0300088 0300089 0300090 0300091 0300092 0300093 0300094 0300095 0300096 0300097 0300098 0300099 0300100 0300101 0300102 0300113 0300114 0300115 0300116 0300117 0300118 0300119 0300120 0300121 0300122 0300123 0300124 0300125

of Tendrain570-2, to be shipped to the above referenced project are in accordance with the properties listed throughout this submittal showing compliance with the attached specifications. Those rolls were manufactured in accordance with the Tenax Manufacturing Quality Control / Quality Assurance Plan.

This MQC submittal consists of the following sections:

Section 2 contains the geonet Manufacturing Quality Control (MQC); Section 3 entails the MQC on the geotextile used for the manufacture of these geocomposites. Section 4 describes in detail all geocomposites roll numbers, describe their respective geotextile roll numbers and geonet roll numbers, as well as geocomposite transmissivity and peel strength.

Respectfully submitted,

Tim Bauters, Ph.D.

Senior Quality Control Manager

Performance in Plastic Technology<sup>sm</sup>



4800 East Monument Street Baltimore, MD 21205 1-800-358-8495

**UBLE-SIDED GEOCOMPOSITE** 

GM SY , NYC

d = Maximum Value

ne drainage geocomposite is comprised of a tri- and bottom ribs and with a thermally bonded, no	planar geonet struc n-woven geotextile (	cture consisting of thick on both sides. The pro	supporting ribs with diago duct is capable of providing	nally placed top high Transmissivity
in a soil environment under high normal loads an	d will have properti	es conforming with the	values and test methods li	sted below:
PROPERTIES	TEST METHOD	<u>UNIT</u>	VALUE	<b>QUALIFIER</b>
				<del></del> ,
GEONET CORE				
Tensile Strength - MD	ASTM D4595	lb/ft (kN/m)	1000 (14.6)	c, Note 1, 4
Compressive Behavior (% Retained thickness)	ACTN A D ACC		·	
@ 40,000 psf (short term)	ASTM D1621	%	<b>5</b> 0	a, Note 2, 4
@25,000 psf (10,000 hours)		%	<b>6</b> 5	a, Note 4
Density	ASTM D1505	g/cm³	0.94	c, Note 4
Melt Flow Index	ASTM D1238	g/10 min.	1.0	d, note 4
Carbon Black Content	ASTM D4218	%	2.0	a, Note 4
Thickness	ASTM D5199	mils (mm)	275 (7.0)	c, Note 3, 4
GEOTEXTILE				
Apparent Opening Size (AOS)	ASTM D4751	US Sieve (mm)	70 (0.21)	b, Note 4
Weight	<b>ASTM D3776</b>	oz/yd² (g/m²)	6 (203)	b, Note 4
Water Flow Rate	ASTM D4491	gal/min/ft² (lpm/m²)	110 (4483)	b, Note 4
Permeability	ASTM D4491	cm/sec	0.24	b, Note 4
Permittivity	ASTM D4491	sec <sup>-1</sup>	1.3	b, Note 4
Puncture Strength	ASTM D4833	lbs (N)	80 (355)	b, Note 4
Trapezoid Tear	ASTM D4533	lbs (N)	65 (290)	b, Note 4
Grab Tensile Strength	ASTM D4632	lbs (N)	160 (712)	b, Note 4
Grab Elongation-MD	ASTM D4632	103 (14) %	50	b, Note 4
Mullen Burst	ASTM D3786	psi (kPa)	285 (1965)	b, Note 4
'Resistance @500 Hours	ASTM D4355	%	70	b, Note 4
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7.01111.0-1000	70		D, 14018 4
GEOCOMPOSITE				
Roll Width		ft (m)	6.7 (2.0)	a, Note 5
Roll Length		ft (m)	200 (61)	a, Note 5
Ply Adhesion	ASTM F904	lb/in (N/m)	1.0 (175)	c, Note 6
	(modified)			
HYDRAULIC BEHAVIOR OF GEOCOMPOSITE				
Transmissivity - MD				c, Notes 7
Gradient/Load:			10,000 psf (480 kPa)	•
0.1	<b>ASTM D 4716</b>	m <sup>2</sup> /sec	1.5x10 <sup>-3</sup>	
Qualifiers:	a = Typical Value		b = Minimum Average Roll	Value (MARV)

### NOTES:

1. Tensile properties tested by manufacturer every 50,000 square feet of product per ASTM D4595 with a specimen width of 8.0 in. and cross-head speed of 0.4 in/min

c = Minimum Average Value

- 2. Short term compressive behavior tested by manufacturer every 50,000 square feet of product per ASTM D1621 with a 4 in.x4 in. 4 in.x4 in. specimen and a constant rate of strain of 0.04 in./min.
- 3. Thickness measured by manufacturer every 50,000 square feet of product per ASTM D5199 with a 2.22 in. diameter presser foot and 2.9 psi pressure.
- 4. Geotextile and geonet properties listed are prior to lamination. Geotextile is tested at the industry standard frequency.
- 5. Roll dimensions are measured at the time of manufacture.
- 6. Ply Adhesion is tested by the manufacturer every 100,000 sf of production per modified ASTM F904, with a 2 inch wide (5 longitudinal ribs) by 10 inch long strip. The geotextile bonded to either side of the geonet is pulled apart at a peeling rate of 12 in/min., for at least 4 inches of peeling distance. The reported value for each laminated side is the average of the "peak" values from 5 tested samples. The 5 samples are cut evenly distributed along the roll width with a 1 foot margin from both edges of the roll.
- 7. Geocomposite transmissivity measured by manufacturer every 200,000 square feet of product as per ASTM D4716-99 with testing boundary conditions as follows: steel plate / uniform sand / geocomposite / 60 mil HDPE geomembrane / steel plate, and seating period of 100 hours.



Office: 410-522-7000 Order Line: (800) 356-8495
Fax: 410-522-7015 Waste Mgt: (800) US-GRIDS

## SECTION TWO GEONET REPORT AND MQC

Performance in Plastic Technology<sup>sм</sup>

Office: (410) 522-7000 On Fax: (410) 522-7015 We Web Site: www.tenaxus.com

Order Line: (800) 356-8495 Waste Mgt: (800) US-GRIDS

### **Geonet MQC Test Results**

**Product** 

TD 5

**Project** 

Lot#

Batch 1

**Dimensions** 

6.7' x 1840'

Tenax **Testing Lab** 

	Geonet Roll	Date Tested	Thickness ASTM D5199 (mils)	Density ASTM D1505 (g/cm3)	CarbonBlack ASTM D4218 (%)	MFI ASTM D1238 (g/10min)	Tensile Strength ASTM D4595 (lb/ft)	
	0300001	1/27/2003	310	0.953	2.54	0.462	1140	
	0300002	2/4/2003	322	0.951	2.64	0.503	1248	
	0300005	2/5/2003	297	0.951	2.57	0.501	1140	
	0300008	2/6/2003	323	0.949	2.50	0.426	1344	
	0300011	2/7/2003	325	0.949	2.55	0.480	1299	
	0300015	2/20/2003	302	0.952	2.40	0.419	1296	
\verage			313	0.951	2.53	0.465	1245	
Standard Dev.			12	0.002	0.08	0.036	86	
Specifications			275	0.940	2.00	<1	1000	

Compression		•	
Load (psf)	Roll #	Thickness Retained (%)	Specification (%)
40000			50
	0300001	54.00	50
	0300002	60.40	50
	0300005	55.00	50 .
	0300008	54.00	50
	0300011	53.50	50
	0300015	54.00	50
A	verage (Specs)	54.95	50

Tested by

9/18/2003

Checked by

David Mitchell

Date

9/18/2003



Office: 410-522-7000 Fax: 410-522-7015 Order Line: (800) 356-8495 Waste Mgt: (800) US-GRIDS

## **SECTION THREE**

GEOTEXTILE MQC

Performance in Plastic Technology<sup>su</sup>

Tenax Mfg. AL .C QA/QC Laboratory Evergreen, Alabama

Nonwoven Test Rolls Lot Summary

Roll Dimensions: 7ft 5in x 1020ft

Color: BLACK Lot Number: 30011

Product Grade: TG600

18-Sep

Reviewed By: ا چ Engineer: Page 1 of 1

,	A.O.S.	(mm)	0.125			0.090								0.098			0.104	0.018
	Water	Flow (gpm/ft2)	1226			135.4								161.8			139.9	20.0
	Hydraulic Tests ASTM D4491	Permit. Perm.(Kv) (sec-1) (cm/sec)	0.307			0.296								0.395			0.333	0.054
	Hydrac ASTE	Permit. (sec-1)	1.64		•	1.81								2.18			1.87	.27
	Thickness ASTM	D5199 (mils)	73		7	73			2	7		2	73	72			72.0	1.6
	.Tear D4533	8	104.3		101.4	97.3			<b>3</b>	96.5		105.0	94.5	133.1	···		103.3	12.8
	Trap.Tear ASTM D4533	MD (ibs)	89.5		93.7	107.4			105.6	103.1		116.8	95.8	139.1			106.4	15.8
	Puncture Resistance	ASTM D4833 (Ibs)	122.0		120.2	128.9			125.3	118.3		128.1	133.3	120.8			124.6	5.2
	M. Burst ASTM	D3786 (psl)	385.7	371.4	390.3	372.0	349.7		384.0	369.5		359.0	344.1	362.7	353.6	386.7	369.1	15.5
e O	C.D.	Elong (%)	88.1	6.19	65.5	62.8	61.9		59.9	67.3		62.9	61.2	9.09	63.6	54.4	62.8	3.7
/Elongat D4632	ď	Tens. (Ibs.)	275.3	265.4	272.2	286.7	303.3		280.4	280.4		280.3	274.5	297.8	294.8	275.2	282.2	11.3
Grab Tensile/Elongation ASTM D4632	Æ.D.	Elong (%)	168.6	179.8	175.5	161.4	162.1		159.2	163.4		171.8	164.3	166.4	166.1	157.8	166.4	6.6
Ğ	ž	Tens. (Ibs)	232.0	268.9	243.5	268.8	274.4		264.3	255.7		278.6	276.9	274.2	264.2	242.2	262.0	15.3
	Weight	D\$261 (oz/yd2)	6.4	6.4	6.4	6.3	6.2	6.3	6.3	6.2	6.4	6.3	6.3	6.4	6.1	6.1	6.3	<del></del>
	Test	Date	01/23/2003	01/23/2003			01/23/2003	01/23/2003	01/24/2003	01/24/2003				01/24/2003	01/24/2003	01/27/2003	Average =	Standard Deviation =
	E S	Š.	3001242	3001244	3001249	3001258	3001262	3001263	3001271	3001279	3001287	3001291	3001303	3001315	3001317	3001322		Standard D

18-Sep

Product Grade: TG600 Lot Number: 30013

Lot Number: 30013
Color: BLACK
Roll Dimensions: 7ft 5in x 1020ft

Tenax Mfg. AL .C QA/QC Laboratory Evergreen, Alabama Nonwoven Test Rolls Lot Summary

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		Page 1 of 3
Reviewed By: /		
œ ·	OA:	

	A.O.S. ASTM	D4751 (mm)	0.117				0.094												0.097							0.097					0.100					0.110
	Water	Flow (gpm/ft2)	131.4				129.3												137.1							194.5					174.5					205.5
	Hydraulic Teets ASTM D4491	Permit. Perm.(Kv) sec-1) (cm/sec)	0.300				0.290												0.358							0.453					0.441					0.477
	Hydrau ASTISA	Permit. (sec-1)	1.78				1.73												1.83							2.60					2.33					2.75
	Thickness ASTM	D\$199 (mils)	79		2		75		78		4			7		22	7		20	92	72	75		8	22	89	22	69	73	7	88	7	2	92	2	74
	Teer 24533	8	102.4		88.9		98.8		102.5		93.7			98.1		88.3	97.4		97.4	868	99.3	102.3		108.7	103.3	124.3	1124	140.9	137.8	136.5	118.9	125.1	113.9	134.9	135.9	123.1
	Trap.Tear ASTM D4533	MD (Ibs)	90.3		102.3		89.3		105.8		87.3			92.5		98.2	97.4		101.5	110.6	119.9	102.6		109.1	135.9	120.8	118.1	147.7	145.0	154.5	113.9	115.0	113.2	147.0	130.6	128.0
	Puncture Resistance	ASTM D4833 (lbs)	131.6		122.7		121.3		127.6		127.5			129.7		128.5	121.3		129.2	130.1	127.4	121.3		118.1	122.2	122.3	125.2	128.2	130.8	124.7	121.1	120.8	119.9	123.6	122.1	123.5
	M. Burst ASTM	D3786 (psl)	404.9	398.0	398.0		385.4	398.9	397.1		389.4			389.1		363.2	351.6		350.3	375.3	372.1	374.1		371.9	363.1	332.8	367.1	367.3	377.4	353.3	348.4	356.2	355.7	343.8	352.0	359.7
Ę	c.	Elong (%)	22.0	57.3	64.2		53.8	53.4	60.4		55.6			53.0		59.9	<b>54.8</b>		55.6	57.3	55.8	55.5		58.9	54.8	58.6	57.9	55.8	70.1	69.3	60.0	62.2	62.6	55.9	6.1.9	61.7
Grab Tensile/Elongation ASTM D4632	C.D.	Tens. (Ibs)	283.1	285.6	271.6		285.3	270.7	289.4		284.6			265.5		281.9	271.0		281.0	277.4	253.8	265.2		287.6	263.2	261.8	269.4	268.5	270.4	268.8	274.7	261.4	268.4	261.0	271.0	267.7
b Tensile/Elong ASTM D4632		Elong (%)	149.2	145.0	156.0		137.8	140.9	140.3		136.7			130.3		140.0	141.7		140.1	144.0	144.5	147.1		139.4	137.3	145.4	140.0	133.7	150.6	148.3	143.5	139.3	140.5	157.7	148.1	156.3
g.	W.D.	Tens. (Ibs)	271.4	261.6	268.4		272.7	272.3	274.5		269.4			259.0		262.4	254.2		259.2	268.0	258.1	253.0		256.7	250.8	268.2	247.1	250.7	275.2	249.5	247.1	247.7	245.2	262.2	262.9	274.1
	Weight	D5261 (oz/yd2)	6.5	6.4	6.4	6.2	9.9	6.6	6.5	6.2	6.3	6.4	6.4	6.6	6.3	6.2	6.3	6.2	6.0	6.4	6.4	6.3	6.1	6.1	6.0	6.0	6.3	6.2	6.3	6.1	6.1	6.1	6.0	6.4	6.2	6.1
		Date	01/27/2003	01/27/2003	01/27/2003	01/27/2003	01/27/2003	01/27/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/29/2003	01/29/2003	01/29/2003	01/29/2003	01/29/2003	01/29/2003	01/29/2003	01/29/2003	01/30/2003	01/30/2003	01/30/2003	01/30/2003	01/30/2003	01/30/2003	01/30/2003	01/30/2003
	Roi	Š.	3001496	3001499	3001504	3001512	3001514	3001516	3001522	3001525	3001532	3001536	3001540	3001544	3001552	3001557	3001568	3001577	3001578	3001588	3001596	3001608	3001612	3001620	3001632	3001642	3001654	3001666	3001678	3001690	3001698	3001710	3001718	3001730	3001742	3001754

18-Set J

Product Grade: TG600 Lot Number: 30013

Color: BLACK

Roll Dimensions: 7ft Sin x 1020ft

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Tenax Mfg. AL CA/QC Laboratory
Evergreen, Alabama Nonwoven Test Rolls Lot Summary

	ASTM	(mm)								0.120					0.120						. !	0.110		0.110	0.115	0.100		00 F.O					0.100			
	Water	Flow (gpm/ft2)								127.9					134.9							128.1		134.7	125.9	133.7		129.6					130.8			
	Hydraulic Tests ASTM D4491	Permit. Perm.(Kv) sec-1) (cm/sec)								0.344					0.330	•						0.345	;	0.342	0.348	0.335		0.358				!	0.312			
	Hydrau ASTM	Permit. (sec-1)								1.71					1.8							<b>.</b> .		1.82	1.73	1.79	;	7.85 26					1.75			
	Thickness ASTM	D\$199 (mile)	76		;	8		2	29	92	78	8		82	8	•	ß		29		75	7		76	8	. 75	1	23	ì	*	į	<b>*</b>	22	į	75	22
	-ear -4533	8	131.0		- n	9.8		<u>8</u>	128.3	100.1	107.7	111.7		106.9	10.0		97.9		<b>88</b> .6		9 6.	85.6		<b>6</b> .	¥.	₹. 8		95.0		3		60.9	109.8		9 6	98 5
	Trap.Tear ASTM D4533	MD (Ibs)	128.3			<b>2</b> .		91.5	124.3	118.9	107.3	92.1		99.1	102.5		93.6		88.1		87.1	99.7		95.7	<b>9</b> 7.	<b>¥</b>		97.1	į	4.78		92.3	109.7	!	109.6	108.4
	Puncture Resistance	ASTIN D4833 (lbs)	122.9			128.1		131.7	134.6	125.0	127.8	129.1		121.1	119.7		124.3		120.9		111.3	123.7		128.0	123.8	133.9		115.1	,	122.4		123.6	127.0		125.8	122.8
		D3786 (psl)	357.0			348.4		353.0	373.1	370.2	361.2	371.8		363.6	359.3	343.1	350.3		342.6		353.5	346.7	357.7	343.7	356.4	357.6	357.7	361.9		353.2	345.3	345.0	341.5		362.1	355.3
ڃ		Elong (%)	83.8			63.3		67.0	56.7	53.3	57.7	56.8		55.2	59.3	61.6	58.3		54.0		57.1	53.5	57.1	52.1	56.0	57.2	58.5	58.0		<b>2</b> 9.6		59.3	56.3		55.8	61.6
Grab Tensile/Elongation	C.D.	Tens. (ibs)	259.8			274.8		260.3	287.6	277.5	295.3	274.1		269.8	306.3	253.0	255.0		249.1		247.7	256.5	244.4	246.4	244.2	261.5		253.1		262.4		252.5	257.7		261.9	257.0
b Tensile		Elong (%)	159.7			151.3		158.9	152.9	141.3	148.2	137.8		138.8	143.8	136.5	152.7		149.0		138.8	134.6	142.1	139.8	140.7	143.4	148.2	147.6		155.1		150.3	.159.3		160.3	159.9
E	Q. ₹D	Tens.	254.4			260.2		250.4	243.8	247.4	268.9	234.9		243.5	272.8	250.7	256.8	•	236.8		.219.5	222.8	227.3	224.5	225.5	238.8	236.3	259.7		251.5		246.0	260.3		249.8	243.8
	Weight	D5261 (oz/yd2)	6.0	6.1	6.3	6.1	6.5	6.3	6.3	6.3	6.2	6.3	6.3	6.3	6.3	6.2	6.2	6.1	6.3	6.3	6.2	6.2	6.0	6,2	6.1	6.2	6.4	6.4	6.1	6.3	6.1	6.1	6.1	6.2	6.2	6.2
		Date	01/31/2003	01/31/2003	01/31/2003	01/31/2003	01/31/2003	01/31/2003	01/31/2003	01/31/2003	01/31/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/03/2003	02/03/2003
	Roil	Š	3001766	3001771	3001774	3001778	3001786	3001790	3001800	3001812	3001822	3001834	3001836	3001846	3001848	3001850	3001857	3001863	3001868	3001873	3001876	3001886	3001897	3001898	3001902	3001907	3001910	3001919	3001946	3001952	3001956	3001962	3001972	3001976	3001982	3001990

							Í									
٦	Lot Number: 30013	013						Nonwoven Test	Test							
	Color: BLACK	ACK						Rolls								•
Roll Dim	Roll Dimensions: 7ft 5in x 1020ft	5in × 102	뜡					Lot Summary	ary							Page 3 of 3
			5	ab Tensile ASTM	Grab Tensile/Elongation ASTM D4632				•			1	į		A.O.S.	
<u> </u>	Test	Weight	ž	₩.D.	C.D.		M. Burst ASTM	Puncture Resistance	ASTIN DA533		ASTM	ASTM	ASTM D4491	Water	ASTIN DA75	
Š.	Date	D5261 (oz/yd2)	Terrs. (Ibs)	Elong (%)	Tens. (lbs)	Elong (%)	D3786 (psi)	ASTM D4833 (Ibs)	(sq)	8	(mils)	(sec-1)	1	(gpm/ft2)	(mm)	
3001998	3001998 02/03/2003	6.3								<del>-</del>	i	9	0000	440.9	0 100	
3001999	02/02/2003	6.3	248.0	147.3	253.9	53.2	348.6	121.9	92.6	87.6	e C	9/.	6000	4	5	
3002000	02/03/2003	6.1						!			. 8	0	777	8 000	G	
3002002	02/03/2003	6.4	271.9	164.3	284.2	59.1	357.8	120.3	105.1	111.7	۲ <u>۱</u>	<b>7</b> .00	0.400	200.0		
3002012	02/03/2003	9.0	225.6	147.2	261.6	53.6	358.9	122.0		113.7	2					
3002019	02/03/2003	6.4	253.0	147.7	259.3	60.0	372.4			-						
	Average	6.2	253.0	145.9	267.2	58.1	362.5	124.5	108.0	105.6	73.6	1.98	0.364	147.4	0.105	
Chanderd	Condend Deviation 8	,	474	4	13.4	4.0	16.6	4.6	17.3	15.6	4.0	.37	0.059	28.5	600.0	
A RIBRIED		Ą	2	?	5	?	2	1								

Tenax Mfg. AL CA/QC Laboratory
Evergreen, Alabama

Product Grade: TG600

18-Sep

18-5. J03

Product Grade: TG600 Lot Number: 20134

Roll Dimensions: 7ft 5in x 1000ft Color: BLUE

Nonwoven Test Rolls Lot Summary

Reviewed By: ۱ ۶ Engineer: \_\_ Tenax Mfg. A. ..LC QA/QC Laboratory Evergreen, Alabama

Page 1 of 1

A0.8.	ASTM D4751	(mm)	0.093				960'0	0.095	0.094		0.089		0.094	0.110		0.101	0.094	0.100				0.105	0.099	0.109								800.0	0.096	0.00	
	Water	(gpm/ft2)	157.0				166.9	189.0	181.3	178.0	160.6	163.9	120.0	151.7		142.7	133.8	1204				183.9	178.0	177.6					•			7.767	ר.ואָר	21.5	
Hodracilic Teats	ASTM D4491	(cm/sec)	0.458				0.477	0.482	0.528	0.511	0.544	0.514	0.373	0.356		0.369	0.390	380	3			0.477	0.500	0.481									0.455	0.066	
Ledra	ASTM	(sec-1)	2.10				2.25	2.52	2.42	2.38	2.14	2.19	99.	2.03		191	1 70	2 .	2			2.45	2.38	2.37				•					2.15	87. 97.	
	ASTIN DE199	(mils)	11		92	2		æ	3		8		8	8	}		a	8 3	8			80	<b>3</b>			82	}		88	87			85.3	4.3	
 -		3	89.		2	<u>1</u>		0 0 1	<u> </u>		114.0		143.1	150.5	}			ر <del>۱۹</del> ۱ در ۱۹۱	2. 2.			100	}			104.0			102.4	13.3		-	118.7	18.7	
i	ASTIN D4533	(pa)	109.2			4.201					100.2		132.1					٠.	125.4			44				8 70	9		1.16	1109	2		110.6	14.4	
	Puncture Resistance	ASTM D4833 (fbs)	107.2	!		114.5		8	0.77		125.6		130 1	1100	6.71			118.9	123.1			,,,	?			700	150.3		124.9	1407	<u>.</u>		120.4	6.7	
	_	D3786 A (psi)	247.0	6. 14. c	366.2	340.1	346.8		351.8		287.0	6. 200	440	273.0	5.0.0	375.8	3/4./	381.4	396.9	388.6	423.6		385.8			9	2007		285.2	400	402.1	+01.	381.2	23.5	
_		Elong (%	9	0.	9.09 9.09	4.69	66.3		27.8 27.8		5		9	9 8	è			<b>2</b> .	52.5	51.1		1	29.				3		ŝ	0.70	5. 50 5. 50 5. 50	8	61.0	5.2	
Grab Tensile/Elongation ASTM D4632	C.D.	Tens.	9 790	0.102	256.7	285.1	262.5		285.1		9	7.007	3	3.11.8	277.1			270.5	269.4	286.2			285.1				285.8		i	2/3.0	294.5	246.9	276.1	16.1	: :
ASTM I	٠.	Elong		131./	125.8	134.3	128.5		121.4			134.0		153.8	125.2			128.7	125.3	129.3			137.7				139.7		;	141.4	130.3	127.8	132.2	8.0	;
Gra	Q.	Tens.		183.6	197.3	193.5	200.0		200.8			229.1		232.7	218.2			204.7	212.0	225.1			215.7				227.1		•	210.0	200.2	197.4	208.9	14.0	<u>;</u>
	Weight	D5261 (oz/yd2)		4.7	7.7	7.0	7.5		7.7	7.8		7.9		æ, 	7.4	7.5	7.2	9.2	7.3	7:1	7.2	7.4	7.7	7.8		7.3	7.5	7.8	7.4	7.7	7.5	7.8	7.5		3
		Date 1		10/28/2002	10/28/2002	10/28/2002	10/28/2002	10/29/2002	10/28/2002	10/28/2002	10/29/2002	10/28/2002	10/29/2002	10/28/2002	10/28/2002	10/28/2002	10/29/2002	10/29/2002	10/29/2002	10/29/2002	10/29/2002	10/29/2002	10/29/2002	10/29/2002	10/29/2002	10/29/2002	10/29/2002	10/29/2002	10/29/2002	10/29/2002	10/29/2002	10/29/2002	Average	Spring Parketing	Det larvii -
	1100	Š.		2017911	2017915	2017918	2017918	2017920	2017921	2017924	2017925	2017928	2017929	2017932	2017937	2017941	2017945	2017947	2017951	2017955	2017959	2017962	2017963	2017967	2017968	2017971	2017975	2017977	2017979	2017983	2017987	2017996		2 bandond	OUTURE



SECTION FOUR
GEOCOMPOSITE MQC

Performance in Plastic Technology<sup>s™</sup>

UOB: GM Syracuse (Fisher Guide) Batch: GM Syracuse (Fisher Guide) COMPOSITE & NET # T1 0300001 0300002 '				Тор	Bottom		ASTM D4718	
	r Guide)					ASTM F904	Transmisslvity* (m2/sec)	
	Ę	Bottom		Peel Adhesion	Peel Adheslon	Peel Adhesion	Value	
	TEXTILE #	TEXTILE #	Roll Length (FT)	lbs/in (avg.)	lbs/ln (avg.)	lbs/m (req.)	(required transmissivity)	
	2017972	2016489	500	1.25	1.60	<b>-</b>	2.00 x 10 7	
_	2017972	2016489	88					
	2017929	2016489	8 8		* a confining press	. a confining pressure of 10000 per at a gradient of .10	a gradient of .10	
_	2017828	2016469	8 8		with water at 20 i	with water at 20 degrees C with houndary conditions	ndary conditions	
_	2017929	2017931	8 8	minter / otale for	/etileonmoo/boss mir	60 mil HDPE/plate	A plate / uniform sand/commonstate R0 mil HDPE/plate and a sessing time of 100 hours	
_	2017929	188/102	8 8	o piata um			0	
	2017929	2017931	8 8					
	2017985	2017931	8					
0300000 0300003	2017985	2017964	500					
0300010 0300003	2017985	2017964	8					
0300011 0300003	2017985	2017964	200					
	2017985	2017964	8					
	2017984	2017964	8					
	2017884	2017980	8					
	2017984	2017980	8				•	
	2017984	2017980	90					
	2017884	2017980	82					
0300018 0300004	2017954	2017980	8					
	2017854	2017921	ଛ					
	2017954	2017921	8					
	2017954	2017921	8					
	2017954	2017921	8 8					
_	2017995	2017921	8					
	2017995	201/9/0	8 8					
	2017995	2017970	8 8		-			
	2017995	2017870	8 8				• .	
	2017995	2017970	8 1					
	2017985	2017870	88			•		
_	2017985	2017988	8 8					
_	2017985	201/368	8 8					
	2017985	996/102	8 8		•			
0300032 030000/	201/985	2017988	3 8					
	2017087	2017823	02					
	2017087	2017923	000					
OSCORS COCORD	2017987	2017923	8					
	2017987	2017923	200					
_	2017965	2017971	200					
	2017965	2017971	8					
_	2017965	2017971	200					
	2017965	2017971	802					
0300042 0300006	2017965	2017971	500					
	2017967	2017973	8					
0300044 0300001	2017967	2017973	<b>8</b> 2.					
0300045 0300001	2017967	2017973	200					
0300046 0300001	2017967	2017973	90					

Page 1 of 3

Tested by.....

Tracebility,	Peel and Trans	Tracebility, Peel and Transmissivity report	t	• .				Bettmore, MD 21206 1-200-358-6485
PRODUCT:	Tendrain 570-2	1			<u> </u>	Bottom		ASTM D 4716
	GM Syracuse (rener Gunde)	(ange)			ASTM F904	ASTM F904	ASTM F904	Transmissivity" (m2/sec)
	-	P. G.	Bottom	:	Peel Adhesion	Peet Adhesion	Peel Achesion	Value Value
COMPOSITE #	NET#	TEXTILE	TEXTILE #	Rolf Length (FT)	IDS/In (avg.)	IDS/III (BVD.)	DS/III (1947)	
0300047	0300001	2017967	2017974	8 8				
0300049	030000	2017962	2017874	200				
0300020	100000	2017982	2017974	8				
0300051	1000000	2017982	2017974	88				
0300052	0300001	2017982	2017874	8 8				
0300053	030000	2017966	201/886	3 8				
0300054	900000	2017968	2017986	8				
0300056	030000	2017966	2017986	200				
0300057	0300002	2017966	2017866	80				
0300058	0300005	2017976	2017928	88				
0300029	0300011	2017976	2017928	8 8				
0300080	0300011	2017976	2017928	200			-	
0300061	0300011	2017896	2017968	8 8				
0300082	0300011	2017896	2017968	8 8				
0300064	0300011	2017996	2017968	8 8				
0300085	0300011	2017896	2017968	3 8				
0300068	0300011	2017863	201/909	3 8				
0300087	1,0000	2017963	2017969	3 8				
0300088	030000	2017963	2017969	8				
0300070	0300000	2017963	2017969	800				
1,700000	030000	3001286	3001286	8				
0300072	030000	3001288	3001266	8, 8				
0300073	0300000	3001286	3001286	8 8				
03000/4	900000	3001286	3001266	<b>9</b> 2				
9/00000	6000060	3001274	3001647	8	<del>1,</del>	130	-	
0300077	0300010	3001274	3001647	88				
0300078	0300010	3001274	3001647	8 8				
0300080	000000	3001274	3001647	80				
0300081	0300010	3001252	3001649	88				
0300082	0300010	3001252	3001649	8				
0300083	900000	3001700	3001693	8 8				
0300084	000008	3001/00	3001093	3 8				
0300085	800008	3001/00	3001693	88				
0300080	SOCOOD I	3001712	3001689	8				
030008	800000	3001712	3001689	500			-	
0300089	0300008	3001712	3001689	80			•	
0300000	0300013	3001712	3001689	8				
0300091	0300013	3001712	3001689	8 8				
0300005	0300013	3001661	3001/32	3 8				
0300093	USOUDIS	3001880	3	}				

Page 2 of 3

Tested by.

		4800 East Monument	Baltimore, MD 21	1-00-356-646	
and a					

TENAX C	TENAX CORPORATION	2						√∆ΓI≣I
Tracebility,	Peel and Trans	Tracebility, Peel and Transmissivity report	T.					Bettmore, MO 21296 1-808-364-6495
5	Tendrain 570-2				į	Bottom		ASTIM D 47
	GM Syracuse (Fisher Guide)	Guide)			ACTU FOA	ASTM F904	ASTM F904	Transmissivity" (
Batch:	-	ļ	Bottom		Part Achesion	Peel Adhesion	Peel Achesion	Value
COMPOSITE	NET *	TEXTILE	TEXTILE #	Roll Length (FT)	Ibs/in (avg.)	fbs/In (avg.)	lbs/in (req.)	(required transm
0300084	0300013	3001681	3001732	500				
0300085	0300013	3001681	3001732	500				
960000	0300013	3001681	3001732	200		•		
0300097	0300013	3001271	3001281	<b>0</b> 2				
0300088	0300013	3001271	3001281	80				
6600080	0300014	3001271	3001281	8				
0300100	4100000	3001271	3001281	900				
0300101	410000	3001271	3001281	ଛ				
0300102	0300014	3001308	3001645	800				
0300103	0300014	3001309	3001645	200				
401000	0300014	3001309	3001645	8				
0300105	0300014	3001309	3001645	500				
0300108	0300014	3001309	3001645	200				•
7010000	410000	3001633	3001630	<b>0</b> 2				
0300108	0300015	3001633	3001630	700				
0300109	0300015	3001633	3001630	<b>20</b>				
0300110	0300015	3001633	3001630	8			_	
1110000	0300015	3001633	3001630	ର୍ଷ ବ				
0300112	0300015	3001265	3001250	8				
0300113	0300015	3001285	3001250	0 2 3				
0300114	0300015	3001265	3001250	<b>R</b> 9				
0300115	0300012	3001662	3001631	200				
0300116	0300012	3001662	3001631	200				
0300117	0300012	3001662	3001631	200				
0300116	0300012	3001662	3001631	200				
0300119	0300012	3001662	3001631	200				
0300120	0300012	3001267	3001657	80				
0300121	0300012	3001287	3001657	<b>500</b>				
0300122	0300012	3001267	3001657	500				
0300123	0300012	3001267	3001657	800				
0300124	0300016	3001279	3001284	82				
0300125	0300016	3001279	3001284	8				

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## QUALITY CONTROL SUMMARY Tenax Triplanar Tendrain 570-2

Date: September 22, 2003 Batch # 2

Project: GM Syracuse

Submitted to:
Jim Magnoli
New England Liner Systems
35 Wooster Court
Bristol, CT 06010

Performance in Plastic Technology<sup>sm</sup>



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Certification and Specification	1
Geonet Report and MQC	2
Geotextile MQC	
Geocomposite MQC	



Office: 410-522-7000 Fax: 410-522-7015 Order Line: (800) 356-8495 Waste Mgt: (800) US-GRIDS

# **SECTION ONE**

## **CERTIFICATION AND SPECIFICATON**

Performance in Plastic Technology<sup>sм</sup>



RE: GM Syracuse

Tendrain 570-2 (200' x 6.7')

Batch #2

September 22, 2003

Tenax Corporation certifies per the required frequency the following roll numbers,

0300301	0300302	0300303	0300304	0300305	0300306	0300307	0300308	0300309
						0300317		
0300321	0300322	0300323	0300324	0300325	0300326	0300327	0300328	0300329
						0300337		
						0300347		
0300351	0300352	0300353	0300354	0300355	0300356	0300357	0300358	0300359
 0300361	0300362	0300363	0300364				at the transfer about the sale	

of Tendrain570-2, to be shipped to the above referenced project are in accordance with the properties listed throughout this submittal showing compliance with the attached specifications. Those rolls were manufactured in accordance with the Tenax Manufacturing Quality Control / Quality Assurance Plan.

This MOC submittal consists of the following sections:

Section 2 contains the geonet Manufacturing Quality Control (MQC); Section 3 entails the MQC on the geotextile used for the manufacture of these geocomposites. Section 4 describes in detail all geocomposites roll numbers, describe their respective geotextile roll numbers and geonet roll numbers, as well as geocomposite transmissivity and peel strength.

Respectfully submitted,

Tim Bauters, Ph.D.

Senior Quality Control Manager

Performance in Plastic Technology<sup>sM</sup>



b = Minimum Average Roll Value (MARV)

d = Maximum Value

### TENDRAIN 570-2

#### **UBLE-SIDED GEOCOMPOSITE**

GM SY , NYC

...e drainage geocomposite is comprised of a tri-planar geonet structure consisting of thick supporting ribs with diagonally placed top and bottom ribs and with a thermally bonded, non-woven geotextile on both sides. The product is capable of providing high Transmissivity in a soil environment under high normal loads and will have properties conforming with the values and test methods listed below. **PROPERTIES TEST METHOD** UNIT **GEONET CORE** c, Note 1, 4 **ASTM D4595** lb/ft (kN/m) 1000 (14.6) Tensile Strength - MD Compressive Behavior (% Retained thickness) a, Note 2, 4 50 @40,000 psf (short term) **ASTM D1621** % 65 a, Note 4 @25,000 psf (10,000 hours) % **ASTM D1505** g/cm<sup>3</sup> 0.94 c, Note 4 Density d, note 4 **ASTM D1238** g/10 min. 1.0 Melt Flow Index a. Note 4 **ASTM D4218** 2.0 Carbon Black Content ፌ c. Note 3, 4 **ASTM D5199** 275 (7.0) mils (mm) Thickness GEOTEXTILE US Sieve (mm) 70 (0.21) b, Note 4 Apparent Opening Size (AOS) **ASTM D4751**  $oz/yd^2 (g/m^2)$ b. Note 4 **ASTM D3776** 6 (203) Weight b. Note 4 gal/min/ft2 (lpm/m2) 110 (4483) Water Flow Rate **ASTM D4491** cm/sec 0.24 b, Note 4 **ASTM D4491** Permeability b. Note 4 sec<sup>-1</sup> Permittivity **ASTM D4491** 1.3 b, Note 4 80 (355) Puncture Strength **ASTM D4833** lbs (N) b. Note 4 65 (290) Trapezoid Tear ASTM D4533 lbs (N) b, Note 4 **ASTM D4632** 160 (712) Grab Tensile Strength lbs (N) b, Note 4 Grab Elongation-MD % **ASTM D4632** 50 b, Note 4 ASTM D3786 psi (kPa) 285 (1965) Mullen Burst b, Note 4 ASTM D4355 70 Resistance @500 Hours % GEOCOMPOSITE a, Note 5 Roll Width ft (m) 6.7 (2.0) 200 (61) a, Note 5 Roll Length ft (m) c, Note 6 lb/in (N/m) 1.0 (175) Plv Adhesion ASTM F904 (modified) HYDRAULIC BEHAVIOR OF GEOCOMPOSITE c. Notes 7 Transmissivity - MD 10,000 psf (480 kPa) Gradient/Load: 1.5x10<sup>-9</sup> m²/sec 0.1 **ASTM D 4716** 

#### NOTES:

1. Tensile properties tested by manufacturer every 50,000 square feet of product per ASTM D4595 with a specimen width of 8.0 in. and cross-head speed of 0.4 in/min

c = Minimum Average Value

Qualifiers: a = Typical Value

- 2. Short term compressive behavior tested by manufacturer every 50,000 square feet of product per ASTM D1621 with a 4 in.x4 in. 4 in.x4 in. specimen and a constant rate of strain of 0.04 in./mln.
- Thickness measured by manufacturer every 50,000 square feet of product per ASTM D5199 with a 2.22 in diameter presser foot and 2.9 psi pressure.
- 4. Geotextile and geonet properties listed are prior to lamination. Geotextile is tested at the industry standard frequency.
- Roll dimensions are measured at the time of manufacture.
- 6. Ply Adhesion is tested by the manufacturer every 100,000 sf of production per modified ASTM F904, with a 2 inch wide (5 longitudinal ribs) by 10 inch long strip. The geotextile bonded to either side of the geonet is pulled apart at a peeling rate of 12 in/min., for at least 4 inches of peeling distance. The reported value for each laminated side is the average of the "peak" values from 5 tested samples. The 5 samples are cut evenly distributed along the roll width with a 1 foot margin from both edges of the roll.
- 7. Geocomposite transmissivity measured by manufacturer every 200,000 square feet of product as per ASTM D4716-99 with testing boundary conditions as follows: steel plate / uniform sand / geocomposite / 60 mil HDPE geomembrane / steel plate, and seating period of 100 hours.



Office: 410-522-7000 Fax: 410-522-7015 Order Line: (800) 356-8495 Waste Mgt: (800) US-GRIDS

# **SECTION TWO**

GEONET REPORT AND MQC

Performance in Plastic Technology<sup>sм</sup>

#### **Geonet MQC Test Results**

**Product** 

TD 5

Project

Lot#

Batch 2

6.7' x 1840' Dimensions Tenax Testing Lab

leding Date .	Geonet Roll	Date Tested	Thickness ASTM D5199 (mils)	Density ASTM D1505 (g/cm3)	CarbonBlack ASTM D4218 (%)	MFI ASTM D1238 (g/10min)	Tensile Strength ASTM D4595 (lb/ft)
	 0300057	8/28/2003	309	0.954	2.90	0.650	1411
	0300060	8/29/2003	310	0.954	2.80	0.650	1420
	0300063	8/30/2003	312	0.954	2.74	0.650	1417
A		•	310	0.954	2.81	0.650	1416
Average Standard Dev.			2	0.000	0.08	9.000	5
Specifications			275	0.940	2.00	<1	1000

-	Compression	•		
· Control to control	<b>Load</b> (psf) 40000	Roll#	Thickness Retained (%)	Specification (%) 50
		0300057	52.40	50
		0300060	53.10	50
		0300063	51.50	50

Tested by

Checked by

Date

9/22/2003

Date

9/22/2003



Fax: 410-522-7015

**SECTION THREE** GEOTEXTILE MQC

> Performance in Plastic Technology<sup>sм</sup>

Ş Tenax Mfg. AL LLC QAQC Laboratory Evergreen, Aabama Nomwoven Test Rolfs Lot Summary Roll Dimensions: 711 Sin x 1020f. Product Grade: T0800 Color: BLACK Lot Number: 30013 63-Mar-2603

									Ì							
			<b>5</b>	Grab Tenadi ASTIM	Tentile/Elongation	Ęģ.										101
Zog.	Ĭ	Weight	Ä	ND.	ช	CD.	H. Durat	Puncture	F	Trap. Teer	Thickness	Hydrau	te Teeth		80	
¥	*	(am)rd2)	ř ŝ	E SE	įĵ	3 6	2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	Kasistance ASTM D4833 (fbs)	2 <u>8</u>		<b>ASTIN</b> 06199 (mile)	Permit. Perm.(Kv)	Dien.	Water 710m	ASTIN	
3001498	01/27/2003	2	27.2	149.2	1 2	2	1					,	(MIRABOL)	(gpm/ff2)	(mm)	
300148	01/27/2003	4.0	261.6	145.0	×	<u>.</u>		3.15.	<b>8</b> 0.3	1027	2	1.78	0.300	131,4	0.117	
3001304	01/27/2003	2	768.4	156.0		2 <b>2</b>		į		,						
3001512	_	6.2			?	Š	200	122.7	182.3	9 9 9	2					
3001514		6.6	272.7	137.8	2005.3	£ 5	186	;								
3001516		9,0	2723	140.9	7.072	25		£.121	7	97 B	ĸ	<u>t.</u>	0.280	129.3	0.00	
3001522		6.5	274.5	140.3	280.4	<b>1</b>			•							
201533		6.2				}	-	977	105.8	102.5	2					
3001522		6.3	¥89.	136.7	284.6	¥	Ž	•	ĺ	. (						
3001538	01/28/2003	7				ì	4.60	127.5	£7.3	<b>23.</b>	2					
3001540	01/28/2003	7.0														
3001544	01/25/2003	6.6	259.0	130.3	205.5	8	68	1301		į	i					
20152	01/28/2003	3				}	į		978	- S	Z					
<b>2</b>	01/28/2003	ç	2624	140.0	281.9	20.05	6136	4 86		į						
3001566	01/28/2003	6.3	254.2	141.7	27.1.0	7			Š	3	2					
MAST.	01/28/2003	23			<b>!</b>		2	7.67	¥ / /8	7.78	Z					
3001578	01/28/2003	9.0	2007	140.1	0182	£	480									
3001588	01/28/2003			14.0	742	2 6	2 K	7,000	5 5	7/6	R	<b>5</b>	0.358	137.1	780.0	
30150	01/29/2003	3		14.6	800				9.01		<b>2</b>				•	
300100	01/28/2003	3		7.7	<b>3</b>	\$	374		6.81	3	ĸ					
<b>3001612</b>	01/29/2003					ì		-	102.6	123	ĸ					
300 teze	01/29/2003	2	258.7	139.4	267.6	9	9		3		,					
30H622	01/28/2003	60		137.3	2007			10.1		108.7	8					
3001642	01/29/2003	90		1654	261.8					101	Ľ					
<b>309166</b>	01/29/2003	3	247.1	0	785	- •	Š			124.3	<b>3</b>	2.00	0.453	194.6	0.097	
	01/29/2003	62			200.0		7			42H	<b>2</b> 3					
	01/30/2003	6.3		-	270.4					140.9	8					
3001690	01/30/2003		249.5		258.8			130.0		137.8	r i					
_	01/30/2003	6.5	-		274.7					50.5	<b>~</b>					
_	01/30/2003	6.1			7182			1.121		116.9		233	0.441	174.5	0.100	
Ξ.	01/30/2003	6.0			788.4		1 1			123,1	<b>≂</b> ;					
	01/30/2003	2			5	•			7	8,51	<b>2</b> i					
	01/30/2003	2	_	_			0			2 4	<b>e</b> 1					
3001754	01/30/2003	£.1 2		156.3	_	, , • ,	<b>1</b> 9	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		2 2	R ;					
						,				<u> </u>		278	0.477	205.5	0.110	
															•	

Control	Control Cont	3	03-Mar-2003						<b>ب</b> ــَ	enex Mila	A	٢						
Control   Cont	Column   C	Preduct		88					•	PAOC LE	borator	)  ->						
Color District   Colo	Control December   Tito A. 1920	Lot Nu		<b>8</b> 13					_	Evergreen,	Arben	<b>.</b> 5						
Table   1970   Tabl	Controller   Table   State   Controller   Table   State   Controller   Table   State   Controller   Table   State		Color: 02	ğ						Nonword	E Test							
The control of the	Table   Mari	Roff Dimens	- 1	19th x 10	20E					Lot Sum	ımany							. Pere 3 rd
Name	Thirty   Minth   Min				đ	Terred ASTI	le-Flompel 1 D4632	Log.										
Duble   DASH   The	Data   Data   Data   Data   Para	<u></u>	ĭ			q	Ú	ď	M. Burst	Puncture		Total	Thickness	Hydra	file Teats		A.O.S.	
0.01/1/2003 6.1   254.4   198.7   259.8   63.6   357.0   122.9   128.3   131.0   78	0.0101/2003	o S	4	(0e) <sub>(42</sub>	įį	Elong (%)		<b>2</b> €	62	ASTIN DARDS (fbs)		8	25 (ale		Permu(Kv) (cm/sec)	Water Flow (operatize)	ASTA De751 (mm)	
0.01510000 1,1	010110000 61		731/2003	8	28.4	159.7	259.8	8.8	357.0	120	128.1	6	9					
Origination 6.3   Control 6.4   Control 6.	Order   Orde		A1/2003	6.1					}	<u> </u>		<u> </u>	ę					
Districtions	Distriction		/31/2003	5														
CONTINUED   CONT	Dictations		731/2003	5	200.2	151.3	274.8	83.3	348.4	128.1	84.1	δ	Ş					
Distriction   Contribution   Contr	District		21/2003	3								<b>!</b>	3					
Distriction   Late   2474   1474	Distriction   Late   Marie		131/2003	3	250.4	156.9	2803	0.78	363.0	134.7	2	2	•					
Distriction	Districtions   Late		31/2003	3	243.6	152.9	207.6	56.7	33.1	134.6	124.3		; <b>&amp;</b>					
CONTINUES   6.2   286.9   144.2   296.1   57.7   391.2   127.6   197.3   197.7   76   197.8	Districtions 6.2   288.9   144.2   286.1   57.7   391.2   127.6   197.3   197.7   775		31/2003	63	247.4	141.3	277.5	83	370.2	125.0	1180	֓֞֝֞֞֝֞֜֞֝֞֜֞֝֞֜֞֜֜֞֜֞֜֞֜֜֞֜֞֜֞֜֜֞֓֓֓֓֞֜֜֞֜֞֞	; #	,		ţ	,	
CONDITIONS	CONTINUES   E.1   24.5   197.6   274.1   56.0   371.5   129.1   102.5   111.7   000     CONTINUES   E.1   24.5   306.3   36.1   36.5   36.5   171.1   102.5   101.0   78   1.40   0.330   134.9     CONTINUES   E.1   277.8   14.4   306.1		31/2003	3	268.9	148.2	286.3	27.7	361.2	127.8	107.3	2 10	2 8	3	<b>X</b>	4721	0.120	
CONTINUON 6.1   CONTINUON 6.	CONTINUES 6.1 245.5 134.6 200.2 385.5 136.5 13		M/2003	3	24.5	137.8	274.1	<b>36.8</b>	371.8	120.1	8	1117	₹ €					
CONTINUED   CL   243.5   198.8   252.5   363.6   121.1   99.1   100.5   78   140.0   0.330   134.9     CONTINUED   CL   250.7   138.5   238.0   61.6   343.1   102.5   101.0   73   140.0   0.330   134.9     CONTINUED   CL   250.7   138.5   238.0   61.6   343.1   124.3   61.6   61.6   61.6   61.6   61.6   61.6     CONTINUED   CL   250.8   152.7   256.0   98.3   360.2   111.3   67.1   97.1   97.1   97.1   97.1   97.1     CONTINUED   CL   222.8   148.0   244.1   57.1   357.2   111.3   67.1   97.1   97.1   97.1   97.1   97.1     CONTINUED   CL   222.8   144.4   67.1   37.7   123.7   98.7   61.8   74.4     CONTINUED   CL   222.8   144.4   67.1   37.7   123.9   94.1   94.4   75   1.79     CONTINUED   CL   222.8   144.4   27.1   244.4   67.1   37.7   133.9     CONTINUED   CL   222.8   144.5   231.1   380.2   133.9     CONTINUED   CL   222.8   144.5   231.1   380.2   133.9     CONTINUED   CL   222.8   144.5   231.1   380.2   133.1     CONTINUED   CL   222.8   144.5   231.1   380.2   133.1     CONTINUED   CL   222.8   144.5   231.1   380.2   133.1     CONTINUED   CL   222.8   144.5   231.1   380.2   115.1   97.1   95.0   73     CONTINUED   CL   222.8   147.3   231.8   232.4   121.9   22.6   67.6   73     CONTINUED   CL   232.8   147.3   232.8   232.4   121.9   22.8   67.6   73     CONTINUED   CL   232.8   147.3   232.8   232.8   122.4   97.1   96.0   74     CONTINUED   CL   232.8   2	CAMPIACONS		01/2003	3		•		!	<u> </u>	İ		:	3					
OZOVIZOOD 6.1 272.8   442.6 306.3 369.3 359.3   110.7   102.5   101.0   75   1.00   0.330   134.9     OZOVIZOOD 6.2 256.7   134.5 226.8   146.0 342.1   25.0.3   124.3   25.0.5   134.5 226.8   146.0 24.1   24.0   24.2	DAMISTON 6.1		01/2003	3	243.5	136.8	200.5	58.2	363.6	121.1	8	Ş	*					
OZOVIZOGO 6.2   250.7   136.5   252.6   152.7   255.6   252.3   154.2   250.6   272.3   154.2   250.6   272.3   154.2   255.6   252.3   154.2   252.3   154.2   252.3   154.2   252.3   154.2   252.3   154.2   252.3   154.3   252.3   252.3   154.3   252.	OZOVIZONO 6.1   250.7   136.5   250.7   136.5   250.7   136.5   250.7   136.5   250.7   136.5   250.7   136.5   250.7   136.5   250.7   136.5   250.7   250.		M/2003	3	277.0	143.6	306.3	8	380.3	119.7	5	<u> </u>	2 8	5		;		
OZOVIZODO SENTINOS         6.1         256.0         192.7         256.0         192.7         256.0         192.0         342.6         120.3         97.9         95.9           OZOVIZODO SENTIZODO	OZONIZONO DECISIONO SEL STATIONO S		91/2003	6.2	7.052	136.5	283.0	9.6	X3.1		}	<b>)</b>	?	Š	0.330	136.9	0.12d	
DEFINITIONS         6.13         276.6.8         148.0         246.1         54.0         342.6         120.9         68.1         88.6         67           OZDVIZODOS         6.2         272.8         138.8         247.7         57.1         383.5         111.3         67.1         91.3         75           OZDVIZODOS         6.2         272.8         138.8         247.7         57.1         385.5         111.3         67.1         91.3         75           CZDVIZODOS         6.2         272.8         134.4         57.1         387.7         123.7         98.1         94.4         76         1,79         0.335         133.7           CZDVIZZODOS         6.1         276.2         276.2         387.2         387.9         94.1         94.4         76         1,79         0.335         133.7           CZDVIZZODOS         6.1         276.2         387.9         387.9         94.1         94.4         76         1,79         0.335         133.7           CZDVIZZODOS         6.1         276.2         386.0         381.9         118.1         97.1         96.0         74           CZDVIZZODOS         6.1         276.1         286.0         383.2	Debutzono Computados B. 206. 148.0 246.1 54.0 342.5 120.9 08.1 08.5 08.1 08.6 07         OPATIZADOS CONTIZONO B. 272.3 144.2 244.5 57.1 383.5 111.3 07.1 07.1 383.5 111.3 07.1 07.1 07.1 07.1 07.1 07.1 07.1 07.1		01/2003	3	236.8	152,1	28.0	200	250.3	124.3	93.6	97.9	E					
Q2001/2003         8.3         226.3         148.0         240.1         54.0         342.6         120.9         68.1         84.6         67           Q201/2003         6.2         272.8         138.8         237.7         57.1         383.6         111.3         67.1         91.3         75           Q201/2003         6.2         272.8         138.8         237.7         57.1         383.7         123.7         94.1         77           Q201/2003         6.1         272.3         142.1         284.4         57.1         237.7         123.7         94.1         76         1.79         0.338         133.7           Q201/2003         6.1         226.2         96.3         357.7         123.9         94.1         76         1.79         0.338         133.7           Q201/2003         6.1         236.2         96.3         357.7         115.1         97.1         76         1.79         0.338         133.7           Q201/2003         6.1         236.2         96.3         357.7         96.9         73         1.79         1.79         1.79         1.79         1.30           Q201/2003         6.1         236.1         236.2         36.2	Q2001/2003         6.1         236.6         196.0         240.1         54.0         342.6         120.0         68.1         98.6         67           Q201/2003         6.2         271.6         136.8         247.7         57.1         383.5         111.3         67.1         91.3         75           Q201/2003         6.2         272.8         138.8         278.1         347.7         117.3         67.1         91.4         76         17.9           Q201/2003         6.2         272.8         138.4         58.1         346.7         123.7         92.7         123.7         92.4         76         17.9         0.335         133.7           Q201/2003         6.1         270.3         146.2         286.2         396.3         146.4         76         17.9         0.335         133.7           Q201/2003         6.1         230.3         147.2         286.2         386.3         397.7         116.1         97.4         76         1.79         0.335         133.7           Q201/2003         6.1         230.3         147.2         286.3         386.3         146.1         97.4         96.0         77         74           Q2002/2003         6.1		01/2003	7								<b>!</b>	}					
OZNUZZOOS         6.2         Z718.5         136.5         247.7         357.1         355.5         111.3         67.1         91.3         75           OZNUZZOOS         6.2         222.8         134.5         244.4         57.1         357.7         123.7         99.7         65.6         74           OZNOZZOOS         6.0         227.3         144.2         236.2         96.5         357.7         133.9         94.1         94.4         76         1,79         0,335         133.7           OZNOZZOOS         6.4         236.2         96.5         357.7         133.9         94.1         94.4         76         1,79         0,335         133.7           OZNOZZOOS         6.4         236.2         96.5         357.7         96.1         94.4         76         1,79         0,335         133.7           OZNOZZOOS         6.4         236.7         147.8         253.1         360.2         116.1         97.4         90.7         73           OZNOZZOOS         6.1         246.5         353.2         344.5         352.6         97.4         90.7         74           OZNOZZOOS         6.1         246.5         353.2         346.5         172.4<	OZMIZZOUS         6.3         7.1         91.3         7.5           OZMIZZOUS         6.2         272.8         134.8         287.7         57.1         282.5         111.3         67.1         91.3         7.5           OZMIZZOUS         6.2         272.8         134.8         286.2         387.7         123.7         99.7         66.5         74           OZMIZZOUS         6.4         277.3         142.1         284.4         67.1         287.7         123.7         98.1         94.1         94.4         75         133.7           CONDAZIOUS         6.4         273.3         146.2         286.2         386.2         387.7         133.9         94.1         94.4         75         1,79         0.335         133.7           CONDAZIOUS         6.4         273.3         146.2         286.2         381.9         118.1         97.1         95.0         73           CONDAZIOUS         6.4         273.2         147.3         280.2         381.9         118.1         97.1         95.0         73           CONDAZIOUS         6.1         273.2         282.3         486.2         122.4         97.4         90.3         74           CONDAZIO		71/2003	2	236.8	149.0	240.1	20	342.6	120.9	1.88	8	E					
CZNUIZO03         6.2         Z18.5         136.5         277.1         377.1         383.5         111.3         877.1         877.3         75           CZNUIZO03         6.2         272.8         134.6         277.3         142.1         244.4         57.1         357.7         123.7         98.7         65.6         74           CZNUZZO03         6.0         272.3         142.1         244.4         57.1         357.7         133.9         94.1         344.4         75         1.79         433.5         133.9         94.1         344.4         75         1.79         433.5         133.7         432.2         357.7         133.9         94.1         344.4         75         1.79         433.5         133.7         133	CZNOIZO03         6.2         Z18.5         138.6         247.7         557.1         383.5         111.3         87.1         91.3         75           CZNOIZO03         6.2         222.8         134.6         254.1         244.4         67.1         237.7         123.7         94.1         94.4         75         1,79         0.335         133.7           CZNOIZO03         6.2         228.8         143.4         291.5         347.7         357.7         123.9         94.1         94.4         75         1,79         0.335         133.7           CZNOIZO03         6.4         228.3         146.2         236.2         96.3         357.7         73         73         133.5         133.7           CZNOIZO03         6.4         228.1         446.5         236.2         115.1         97.1         96.0         73         133.7         133.7           CZNOIZO03         6.4         238.1         236.2         344.5         115.1         97.4         96.0         74         75           CZNOIZO03         6.1         246.0         147.3         256.2         346.3         122.6         97.4         96.0         74         74           CZNOIZO03 <td></td> <td>H/2003</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>į</td> <td>]</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td>		H/2003	3							į	]	3					
CZP01/2003         6.2         222.8         134.5         236.5         34.7         123.7         98.7         65.6         74           CZP02/2003         6.0         227.3         142.1         244.4         57.1         337.7         123.9         94.1         36.6         74           CZP02/2003         6.1         226.2         266.3         397.7         123.9         94.1         36.4         75         1.79         0.335         133.7           CZP02/2003         6.1         226.2         366.3         397.7         123.9         94.1         36.4         75         1.79         0.335         133.7           CZP02/2003         6.1         226.2         366.3         397.7         116.1         97.1         75         1.79         0.335         133.7           CZP02/2003         6.1         226.1         361.3         361.3         116.1         97.4         95.0         73           CZP02/2003         6.1         246.3         246.6         127.6         97.4         90.7         74           CZP02/2003         6.1         246.3         246.3         246.3         247.2         97.4         90.9         74           CZP02	CZ007/2003         6.2         222.8         134.5         236.5         346.7         123.7         98.7         65.6         74           CZ002/2003         6.0         277.3         142.1         244.4         57.1         337.7         123.9         94.1         56.6         76         76         179         0.338         133.7           CZ02/2003         6.4         226.2         366.3         357.7         357.6         133.9         94.1         56.4         76         179         0.338         133.7           CZ02/2003         6.7         226.2         366.3         357.7         115.1         97.1         96.0         773         133.7         133.7           CZ02/2003         6.1         226.1         445.5         236.2         115.1         97.1         96.0         773         133.7         133.7         133.7         133.7         133.7         133.7         133.7         133.7         133.7         133.2         133.1         133.1         133.1         133.1         133.1         133.1         133.1         133.1         133.1         133.1         133.1         133.1         133.1         133.1         133.1         133.1         133.1         133.1		H/2003	2	219.5	136.8	7.712	57.1	903	111.3		•	*					
CZROZZOGO         6.0         227.3         142.1         244.4         57.1         357.7 <t< td=""><td>CARDATORS         6.0         ZZT.3         142.1         244.4         57.1         357.7         <t< td=""><td></td><td>172023</td><td>62</td><td>222</td><td>134.5</td><td>288.5</td><td>51.5</td><td>748.7</td><td>127</td><td>8</td><td></td><td>2 ;</td><td></td><td></td><td></td><td></td><td></td></t<></td></t<>	CARDATORS         6.0         ZZT.3         142.1         244.4         57.1         357.7 <t< td=""><td></td><td>172023</td><td>62</td><td>222</td><td>134.5</td><td>288.5</td><td>51.5</td><td>748.7</td><td>127</td><td>8</td><td></td><td>2 ;</td><td></td><td></td><td></td><td></td><td></td></t<>		172023	62	222	134.5	288.5	51.5	748.7	127	8		2 ;					
CARDATION         6.2         228.8         143.4         281.5         357.6         133.9         94.1         594.4         75         1.79         0.335         133.7           CARDAZOON         6.4         236.2         365.2         365.2         365.2         367.7         156.2         37.7         156.2         77.7         157.7         179.2<	CARDATION 6.2         2.28.8         143.4         281.5         57.2         387.6         133.9         94.1         594.4         75         1.79         0.335         133.7           CARDAZIONS 6.2         6.4         2.28.2         366.2         367.7         367.7         195.1         97.1         96.0         79         133.7         133.7           CARDAZIONS 6.3         2.3         2.44.5         115.1         97.1         96.0         73         123.8         133.2         133.7         133.2 <t< td=""><td>_</td><td>12/2003</td><td>3</td><td>27.3</td><td>142.1</td><td>244.4</td><td>57.1</td><td>227.7</td><td>İ</td><td>Ì</td><td>3</td><td>•</td><td></td><td></td><td></td><td></td><td></td></t<>	_	12/2003	3	27.3	142.1	244.4	57.1	227.7	İ	Ì	3	•					
Cardazions         6.4         228.3         148.2         236.2         38.7         133.7           Cardazions         6.2         236.2         38.7         357.7         79         0.335.7         133.7           Cardazions         6.3         236.7         147.8         236.1         586.2         381.9         119.1         97.1         98.0         73           Cardazions         6.3         236.2         147.3         236.1         586.2         381.9         119.1         97.1         98.0         73           Cardazions         6.1         236.2         147.3         236.3         143.2         346.8         121.9         92.6         67.8         67.8         74           Cardazions         6.1         246.3         246.3         147.3         127.6         97.4         90.7         74           Cardazions         6.1         246.3         246.3         147.5         177.0         169.3         74           Cardazions         6.1         280.3         146.3         147.3         147.3         147.3         147.3         147.3         147.3         147.3         147.3         147.3         147.3         147.3         147.3         147.3 </td <td>Cardizations         6.4         228.3         146.2         236.2         98.5         357.7         19.5         19.5         19.5         13.7         13.8         13.7         13.8         13.1         13.8         13.1         13.8         13.1         13.8         13.1         13.8         13.1         13.8</td> <td></td> <td>272003</td> <td>62</td> <td>228.8</td> <td>15.4</td> <td>24.5</td> <td>57.2</td> <td>357.6</td> <td>133.0</td> <td>3</td> <td>2</td> <td>;</td> <td>1</td> <td></td> <td></td> <td></td> <td></td>	Cardizations         6.4         228.3         146.2         236.2         98.5         357.7         19.5         19.5         19.5         13.7         13.8         13.7         13.8         13.1         13.8         13.1         13.8         13.1         13.8         13.1         13.8         13.1         13.8		272003	62	228.8	15.4	24.5	57.2	357.6	133.0	3	2	;	1				
C2002/2003     6.7       C2002/2003     6.7       C2002/2003     6.4       C2002/2003     6.4       C2002/2003     6.3       C2002/2003     6.3       C2002/2003     6.3       C2002/2003     6.1       C2002/2003 <td>CONDERIORS         6.7         73         73           CONDERIORS         6.4         236.7         147.6         253.1         58.0         75.1         773           CONDERIORS         6.4         236.7         147.5         253.1         58.0         381.9         115.1         97.1         96.0         773           CONDERIORS         6.2         246.5         147.3         253.2         346.6         121.9         92.6         67.6         773           CONDERIORS         6.1         246.3         253.2         122.4         97.4         80.7         74           CONDERIORS         6.1         246.3         24</td> <td></td> <td>272003</td> <td>2</td> <td>236.3</td> <td>148.2</td> <td>286.2</td> <td>588</td> <td>7.15</td> <td></td> <td>į</td> <td>; ;</td> <td>ę</td> <td>5</td> <td>0.333</td> <td>133.7</td> <td>0.18 8</td> <td></td>	CONDERIORS         6.7         73         73           CONDERIORS         6.4         236.7         147.6         253.1         58.0         75.1         773           CONDERIORS         6.4         236.7         147.5         253.1         58.0         381.9         115.1         97.1         96.0         773           CONDERIORS         6.2         246.5         147.3         253.2         346.6         121.9         92.6         67.6         773           CONDERIORS         6.1         246.3         253.2         122.4         97.4         80.7         74           CONDERIORS         6.1         246.3         24		272003	2	236.3	148.2	286.2	588	7.15		į	; ;	ę	5	0.333	133.7	0.18 8	
02/02/2003     6.1     236.1     147.6     233.1     366.0     384.5     115.1     97.1     95.0     73       02/02/2003     6.3     246.5     246.5     344.5     115.1     97.1     95.0     73       02/02/2003     6.3     246.0     147.3     253.6     53.2     346.6     121.9     92.6     67.6     73       02/02/2003     6.1     246.0     190.1     224.2     122.4     97.4     90.7     74       02/02/2003     6.1     246.0     190.3     252.5     59.3     345.0     123.6     92.3     90.9     74       02/02/2003     6.1     260.3     190.3     257.7     96.3     341.5     177.0     106.7 </td <td>OP/OZ/Z003         6.4         258.7         147.8         258.1         580.2         773         773           US/OZ/Z003         6.3         224.6         147.3         258.1         580.0         384.5         115.1         97.1         95.0         773           US/OZ/Z003         6.3         248.0         147.3         258.6         53.2         344.5         121.9         92.6         67.6         773           US/OZ/Z003         6.1         248.0         147.3         258.6         53.2         346.6         127.6         97.4         90.7         74           US/OZ/Z003         6.1         246.0         190.3         257.7         346.3         341.5         127.0         109.7         74           US/UZ/Z003         6.1         280.3         156.3         341.5         127.0         109.7         74         74</td> <td>Ċ</td> <td>22003</td> <td>7</td> <td></td> <td>ı</td> <td>!</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	OP/OZ/Z003         6.4         258.7         147.8         258.1         580.2         773         773           US/OZ/Z003         6.3         224.6         147.3         258.1         580.0         384.5         115.1         97.1         95.0         773           US/OZ/Z003         6.3         248.0         147.3         258.6         53.2         344.5         121.9         92.6         67.6         773           US/OZ/Z003         6.1         248.0         147.3         258.6         53.2         346.6         127.6         97.4         90.7         74           US/OZ/Z003         6.1         246.0         190.3         257.7         346.3         341.5         127.0         109.7         74           US/UZ/Z003         6.1         280.3         156.3         341.5         127.0         109.7         74         74	Ċ	22003	7		ı	!											
G2022003         6.4         236.7         147.6         233.1         36.0         381.9         115.1         97.1         95.0         73           G2022003         6.3         246.5         147.3         233.6         53.2         346.5         121.9         92.6         67.6         73           G2022003         6.1         246.0         147.3         233.2         345.2         122.4         97.4         90.7         74           G2022003         6.1         246.0         190.3         232.2         122.4         97.4         90.7         74           G2022003         6.1         246.0         190.3         232.5         59.3         345.0         123.6         92.3         90.9         74           G20222003         6.1         260.3         146.3         247.7         96.3         341.5         127.0         106.7         146.7	G2022003         6.4         236.7         147.6         233.1         36.0         381.9         115.1         97.1         95.0         773           G2022003         6.3         246.0         147.3         234.6         132.2         346.6         121.9         92.6         67.6         773           G20222003         6.1         246.0         147.3         253.2         346.6         121.9         92.6         67.6         773           G20222003         6.1         246.0         190.3         252.4         59.3         345.9         123.6         92.3         90.9         74           G20222003         6.1         260.1         150.3         247.7         56.3         341.5         127.0         109.7         74		22003	6.7					288.2				\$					
02022003     6.3       02022003     6.2       02022003     6.3       246.5     147.3       02022003     6.3       246.6     121.9       02022003     6.1       246.7     147.3       246.7     146.7       126.1     246.2       126.2     246.3       126.3     246.3       126.3     246.3       126.3     246.3       126.3     246.3       127.0     106.7       126.3     247.7       127.0     106.7       127.0	02/02/2003     6.3       02/02/2003     6.2       02/02/2003     6.3       24.6     147.3       02/02/2003     6.1       26.7     147.3       02/02/2003     6.1       26.7     156.1       26.7     156.2       26.8     127.6       26.7     17.6       26.7     156.3       26.8     247.4       26.9     127.6       26.9     247.7       26.1     247.7       26.2     247.6       26.3     247.6       26.3     247.6       26.3     247.6       26.3     247.6       26.3     247.7       26.3     247.6       26.3     247.6       26.3     247.6       26.3     247.6       26.3     247.6       26.3     247.6       26.3     247.6       26.3     247.7       26.0     247.7       26.1     247.7       26.2     247.6       26.3     247.6       26.3     247.6       26.3     247.6       26.3     247.6       26.3     247.7       26.3     247.6 <td></td> <td>2/2003</td> <td></td> <td>738.7</td> <td>147.8</td> <td>2</td> <td>980</td> <td>0.1</td> <td>1184</td> <td>Š</td> <td>į</td> <td>2 1</td> <td></td> <td></td> <td></td> <td></td> <td></td>		2/2003		738.7	147.8	2	980	0.1	1184	Š	į	2 1					
02022000     6.2       02022000     6.3     248.0     147.3     253.6     53.2     348.6     121.9     \$2.6     67.6     75       02022000     6.1     231.5     196.1     262.4     59.6     253.2     122.4     97.4     90.7     74       020222000     6.1     246.0     190.3     252.5     59.3     345.0     123.6     82.3     90.9     74       020222000     6.1     260.3     156.3     257.7     96.3     341.5     127.0     106.7     106.7     106.7	020022003     6.3     248.0     147.3     258.6     53.2     348.6     121.9     \$2.6     67.6     75       020022003     6.1     230.1     251.5     196.1     252.4     59.6     333.2     122.4     97.4     90.7     74       020022003     6.1     246.0     190.3     257.7     56.3     341.5     127.0     109.7     70     77       020022003     6.1     260.3     156.3     257.7     56.3     341.5     127.0     109.7     70     77		22002	3				•	345	į	-		2					
C20272003         6.3         248.0         147.3         253.9         53.2         348.6         121.9         92.6         67.6         75           C20272003         6.1         251.5         195.1         246.2         58.6         333.2         122.4         97.4         90.7         74           C20272003         6.1         246.0         150.3         252.5         59.3         345.0         123.6         92.3         90.9         74           C20272003         6.1         280.3         159.3         257.7         96.3         344.5         127.0         109.7         109.7         74	G2/02/2003         6.3         248.0         147.3         253.6         53.2         348.6         121.9         92.6         67.6         75         75           C2/02/2003         6.1         230.5         196.1         230.2         122.4         97.4         90.7         74           C2/02/2003         6.1         246.0         190.3         232.2         122.4         97.4         90.7         74           C2/02/2003         6.1         246.0         190.3         232.5         96.3         341.5         127.0         109.7         74           C2/02/2003         6.1         260.3         145.5         341.5         127.0         109.7         74         175         0.312         130.8	3001909 020	22003	3														
02/02/2003 6.1 246.0 190.3 257.7 96.3 341.5 127.0 109.3 109.8 7.4	02/02/2003 6.1 280.3 159.1 282.4 59.6 359.2 122.4 97.4 90.7 74 90.7 74 02/02/2003 6.1 246.0 150.3 257.7 563.3 341.5 127.0 109.7 109.8 75 1.75 0.312 130.8		272003			147.3	281.0	633	8 45	9	8		ł					
02/02/2003 6.3 251.5 156.1 252.4 59.6 333.2 122.4 57.4 50.7 74 02/02/2003 6.1 246.0 150.3 252.5 59.3 345.0 123.6 52.3 50.9 74 02/02/2003 6.1 256.3 159.3 257.7 56.3 34.5 127.0 109.7 109.7 109.8	OZIOZZOUG 8.3 251.5 156.1 252.4 59.6 333.2 122.4 57.4 90.7 74  CZIOZZOUG 8.1 246.0 150.3 252.5 59.3 345.0 123.6 92.3 50.9 74  CZIOZZOUG 8.1 280.3 159.3 257.7 56.3 341.5 127.0 109.7 109.8 75 1.75 0.312 130.8	_	22003			<b>)</b>				<u>!</u>		P.	e					
CZ/CZ/ZCCC3 6.1 246.0 150.3 252.5 59.3 345.0 123.6 92.3 50.9 74  CZ/CZ/ZCCC3 6.1 260.3 159.3 257.7 56.3 34.5 127.0 109.7 109.8 75.	OZVOZEGOG 6.1 246.0 150.3 252.5 59.3 345.0 123.6 92.3 50.9 74 OZVOZEGOG 6.1 256.1 150.3 257.7 56.3 341.5 127.0 109.7 108.8 75 1.75 0.312 130.8	_	22003			138.1	762.4	98.0	353.2	1224	7.6	8	7					
02/02/2003 6.1 246.0 190.3 252.5 59.3 345.0 123.8 92.3 50.9 74 02/02/2003 6.1 280.3 159.3 257.7 56.3 341.5 127.0 109.7 109.8 74 0.75	02/02/2003 6.1 246.0 150.3 252.5 59.3 345.0 123.6 92.3 50.9 74 02/02/2003 6.1 260.3 150.3 257.7 56.3 341.5 127.0 109.7 108.8 75 1.75 0.312 130.8	_	2/2003	2					245.3		t i	Ì	•					
02/02/2003 6.1 260.3 150.3 257.7 56.3 34.5 127.0 109.7 rms 7.5	02/02/2003 6.1 260.3 150.3 257.7 56.3 341.5 127.0 109.7 108.8 75 1.75 0.312 130.8	_	20027				252.5		345.0	123.6	22.3	\$	72					
	1,00 0.11 6,00 0.00 0.00 0.00 0.00 0.00	_	22003				257.7	96.3	341.5	127.0	5	9	:					

					1			,						1		
					rage 3 of 3											
						AOS.	A5.75 F 75. (m.)					į	0.080		<b>\$</b> 0.0	1100
							Water Flow (open/ff2)						<b>8</b>			Ş
						tydraulic Tests	Perm.(Rv) (cm/sec)					976	}	2		
						Į.	Permit Perm (K (sec-1) (cm/s)		٠			. 8		202	Ę	<b>!</b>
						Thickness	(mile)		;	2 2		2	2 2	73.5	9	!
						1	38		ž	. <b>9</b>		11.7	11.7	282	15.7	i
AL LLO	oratory	Meberna	n Test	Ž		Trap. Tear				108.4		108.1		282		
Tenax Mfa. At. LLC	<b>GA/GC Laboratory</b>	Vergreen,	Nonwoven Test	Rolls Lot Summary		Periodize	ASTIN DARSS (PDs)		- XX	12.8		120.3	1220	124.5	6.4	
7		ш					arre)		362.1	356.3		357.8	358.9	728	16.5	
					8	ď	Elong (35)		8	9,19		Ħ	8.8 8.0	88	3.9	
					Grab Tenelle/Elongation ASTH D4112	ď			261.9	257.0			281.6 280.5	288.0	13.0	
					A Ten	ď	39		160.3	159.9		164.5	157.2 157.7	<u>\$</u>	6.7	
				50		M.D.	Ę		249.8	243.8		271.9		254.0	13.6	
	8	913	ğ	Sh x 10		¥ 25 25 25 25 25 25 25 25 25 25 25 25 25	Dezen (ce)dz)	62	3	29	3 5	2	2 2	3	~;	•
03-Mer-2003	Product Grade: TG800	Lot Number: 30013	Color: BLACK	Roll Dimensions: 71 Sh x 10201		Ĭ		02/25/2003	02/02/00/20	02/03/2003	02/02/2003	02/03/2003	02/03/2003	į		
_	Prof.	3		Roll Din		No.	ġ.	3001975	3001962	300/990	3002000	3002002	3002019		Straint Deviation	

	Evergreen, Alabama Nonwoven Test Engineer:	Rolls Lot Summary Page 1 of 1		Trap.Tear Thickness Hydraulic Tests	Resistance ASTM D4533 ASTM ASTM D4491 Water ASTM D483 MD GD D5199 Permit. Perm.(Kv) Flow	(lbs) (mils) (sec-1) (cm/sec) (gpm/ft2)	1.12 0.193 84.1	345.5 127.5 80.8 83.4 76 1.14 0.214 85.1 0.079		125.3 85.1 89.3 80 2.57	114.5 83.7 85.8 78 2.48 0.010	124.3 94.2 86.7 79 2.28 0.490	124.4 106.7 82.9 74 2.50 0.450 190.0	328.5 124.5 83.4 81.7 76 1.53 0.288 114.4 0.000		124,4 85.3 77.6 /4 1.75 0.505 151.1		122.5 82.6 84.0	117.5 86.5 80.4	347.0 122.5 88.9 69.9 66	86.3 95.4	120.5 114.8 103.0	95.7	98.6	112.9 93.5 67	112.6 90.9 1	113.6 118.2 112.0	379.0	340.6 120.9 95.2 90.9 73.7 1.84 0.352 127.0 0.081	
. <b>ફ</b>	Nabama n Test	mary		-	ASTIN D45	(lbs)	•							_						•						•	•			
Tenax Mfg. 4 QA/QC Laborate	Evergreen, Alaba Nonwoven Tet	Lot Summary		Puncture	Resistance	(sq)	124.5	127.5		125.3	114.5	124.3	124.4	124.5	,	124.4		122.5	117.5	122.5	121.6	120.5	121.7	121.4	121.1	112.6	113.6	9.0	120.9	
			£		;	Elong Dark (%) (psi	56.5 346		_	_			58.8 334	_	~		<b>~</b>	<b>6</b> 0	SC I	ο,	66.2	4	on.	67.6 33%	64.7 350	60.4 33:		52.0 37	59.8	2
		!	Grab Tensile/Elongation	ASTM D4632		g Tens.	3 230.5		1 241.6			.9 222.5	.8 219.5	.9 226.7		.0 228.5					2,252 8.			_	122.0 232.0	120.9 214.2	120.2 223.7	119.4 233.2	124.5 229.2	
		#	Grab Ter		9	Tens. Elong (ibs) (%)	234.2 117.3		•	223.9 107.3	241.3 128.0	257.6 113.9	234.8 113.8	241.0 116.9	251.3 125.8	255.0 118.0	263.4 129.9				264.4 151.9 254.3 150.8						250.5 12	227.5 11	245.8 12	
	30091	BLACK 7ft 5in × 1020ft		Weight	ASTM	05281 (02/yd2)	6.7					9.00			3 6.5	3 6.4		3 6.7			ლ ფ ლ ფ								79	8.0
	Product Grade: TG600 Lot Number: 30091	Color: BLACK Roll Dimensions: 7ft Sin			Roll Test	No. Date	2011001 0000500003		-		3011090 08/26/2003	3011102 08/26/2003	_			3011130 08/26/2003		3011142 08/26/2003	3011154 08/27/2003	_	3011178 08/27/2003	3011190 002//2003								



SECTION FOUR
GEOCOMPOSITE MQC

	4600 East Monument Street	Baltimore, MD 21206	

Tracebility, 1	Peel and Trans	Tracebility, Peel and Transmissivity report	-			•		1-200-358-8486
PRODUCT: To	Tendrain 570-2			•	Ę	Bottom		ASTM D 4716
	GM Syracuse (Fisher Guide)	Gulde)			ASTM F904	ASTM F904	ASTIM F904	Transmissivity* (m2/sec)
Batch:	N	Ę	Bottom		Peel Adhesion	Peel Adhesion	Peel Adhesion	Value
* attaces	*	TEXTILE #	TEXTILE #	Rod Langth (FT)	lbs/m (avg.)	lbs/in (avg.)	Devin (reg.)	(VIII) COLUMN CO
rement	0300059	3001674	3001687	<b>200</b>	1.14	137	-	150×10°
0300302	6500050	3001674	3001687	8				
0300303	0300059	3001674	3001687	8 8		* a confining press	* a confining pressure of 10000 psf at a gradient of .10	a gradient of .10
0300304	0300059	3001674	3001687	8 8		with water at 20 c	with water at 20 degrees C with boundary conditions	ndary conditions
0300302	0300029	3001897	3001731	8 8	of plate/ unif	orm sand/composite/	80 mil HDPE/plate	of niste/ uniform sand/composite/ 80 mil HDPE/plate and a seating time of 100 hours
0300306	0300028	3001897	3001/31	8 8			•	
0300307	0300028	3001897	3001/51	3 8				
8060060	0300028	3001697	3001/51	8 8				
0300309	0300028	3001971	3001738	000				
USCUSIO CONTRACTO	0300036	3001971	3001738	500				
GOODS12	0300058	3001971	3001738	8				
0300313	0300058	3001971	3001738	50				
0300314	8500000	3001820	3001825	8				
0300315	0300028	3001820	3001825	88				
0300316	0300058	3001820	3001825	8 8				
0300317	0300058	3001820	3001825	88				
0300318	8500050	3001820	3001825	8				
0300319	8500050	3001820	3001825	8 8				
0300350	0300063	3011172	3011186	8, 6				
0300321	0300063	3011172	3011188	3 8				
0300322	0300083	2711105	3011100	8 6				
0300323	0300063	30111/2	3011186	808				
USUUSE4	030000	301172	3011175	8				
Sanca Participant	0300063	3011177	3011175	500				
0300327	0300063	3011177	3011175	80				
0300328	0300063	3011177	3011175	8				
0300329	0300063	3011177	3011175	8 8				
0300330	0300083	3011177	3011175	8 8				
0300331	0300080	301173	3011183	8				
0300333	0300000	3011173	3011183	500				
0300334	0300060	3011173	3011183	88				
0300335	0300060	3011173	2011167	3 8				
0300336	0900000	301168	3011187	500				
COOCS	0900000	3011168	3011167	800				
0300339	0900000	3011168	3011187	500				
0300340	0300060	3011168	3011176	<u>+</u>				
0300341	0300061	3011168	3011178	8				
0300342	1300061	3011168	3011178	88				
0300343	0300061	3011168	301178	8 8				
0300344	1900081	3011188	3011186	8 6				
0300345	190000	9011100	2011178	8				
0300346	GOODE	3	,	İ				

Tested by.

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PRODUCT:	Tendrain 570-2				,	Dottom		ASTM D 47
ë	GM Syracuse (Fisher Guide)	ide)			001	ACTA FORM	ASTM FB04	Transmissivity
Balch:	8				ASI WILLY	The state of the s	Day Arthuring	Value
		<b>6</b>	Bottom		Peel Achesion	Peel Agnesion		rement business
COMPOSITE		TEXTILE #	TEXTILE #	Roll Length (FT)	(Bos) uyag	Devin (avg.)	IDB/III (Led.)	industrial services
0300347	0300061	3011189	3011178	8			•	
0300348	0300062	3011189	300384	<u>8</u>				
0300349	0300062	3011170	300384	<b>5</b> 00				
0300350	0300082	3011170	300384	<b>5</b> 00				
0300351	0300062	3011170	300384	8				
0300352	0300082	3011170	300384	8				
0300353	0300062	3011170	300384	8				
0300354	0300082	3011169	300384	200				
0300355	0300082	3011169	300384	8				
0300356	0300082	3011169	300384	8				
0300357	2300057	3011188	3011174	200				
0300358	0300057	3011188	3011174	200				
0300359	0300057	3011188	3011174	8				
0300360	0300057	3011188	3011174	8				
0300361	0300057	3011180	3001251	8				
0300362	290000	3011180	3001251	<b>3</b> 5			•	
0300383	0300057	3011180	3001251	8				
0300384	2500050	3011069	3011107	200				

Tosted by:

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Office: 410-522-7000 Fax: 410-522-7015 Order Line: (800) 356-8495 Waste Mgt: (800) US-GRIDS

### **QUALITY CONTROL SUMMARY** Tenax Triplanar Tendrain 570-2

Date: September 23, 2003 Batch #3

Project: GM Syracuse

Submitted to: Jim Magnoli New England Liner Systems 35 Wooster Court Bristol, CT 06010

> Performance In Plastic Technology<sup>sм</sup>



Order Line: (800) 356-8495 Waste Mgt: (800) US-GRIDS

## **Table of Contents**

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Geocomposite MQC	4



# **SECTION ONE**

# **CERTIFICATION AND SPECIFICATON**

Performance in Plastic Technology<sup>sм</sup>



RE:

GM Syracuse

Tendrain 570-2 (200' x 6.7')

Batch #3

September 23, 2003

Tenax Corporation certifies per the required frequency the following roll numbers,

0300501 0300502 0300503 0300504 0300505 0300506 0300507 0300508 0300509 0300510 0300511 0300512 0300513 0300514 0300515 0300516 0300517 0300518 0300519 0300520 0300521 0300522 0300523 0300524 0300525 0300526 0300527 0300528 0300529 0300530 0300531 0300532 0300533 0300534 0300535 0300536 0300537 0300538 0300539 0300540 0300541 0300542 0300543 0300544 0300545 0300546 0300547 0300548 0300549 0300550 0300551 0300552 0300553 0300554 0300555 0300556 0300557 0300558 0300559 0300560 0300561 0300562 0300563 0300564 0300565 0300566 0300567 0300568 0300569 0300570 0300571 0300572 0300573 0300574 0300575 0300576 0300577 0300578 0300579 0300580 0300581 0300582 0300583 0300584 0300585 0300586 0300587 0300588 0300589 0300590 0300591 0300592 0300593 0300594 0300595 0300596 0300597 0300598 0300599 0300600 0300601 0300602 0300603 0300604

of Tendrain570-2, to be shipped to the above referenced project are in accordance with the properties listed throughout this submittal showing compliance with the attached specifications. Those rolls were manufactured in accordance with the Tenax Manufacturing Quality Control / Quality Assurance Plan.

This MQC submittal consists of the following sections:

Section 2 contains the geonet Manufacturing Quality Control (MQC); Section 3 entails the MQC on the geotextile used for the manufacture of these geocomposites. Section 4 describes in detail all geocomposites roll numbers, describe their respective geotextile roll numbers and geonet roll numbers, as well as geocomposite transmissivity and peel strength.

Respectfully submitted,

Tim Bauters, Ph.D.

Senior Quality Control Manager

Performance in Plastic Technology<sup>™</sup>



### **TENDRAIN 570-2**

#### **UBLE-SIDED GEOCOMPOSITE**

GM SY, NYC

b = Minimum Average Roll Value (MARV)

d = Maximum Value

e drainage geocomposite is comprised of a tri- and bottom ribs and with a thermally bonded, no	planar geonet struc n-woven geotextile o	ture consisting of thick on both sides. The proc	supporting ribs with diago	nally placed top high Transmissivity
in a soil environment under high normal loads an	d will have propertie	es conforming with the	values and test methods li	sted below:
PROPERTIES	TEST METHOD	UNIT	VALUE	QUALIFIER
GEONET CORE				
Tensile Strength - MD	ASTM D4595	lb/ft (kN/m)	1000 (14.6)	c, Note 1, 4
Compressive Behavior (% Retained thickness)		• •	• •	
@40,000 psf (short term)	ASTM D1621	<b>%</b>	50	a, Note 2, 4
@25,000 psf (10,000 hours)		%	65	a, Note 4
Density	ASTM D1505	g/cm <sup>3</sup>	0.94	c, Note 4
Melt Flow Index	<b>ASTM D1238</b>	g/10 min.	1.0	d, note 4
Carbon Black Content	ASTM D4218	%	2.0	a, Note 4
Thickness	ASTM D5199	mils (mm)	275 (7.0)	c, Note 3, 4
GEOTEXTILE	• *			
Apparent Opening Size (AOS)	<b>ASTM D4751</b>	US Sieve (mm)	70 (0.21)	b, Note 4
Weight	<b>ASTM D3776</b>	oz/yď² (g/m²)	6 (203)	b, Note 4
Water Flow Rate	ASTM D4491	gal/min/ft² (lpm/m²)	110 (4483)	b, Note 4
Permeability	ASTM D4491	cm/sec	0.24	b, Note 4
Permittivity	ASTM D4491	sec <sup>-1</sup>	1.3	b, Note 4
Puncture Strength	ASTM D4833	ibs (N)	80 (355)	b, Note 4
Trapezoid Tear	ASTM D4533	lbs (N)	65 (290)	b, Note 4
Grab Tensile Strength	<b>ASTM D4632</b>	lbs (N)	160 (712)	b, Note 4
Grab Elongation-MD	<b>ASTM D4632</b>	%	50	b, Note 4
Mullen Burst	<b>ASTM D3786</b>	psi (kPa)	285 (1965)	b, Note 4
'.'' Resistance @ 500 Hours	ASTM D4355	%	70	b, Note 4
JEOCOMPOSITE				
Roll Width		ft (m)	6.7 (2.0)	a, Note 5
Roll Length		ft (m)	200 (61)	a, Note 5
Ply Adhesion	ASTM F904 (modified)	lb/in (N/m)	1.0 (175)	c, Note 6
HYDRAULIC BEHAVIOR OF GEOCOMPOSITE				
Transmissivity - MD				c, Notes 7
Gradient/Load:			10,000 psi (480 kPa)	
0.1	ASTM D 4716	m²/sec	1.5x10 <sup>-9</sup>	

#### NOTES:

 Tensile properties tested by manufacturer every 50,000 square feet of product per ASTM D4595 with a specimen width of 8.0 in. and cross-head speed of 0.4 in/min

c = Minimum Average Value

Qualifiers: a = Typical Value

- 2. Short term compressive behavior tested by manufacturer every 50,000 square feet of product per ASTM D1621 with a 4 in.x4 in. 4 in.x4 in. specimen and a constant rate of strain of 0.04 in./min.
- Thickness measured by manufacturer every 50,000 square feet of product per ASTM D5199 with a 2.22 in. diameter presser foot and 2.9 psi pressure.
- 4. Geotextile and geonet properties listed are prior to lamination. Geotextile is tested at the industry standard frequency.
- 5. Roll dimensions are measured at the time of manufacture.
- 6. Ply Adhesion is tested by the manufacturer every 100,000 st of production per modified ASTM F904, with a 2 inch wide (5 longitudinal ribs) by 10 inch long strip. The geotextile bonded to either side of the geonet is pulled apart at a peeling rate of 12 in/min., for at least 4 inches of peeling distance. The reported value for each laminated side is the average of the "peak" values from 5 tested samples. The 5 samples are cut evenly distributed along the roll width with a 1 foot margin from both edges of the roll.
- Geocomposite transmissivity measured by manufacturer every 200,000 square feet of product as per ASTM D4716-99
  with testing boundary conditions as follows: steel plate / uniform sand / geocomposite / 60 mil HDPE geomembrane /
  steel plate, and seating period of 100 hours.



**SECTION TWO** 

GEONET REPORT AND MQC

Performance in Plastic Technology<sup>sм</sup>

Office: (410) 522-7000 Ord Fax: (410) 622-7016 War Web Site: www.tenaxus.com

Order Line: (800) 356-8495 Waste Mgt: (800) US-GRIDS

### **Geonet MQC Test Results**

**Product** 

TD 5 (200')

Project Lot#

Batch 3

Dimensions

6.7' x 'à ¿à' ;)4

Testing Lab

Tenax

	Geonet Roll	Date Tested	Thickness ASTM D5199 (mils)	Density ASTM D1505 (g/cm3)	CarbonBlack ASTM D4218 (%)	MFI ASTM D1238 (g/10min)	Tensile Strength ASTM D4595 (lb/ft)
	0301352	8/26/2003	302	0.950	2.90	0.550	1325
	0301383	8/26/2003	287	0.950	2.95	0.550	1112
	0301414	8/27/2003	301	0.950	2.45	0.550	1213
	0301444	8/28/2003	308	0.950	2.95	0.550	1296
	0301474	8/29/2003	310	0.950	2.85	0.550	1296
Average			302	0.950	2.82	0.550	1248
Standard Dev.			9	0.000	0.21	0.000	87
Specifications			275	0.940	2.00	<1	1000

Compression			
<b>Load</b> (psf) 40000	Roll#	Thickness Retained (%)	Specification (%) 50
	0301352	56.00	50
	0301383	55.00	50
	0301414	54.00	50
	0301444	52.00	50
	0301474	53.00	50
A	verage (Specs)	54.00	50

Tested by

Eric Thompson

Checked by

David Mitchell

Date

9/23/2003

Date

9/23/2003



SECTION THREE
GEOTEXTILE MQC

Performance in Plastic Technology<sup>s™</sup>

Product Gr	Product Grade: TG800 Lot Number: 20075 Color: BLACK	800 75 ACK	. 9				<del>р</del> Ф	Tenax Mfg. / LC QA/QC Laboratory Evergreen, Alabama Norwoven Test Rolls	A LC oratory Jabama Test	a control - cont		Ē	Reviev QA: Engineer:	Reviewed By:		Page 1 of 1
				Grab Tensile/Elongation ASTM D4632	/Elongatik D4632	e e										· •
=	Teat	Weight	M.D.	_	C.D.			Puncture Resistance	Trap.Tear ASTM D4533		Thickness ASTM	Hydrau ASTM	Hydraulic Tests ASTM D4491	Water	A.O.S. ASTM	
Š.	Date	D5261 (oz/yd2)	Tens (lbs)	Elong (%)	Tens. (Ibs)	Elong (%)	D3786 (psi)	ASTM D4833 (lbe)	MD (Ibs)	8	05199 (mils)	Permit. 1 (sec-1)	Permit. Perm.(Kv) sec-1) (cm/sec)	Flow (gpm/ff2)	(mm)	
2009370	2006/2002	6.4	188.3	157.2	212.8	76.2	290.9	103.7	79.6	80.8	8	2.26	0.541	168.9	0.184	
2009383	06/05/2002	8.9	187.0	154.4	228.1	72.3	304.8	92.6	81.0	85.3	8	1.97	0.455	147.0	0.186	
2009394	2009394 06/02/2002	6.3	187.9	156.6	216.9	72.8	296.1									
2009404	06/02/2002	6.3	195.6	147.4	248.2	70.7	317.1	101.5	129.0	150.8	8	2.29	0.540	171.5	0.207	
	Average =	6.5	189.7	153.9	226.5	73.0	302.2	99.3	96.5	105.6	26.7	2.17	0.512	162.5	0.192	
Standard Deviation	wiation =	ભ	4.0	4.5	15.8	2.3	11.5	5.9	28.1	38.1	2.3	₩.	0.049	13.5	0.013	

Ř	24-ust						₽`	Tenax Mfg. AL	AL C	·····			Review	Reviewed By:	\ \	
Produc	Product Grade: TG600	3600					- W	المعلقة المعلقة المعلقة المعلقة المعلقة المعلقة المعلقة المعلقة المعلقة المعلقة المعلقة المعلقة المعلقة المعلقة	Jabama				ð	5	7	
Ę	Lot Number: 20123	1123						Nonwoven Test	Test			En En	Engineer:			
	Color: BLACK	ACK						Rolls						**		
Roll Dim	Roll Dimensions: 7ft 5in x 1000ft	15in x 100	Ę					Lot Summary	nary							Page 1 of 1
			Ga	Grab Tensile/Elongation ASTM D4632	/Elongati 04632	i o					•	:	•		9	
Č	ļ	Weight	M.D.	ć	C.D.	۵		Puncture Resistance	ASTM D4533	Teer 34533	Thickness ASTM	ASTA	ASTM D4491	Water	ASTIM	
S O	Date	D5261 (ozlyd2)	Tens.	Elong (%)	Tens. (lbs)	Elong (%)	D3786 (psi)	ASTM D4833 (lbs)		8	D5199 (mils)	Permit. (sec-1)	Permit. Perm.(KV) sec-1) (cm/sec)	Flow (gpm/ft2)	(mm)	
2016461	10/01/2002	6.3	241.3	157.8	263.3	62.2	308.4	107.7	121.6	129.2	89	2.99.	0.593	224.0	0.128	
2016463	10/01/2002		198.8	148.1	276.6	61.5	308.4									
2016474	10/01/2002		193.4	133.3	255.3	57.1	308.0	106.5	91.6	136.7	28					
2016/18	10/01/2002		186.9	148.5	252.6	64.2	293.5	109.5	104.9	99.1	8					
2016496	10/01/2002		191.2	156.6	249.8	66.2	312.5	104.3	97.6	100.8	7					
	Average	6.2	202.3	148.9	259.5	62.2	306.2	107.0	103.9	116.5	71.5	2.99	0.593	224.0	0.128	
Standard I	Standard Deviation =	ļ <del></del>	22.2	8.	10.8	3,4	7.3	2.2	13.0	19.3	4.7	8	0.000	o.	0.000	

Tenax Mfg. AL .C QA/QC Laboratory Evergreen, Alabama Nonwoven Test Rolls Lot Summary Roll Dimensions: 7ft Sin x 1020ft Product Grade: TG800 Color: BLACK Lot Number: 30011 18-Sep

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Reviewed By: /

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Engineer: \_

			g	th Tensile/Elong	Grab Tensile/Elongation	5				***************************************						
- T	į	Weight	M.D.		C.D.	۔ ف	40	Puncture Resistance	Trap.Tear ASTM D4533	Tear 24533	Thickness ASTM	Hydrau	Hydraulic Tests ASTM D4491	Water	AO.S.	
No.	Date	D5261 (oz/yd2)	Tems. (lbs)	Elong (%)	Tens. (Ds.)	Elong (%)	(pal)	ASTM D4833 (lbs)	(\$q) O <b>X</b>	8	(mils)	Permit. (sec-1)	Permit. Perm.(KV) (sec-1) (cm/sec)	Flow (gpm/ff2)	(mm)	
3001242	01/23/2003	6.4	232.0	168.6	275.3	88.1	385.7	122.0	89.5	104.3	23	1.62	0.307	122.6	0.125	
3001244	01/23/2003	6.4	266.9	179.8	265.4	61.9	371.4									
3001249	01/23/2003	6.4	243.5	175.5	272.2	65.5	390.3	120.2	93.7	101.4	<u>.</u>	٠			,	
3001258	01/23/2003	6.3	268.8	161.4	286.7	87.8	372.0	128.9	107.4	97.3	23	<b>1.8</b>	0.296	135.4	0.090	
3001262	01/23/2003	6.2	274.4	162.1	303.3	61.9	349.7						-			
3001283	01/23/2003	6.3													**************************************	
3001271	01/24/2003	6.3	284.3	159.2	280.4	59.9	384.0	125.3	105.6	g e	2					
3001279	01/24/2003	6.2	255.7	163.4	280.4	67.3	369.5	118.3	103.1	96.5	7					
3001287	01/24/2003	6.4			•						i					
3001291	01/24/2003	6.3	278.6	171.8	280.3	62.9	359.0	128.1	116.8	50 0	2					
3001303	01/24/2003	6.3	276.9	164.3	274.5	61.2	34.1	133.3	82.8	<b>3</b>	52	:	1			
3001315	01/24/2003	<b>6.4</b>	274.2	166.4	297.8	80.6	362.7	120.8	139.1	133.1	73	2.18	0.395	161.5	0.096	
3001317	01/24/2003	6.1	264.2	166.1	294.8	63.6	353.6			h a sel falla		•				
3001322	01/27/2003	6.1	242.2	157.8	275.2	54.4	386.7									
	Average	í	262.0	166.4	282.2	62.8	369.1	124.6	106.4	103.3	72.0	1.87	0.333	139.9	0.104	
Standard 1	Standard Deviation a	٠.	15.3	6.6	11.3	3.7	15.5	5.2	15.8	128	1.6	77	0.054	20.0	0.018	
		;														

Product Grade: TG600 Lot Number: 30013

Roll Dimensions: 7ft 5in x 1020ft Color: BLACK

Tenax Mfg. AL .C QA'QC Laboratory Evergreen, Alabama

Nonwoven Test Rolls Lot Summary

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Reviewed By	9. AQ	Engineer:	/

Page 1 of 3

1	AOS.	04751 (mm)	0.117				0.094											!	0.097							0.097					0.100					0.110
		Flow Dr (gpm/ft2) (r	131.4 0				129.3												137.1							194,5					174.5					205.5
	Hydraulic Tests ASTM D4491	Permit. Perm.(KV) sec-1) (cm/sec) (	0.300				0.290												0.358						;	0.453					0.441				i	0.477
	Hydrau AST	Permit. (sec-1)	1.76				1.73												8							8					233					2.75
	Thickness ASTM	(mils)	79		2		52		78		49			7		£	7		2	92	73	75	-	8	22	8	22	8	E.	2	8	7	2	16	2	4
	Trap.Tear ASTM D4633	8 <u>\$</u>	102.4		88.9		86. 8.8		102.5		93.7			98.1	4 4	<b>88</b> 8.33	7.76		97.4	86.9	99.3	102.3		108.7	103.2 E	124.3	1124	140.9	137.8	136.5	•	-				123.1
-		2	90.3		102.3		89.3		105.8		97.3			92.5		98.2	97.4		101.5	110.6	119.9	102.6		109.1	135.9	120.8	118.1	147.7	145.0	154.5	113.9	115.0	113.2	147.0	130.6	128.0
	Puncture Resistance	ASTM D4833 (lbs)	131.6		122.7		121.3		127.6		127.5			129.7		128.5	121.3		129.2	130.1	127.4	121.3		118.1	122.2	122.3	125.2	126.2	130.8	124.7	121.1	120.8	119.9	123.6	122	123.5
	M. Burst ASTM	03786 (pai)	404.9	398.0	398.0		365.4	396.9	397.1		389.4			386.1		363.2	351.6		350.3	375.3	372.1	374.1		371.9	363.1	332.8	367.1	367.3	377.4	353.3	348.4	356.2	355.7	343.8	352.0	359.7
To.	C.D.	Elong (%)	22	57.3	64.2		53.8	53.4	4.09		55.6			53.0		89	87.8		55.6	57.3	55.8	56,5		58.9	£.	58.6	57.9	55.8	5.5	69.3	60.0	62.2	62.6	55.9	61.9	61.7
Grab Tensile/Elongation ASTM D4632	0	Tens.	283.1	285.6	271.6		285.3	270.7	289.4		284.6			265.5		281.9	271.0		281.0	277.4	253.8	266.2		287.6	263.2	261.8	269.4	268.5	270.4	268.8	274.7	261.4	268.4	261.0	271.0	267.7
ASTM	K.D.	Flong (%)	148.2	145.0	156.0		137.8	140.9	140.3		138.7			130.3		140.0	141.7		140.1	144.0	144.5	147.1		139.4	137.3	145.4	140.0	133.7	150.6	148.3	143.5	139.3	140.5	157.7	148.1	156.3
ō	Z	Tens.	271.4	261.6	268.4		272.7	272.3	274.5		269.4			259.0		262.4	254.2		259.2	268.0	258.1	253.0		256.7	250.8	268.2	247.1	250.7	275.2	249.5	247.1	247.7	245.2	262.2	262.9	274.1
	Weight	D5261 (ox/yd2)	6.5	6.4	4,9	6.2	9.9	8.8	6.5	6.2	6.3	<b>6.4</b>	6.4	6.6	6.3	6.2	6.3	6.2	6.0	6.4	6.4	6.3	6.1	6.1	9.0	0.0	6.3	6.2	6.3	6.1	6.1	6.1	6.0	6.4	6.2	6.1
	į	Date	01/27/2003	01/27/2003	01/27/2003	01/27/2003	01/27/2003	01/27/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/28/2003	01/29/2003	01/29/2003	01/29/2003	01/29/2003	01/29/2003	01/29/2003	01/29/2003	01/29/2003	01/30/2003	01/30/2003	01/30/2003	01/30/2003	01/30/2003	01/30/2003	01/30/2003	01/30/2003
		Š	3001496	3001499	3001504	3001512	3001514	3001516	3001522	3001525	3001532	3001536	3001540	3001544	3001552	3001557	3001568	3001577	3001578	3001588	3001596	3001608	3001612	3001620	3001632	3001642	3001654	3001666	3001878	3001690	3001696	3001710	3001718	3001730	3001742	3001754

16-46

Product Grade: TG800 Lot Number: 30013

Color: BLACK

Roll Dimensions: 7ft Sin x 1020ft

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Tenax Mfg. AL .C QA/QC Laboratory Evergreen, Alabama Nonwoven Test Rolls Lot Summary

																															÷					
																																-		•		
	AO.S.	(mm)								0.120					0.120							0.110		0.110	0.115	0.100		0.100					0.100			
	Water	Flow (gpm/ft2)								127.9					134.9							128.1		134.7	125.9	133.7		129.6					130.8			
	lydraulic Tests ASTM D4491	Permit. Perm.(KV) sec-1) (cm/sec)								0.34					0.330							0.345		0.342	0.348	0.335		0.356					0.312			
	Hydraulic Tests ASTM D4491	Permit. P (sec-1)								1.7	•				1.80 80							1.81		1.82	1.73	1.79		1.86 86.				•	1.75			•
	Thickness ASTM	D5199 (mils)	76			8		20	29	22	92	8	•	22	8		8		29		52	z		92	8	75		R		Z		Z	22		22	2
*****************	7684 A533	8	131.0	****		91.8		7	126.3	<del>1</del> 6	107.7	111.7		106.9	101.0	*******	97.9	-	88.6		91.3	85.6		606	<b>4</b>	7		95.0	* ****	20.7		80.9	109.8		Z	ğ
	Trap.Tear ASTM D4533	MD (lbs)	128.3			<b>1.</b>		9.5	124.3	118.9	107.3	92.1		99.1	102.5		93.6		88.1		1.78	99.7		5.7	94.5	<b>3</b>		97.1		7.76		92.3	109.7		109.6	108.4
	Puncture Resistance	ASTM D4633 (lbe)	122.9			128.1		131.7	134.6	125.0	127.8	129.1		121.1	119.7		124.3		120.9		111.3	123.7		128.0	123.8	133.9		115.1		122.4		123.6	127.0		125.8	123 B
	M. Burst ASTM	D3786 (ps!)	357.0			348.4		353.0	373.1	370.2	361.2	371.8		363.6	359.3	343.1	350.3		342.6		353.5	346.7	357.7	343.7	356.4	357.6	357.7	361.9		353.2	345.3	345.0	341.5		362.1	255.2
5		Elong (%)	83.8 8.6			63.3		67.0	56.7	53.3	57.7	56.8		35.2	59.3	81.6	58.3		54.0		57.1	53.5	57.1	52.1	26.0	57.2	58.5	58.0		59.6		59.3	56.3		55.8	8,8
/Elongati	CO.		259.8			274.8		260.3	287.6	277.5	295.3	274.1		269.8	306.3	253.0	255.0		249.1		247.7	256.5	244.4	246.4	244.2	281.5	255.2	253.1		262.4		252.5	257.7		261.9	0.67
Grab Tensile/Elongation	Ġ	Elong (%)	159.7			151.3		158.9	152.9	141.3	148.2	137.8		138.8	143.8	136.5	152.7		149.0		138.8	134.6	142.1	139.8	140.7	143.4	148.2	147.6		155.1		150.3	159.3		160.3	150.0
6	Ğ.	Tens. (Ibs)	254.4			260.2		250.4	243.8	247.4	268.9	234.9		243.5	272.8	250.7	256.8		236.8		219.5	222.8	227.3	224.5	225.5	238.8	236.3	259.7		251.5		248.0	260.3		249.8	243.8
	Weight	D5261 (ce/yd2)	9.0	6.1	6.3	<b>6</b> .1	6.5	6.3	6.3	6.3	6.2	6.3	6.3	6.3	6.3	6.2	62	6.1	6.3	6.3	6.2	62	6.0	6.2	6.1	6.2	4.9	4.9	6.1	6.3	6.1	1.0	1.0	62	6.2	6
	-	Sat Sat Sat Sat Sat Sat Sat Sat Sat Sat	01/31/2003	01/31/2003	01/31/2003	01/31/2003	01/31/2003	01/31/2003	01/31/2003	01/31/2003	01/31/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/01/2003	02/02/2003	02/02/20/3	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/02/2003	02/03/2003	CONCE CONCE
	Roll	Š	3001766	3001771	3001774	3001778	3001786	3001790	3001800	3001812	3001822	3001834	3001836	3001846	3001848	3001850	3001857	3001863	3001868	3001873	3001876	3001686	3001897	3001896	3001902	3001907	3001910	3001919	3001946	3001952	3001958	3001982	3001972	3001976	3001962	3001000

Produc Lot I	Product Grade: TG800 Lot Number: 30013 Color: BLACK	Product Grade: TG600 Lot Number: 30013 Color: BLACK Roll Dimensions: 7ft Sin x 1020ft	ZOF				⊢ Φ M	Tenax Mfg. AL . ( QA/QC Laboratory Evergreen, Alabama Nonwoven Test Rolls Lot Summary	AL Coratory labama							Page 3 of 3	
			8	ab Tensili ASTM	Grab Tensile/Elongation ASTM D4632	5				ļ							1
je	Į.	Weight	Z	M.D.	C.D.		-	Puncture Resistance	Trap.Tear ASTM D4533	•	Thickness ASTM	Hydraufic Teets ASTM D4491	ic Tests D4491	Water	A.O.S. ASTM		
Š.	Onto	D5261 (oz/yd2)	를 <u>원</u>	Elong (%)	Fe S	Elong (%)	(psf)	ASTN D4833 (Ibe)		8	D5199 (mils)	Permit. Perm.(Kv) (sec-1) (cm/sec	(cm/sec)	Flow (gpm/ft2)	04751 (mm)		
3001998	02/03/2003	3 6.3			1				1								ı
3001999	02/02/2003	6.3	248.0	147.3	253.9	<b>23</b> 2	348.6	121.9	92.6	87.6	5	1.76	0.339	140.2	0.102		
3002000	02/03/2003	3 6.1															
3002002	02/03/2003	3 6.4	271.9	164.3	284.2	<b>5</b> 9.	357.8	120.3	105.1	111.7	23	2.68	0.455	200.6	0.090		
3002012	02/03/2003	3 6.0	225.6	147.2	261.6	53.6	358.9	122.0	98.6	113.7	8						
3002019	02/03/2003	3 6.4	253.0	147.7	259.3	60.0	372.4										1
	Average =	6.2	253.0	145.9	267.2	58.1	362.5	124.5	108.0	105.6	73.6	1.98	0.364	147.4	0.105		
	Standard Deviation =	ų	14.6	7.8	13.4	4.0	16.6	4.6	17.3	15.6	4.0	.37	0.059	28.5	0.009		



SECTION FOUR
GEOCOMPOSITE MQC

Performance in Plastic Technology<sup>sм</sup>

ransmissivity report
and
<u>8</u>
acebility,

PRODUCT	Tendrain 570-2							1-500-158-1-485
	GM Syracuse (Fisher Guide)	Suide			윧	Bottom	hat biline	ASTM D 471
Batch:	8	•			ASTM F904	ASTIM F904	ASTIM F904	Transmissivity" (m
		T op	Bottom		Peel Achesion	Peel Achesion	Peel Adhesion	Vatue
COMPOSITE	¥EJ	TEXTILE #	TEXTILE #	Holl Length (F.1)	IDS/N (BVQ.)	DS/III (dVI)	ומסיות (ומען.)	Wildian University
0300347	0301415	3011127	3001704	3 8				
0300549	0301356	3011128	3001704	8				
0300220	0301400	3011127	3001704	500				
3300551	0301386	3011147	3001704	8				•
1300552	0301386	3011147	3001758	88				
1300553	0301424	3011148	3011148	8 8				
1300554	0301451	8211128	3011150	8 8				
0300555	0301429	3011141	301150	8 8				
1300557	0301439	3011159	3011150	8				•
0300558	0301449	3011159	3011138	88				
0300559	0301397	3011141	3011138	800				
2300560	0301423	2009388	3011138	<b>500</b>				
1300561	0301454	3011148	3011138	8				
3300562	0301456	3011148	3011138	88				
300563	0301425	3001276	3011133	200				
0300564	0301387	3001278	3011133	<b>8</b> 2				
0300565	0301434	3011159	3011133	8				
3300586	0301459	2009388	3011133	82				
2300567	0301383	2009388	3011133	<b>8</b> 8				
3300568	0301430	2009388	3011144	ଥ				
0300569	0301426	2009368	3011144	ଷ୍ଟ				
3300570	0301466	3001758	301114	88			•	
1200671	0301437	3001738	4	88				
2750050	(50) 460 000 447	3011129	30114	8 %				
03005/3	(SO) 443	3011129	8 1 2	3 8				
1300575	CC01385	3011159	3011136	8.8	2.28	121	-	
0300578	0301465	3011278	3011136	82				
0300577	0301380	3001276	3011136	500				
0300578	0301384	3001278	3011136	8				
0300579	0301467	3001758	3011136	200			*	
0300280	0301458	3001758	3011136	<b>500</b>				
0300581	0301442	3011129	3011142	200				
2300582	0301441	3011129	3011142	8				
0300583	0301446	3011141	3011142	8				
3300584	0301444	3011141	3011142	8				•
0300585	0301488	3001965	3001885	<b>8</b> .				
3300588	0301432	3001985	3001568	ଷ୍ଟ				
1300587	0301372	3001784	3001568	88				
3300588	0301371	3011160	3001568	8				
0300589	0301373	3011124	3001568	8				
3300590	0301440	3011124	3011162	8				
300591	0301453	3001985	3011162	8				
3300592	0301431	3001985	3011162	ZM				

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scebility	
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	Teodrain 570.2							-
	GM Syracuse (Fisher	Guide)			Q.	Bottom		ASTIV
	8				ASTM F904	ASTM F904	ASTIM F904	Transmiss
		2	Bottom		Peel Adhesion	Peel Achesion	Peel Achesion	>
-	# NET#	TEXTILE #.	TEXTILE #	Roff Length (FT)	(Devin (avg.)	fbs/in (avg.)	(bev) wyeq)	(required t
1	0301436	2016307	3011162	8				
	0301455	2016307	3011162	800				
	0301457	3011124	3011156	<b>0</b> 2				
	0301462	3011124	3011156	8				
	0301450	3011143	3011156	500		•		
	0301464	3011143	3011158	800				
	0301469	3011143	3011156	8				
	0301428	3011143	2016491	200				
	0301395	3011124	2016491	8				
0300602	0301418	3011124	2016491	82				
	0301392	3011160	2016491	500				
	0301397	3011160	2016491	82				

Page 3 of 3

Tested by A

17AX Corn.	Monument Street, MD 21208
	4800 East Baitlimora

Tracebility,	Tracebility, Peel and Transmissivity report	missivity repor	+			a sheet and the	-	Builtimore, MD 21200	
PRODUCT: 1	Tendrain 570-2					:			
	GM Syracuse (Fisher Gulde)	(apin			<u>ф</u>	Bottom		ASIM D4/16	
Batch:	O)	Ę	Bothorn		Poel Achesion	Parel Achanism	Poet Achesion	I ranemasivny (majec)	
COMPOSITE	NET #	TEXTILE #	TEXTILE #	Roll Length (FT)	lbs/m (avg.)	(be/in (avg.)	lbs/m (req.)	(required transmissivity)	
0300501	0301408	3001866	3001776	200	2.74	3.30	-	2.28 × 10 °	
0300502	0301409	3001868	3001778	8				(1.50×10°)	
0300503	0301389	3001680	3001778	8 8		· a confinited president	• • confinito presente of 10000 per at a gradient of 10	t a gradient of .10	
0300505	0301423	3001778	3001776	3 8		with water at 20	with water at 20 degrees C with boundary conditions	indary conditions	
0300200	0301398	3001778	3001778	500	of plate/ unifo	xm sand/composite	/ 60 mil HDPE/plate	of plate/ uniform sand/composite/ 60 mil HDPE/plate and a seating time of 100 hours	
0300507	0301391	3001788	3001776	700		energy of the second			
0300208	0301414	3001788	3001776	500					
0300200	0301411	3001616	3001778	8 8					
0300510	0301412	3001816	3011139	8 8					
0300511	0301355	3001757	3011139	88					
0300513	0301370	3001757	3011139	8					
0300514	0301368	3001818	3011139	80					
0300515	0301368	3001788	3011135	8					
0300516	0301407	3001788	3011135	88					
0300517	0301382	3001816	2011135	8 8					
0300518	0301418	3001757	3011135	3 8					
0300520	0301403	3001757	3011130	8					
0300521	0301399	3001868	3011130	200					
0300522	0301382	3001888	3011130	8					
0300523	0301379	3001824	3011130	ଛ					
0300524	0301405	3001824	3011130	B 8					
030000	0301400	3001680	3011149	3 8					
0300527	0301381	3001680	3011149	8					
0300528	0301369	3001824	3011149	500	•				
0300529	0301357	3001788	3011149	8 8					
0300530	0301394	3001788	3011148	8 8					
0300532	0301383	3001824	3011127	8					
0300533	0301354	3011137	3011146	8					
0300534	0301367	3011137	3011146	8					
0300635	0301381	3011147	3011148	8					
0300536	G301376	3011147	3011134	800					
0300538	G01378	3011137	301134	8					
0300539	0301351	3011146	3011134	902					
0300540	0301470	3011137	3011134	200					
0300541	0301377	3011128	3011134	8			*		
0300542	0301380	3011128	3001988	8					
0300543	0301353	3011147	3001968	8 8					
0300544	(301364 2301363	3011147	3001988	3 8					
0300546	0301359	3011128	3001968	8		a toda fo			
		:	,	•					

Tested by  $\mathcal{H}$ 



Office: 251-578-9003 Fax: 251-578-6141

Web Site: http://www.tenaxus.com

### QUALITY CONTROL SUMMARY **Tenax TENDRAIN 570-2** Prepared for New England Liner Systems Date: November 1, 2004

Project: GM Fisher Guide Plant, NY

Submitted to: Jim Magnoli New England Liner Systems 35 Wooster Court Bristol, CT 06010



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Geocomposite MOC	5



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# **SECTION ONE SPECIFICATON**

Performance in Plastic Technology<sup>6™</sup>



### **TENDRAIN 570-2**

DOUBLE-SIDED GEOCOMPOSITE

GM Fisher Guide Plant, NY

n a soil environment under high normal loads a	TEST METHOD	<u>UNIT</u>	<u>VALUE</u>	QUALIFIER
PROPERTIES	TEST METHOD	OINI	TALOL	<u> 30</u>
GEONET CORE		u a - a - a - a - a - a - a - a - a - a	75 (42 0)	c, Note 1, 4
Fensile Strength - MD	ASTM D4595	ib/in (kN/m)	75 (13.0)	C, NOIS 1, 7
Compressive Behavior (% Retained thickness)		•		a, Note 2, 4
@40,000 psf (short term)	ASTM D1621	%	50	a, Note 4
@25,000 psf (10,000 hours)		<b>%</b>	65	*
lass Per Unit Area		oz/sy (g/m²)	39	c, Note 4
ensity	<b>ASTM</b> D1505	g/cm³	0.94	c, Note 4
let Flow Index	<b>ASTM D1238</b>	g/10 min.	1.0	d, note 4
arbon Black Content	<b>ASTM D4218</b>	%	2.0	a, Note 4
hickness	ASTM D5199	mils (mm)	275 (7.0)	c, Note 3, 4
EOTEXTILE			70 (0.04)	h Nota d
pparent Opening Size (AOS)	ASTM D4751	US Sieve (mm)	70 (0.21)	b, Note 4
/eight	ASTM D3776	oz/yd² (g/m²)	6 (203)	b, Note 4
later Flow Rate	<b>ASTM D4491</b>	gal/min/ft² (lpm/m²)	110 ( <del>44</del> 83)	b, Note 4
ermeability	<b>ASTM D4491</b>	cm/sec	0.2	b, Note 4
ermittivity	<b>ASTM D4491</b>	sec <sup>-1</sup>	1.3	b, Note 4
uncture Strength	<b>ASTM D4833</b>	lbs (N)	90 (400)	b, Note 4
apezoid Tear	<b>ASTM D4533</b>	lbs (N)	65 (290)	b, Note 4
ab Tensile Strength	ASTM D4632	ibs (N)	160 (712)	b, Note 4
Grab Elongation	<b>ASTM D4632</b>	%	. 50	b, Note 4
tullen Burst	<b>ASTM D3786</b>	psi (kPa)	325 (2241)	b, Note 4
IV Resistance @500 Hours	ASTM D4355	%	70	b, Note 4
EOCOMPOSITE			a 7 (a a)	a Note E
oll Width		ft (m)	6.7 (2.0)	a, Note 5
oil Length		ft (m)	200 (61)	a, Note 5
Ply Adhesion	ASTM F904 (modified)	lb/in (N/m)	1.0 (175)	c, Note 6
TYDRAULIC BEHAVIOR OF GEOCOMPOSIT			•	c Notes 7

Qualifiers: a = Typical Value

m<sup>2</sup>/sec

b = Minimum Average Roll Value (MARV)

500 psf

2.0x10<sup>-3</sup>

c. Notes 7

c = Minimum Value d = Maximum Value

### NOTES:

Transmissivity - MD

Gradient/Load:

0.33

Tensile properties tested by manufacturer every 50,000 square feet of product per ASTM D4595 with a specimen width of 8.0 in. and cross-head speed of 0.4 in/min

**ASTM D 4716** 

Short term compressive behavior tested by manufacturer every 50,000 square feet of product per ASTM D1621 with a

4 in x 4 in specimen and a constant rate of strain of 0.04 in./min.

Thickness measured by manufacturer every 50,000 square feet of product per ASTM D5199 with a 2.22 in. diameter presser foot and 2.9 psi pressure.

Geotextile and geonet properties listed are prior to lamination. Geotextile is tested at the industry standard frequency.

Roll dimensions are measured at the time of manufacture.

Ply Adhesion is tested by the manufacturer every 100,000 sf of production per modified ASTM F904, with a 2 inch wide (5 longitudinal ribs) by 10 inch long strip. The geotextile bonded to either side of the geonet is pulled apart at a peeling rate of 12 in/min., for at least 4 inches of peeling distance. The reported value for each laminated side is the average of the "peak" values from 5 tested samples. The 5 samples are cut evenly distributed along the roll width with a 1 foot margin from both edges of the roll.

Geocomposite transmissivity measured by manufacturer every 200,000 square feet of product as per ASTM D4716-99 with testing boundary conditions as follows: steel plate / geocomposite /steel plate, and seating period of 15 min.



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# SECTION TWO

**RESIN REPORT** 

Performance in Plastic Technology<sup>sм</sup>



Office: 251-578-9003 Fax: 251-578-6141

Web Site: http://www.tenaxus.com

# **Quality Control Laboratory**

REVIEWED BY:	: <i>(</i> (i.:	
QA_		
ENGINEER		

### Melt Flow Index **ASTM D 1238**

### PROCEDURE B AUTOMATIC

Conditions: Test Temp 190 C / 2.16 kg (formerly Condition E)

**Polvethylene** 

_	······································	1	1		
	Geonet Lot No.	Railcar No.	Railcar Lot No.	Melt FlowIndex g/10 min ASTM D1238	Density g/cc ASTM D 1505
İ	33074	CHBX-890450	PO981	.251	.954



Office: 251-578-9003

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# SECTION THREE GEONET REPORT AND MQC

Performance in Plastic Technology<sup>sM</sup> **Product Grade: TD5** 

Color: Black

Roll Dimensions: 13 x 610 ft

Lot Number: 33074

Tenax Mfg. AL LLC QA/QC Lab Net Product Report QA Engineer\_\_\_\_\_

Geonet Roll	Date Tested	Mass Per Unit Area (oz/sy)	Thickness ASTM D5199 (mils)	Density ASTM D1505 (g/cc)	Carbon Black ASTM D4218 (%)	arbon Black Tensile MD (%Retained thic STM D4218 ASTM D4595 (%) (lb/in) @ 40,000 p  2.94 80.17 61.5 2.66 92.40 54.5 2.54 100.60 59.3  2.71 91.06 58.43	Compressive Behavior (%Retained thickness) ASTM D1621 @ 40,000 psf
3303110	10/7/03	40.1	309.40	0.955	2.94	80.17	61.5
3303116	10/8/03	43.0	328.10	0.952	2.66	92.40	54.5
3303121	10/9/03	40.6	303.10	0.953	2.54	100.60	59.3
Ave	rage=	41.24	313.53	0.953	2.71	91.06	58.43
Std. Devi	_	1.54	13.00	0.002	0.21	10.28	3.58



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# SECTION FOUR GEOTEXTILE MQC

Performance in Plastic Technology<sup>sM</sup>

D1-NOV-zou4

Product Grade: TG600

Lot Number: 30107

Color: BLACK

Roll Dimensions: 14ft x 1610ft

Nonwoven Test Rolls Lot Summary

Tenax Mfg. AL CAQC Caboratory Evergreen, Alabama

Engineer: \_

Page 1 of 1

	•	ASTM ASTM	(mm)	0.086	900	0.00		:		0.086	0.000
		Water	(gpm/ff2)	114.4	,	* -	4	2		111.6	2.4
		ASTM D4491	(sec-1) (cm/sec)	0.283	0	0.292	000	0.500		0.258	0.051
	:	ASTA	(sec-1)	1.53	•	 6	9	<u>8</u>		1.50	<b>89</b> .
	. ;	Thickness ASTM	(mils)	74	í	<u>ج</u>	73	75		73.6	æί
		Trap.Tear ASTM D4833	3 6	95.7	;	101.5	80.2	97.2		93.7	9.3
	ı		(lbs)	83.5	;	86.8	88.2	129.5		7.76	21.3
		Puncture Resistance	ASTM D4833 (Ibs)	115.9		113.3	118.8	119.3		116.8	2.8
	Grab Tensile/Elongation ASTM D4632	M. Burst ASTM	D3786 (psi)	366.0	376.0	381.0	361.0	347.0		366.2	13.3
			Elong (%)	78.4	9.92	69.3	62.3	75.8		72.5	6.6
		ن ن	Tens. (lbs)	219.3	215.9	226.0	214.9	218.2		218.9	4.4
	ab Tensii	M.D.	Elong (%)	131.4	142.8	120.8	119.6	128 K	50.3	128.6	9.6
	Ğ	Z	Tens. (Ibs)	282.2	272.1	275.2	272.9	9	2007	271.8	4.0
		Weight	D5281 (oz/yd2)	6.5	6.4	9.9	4.0	8.6	6.3	6	} =
		je L	Date	10/06/2003			10/06/2003	10/06/2003	10/08/2003	Average	Standard Deviation =
			Š	3013892	3013895	3013896	3013899	3013902	3013904		Standard D



Office: 251-578-9003

Web Site: http://www.tenaxus.com

Fax: 251-578-6141

# SECTION FIVE GEOCOMPOSITE MQC

Performance in Plastic Technology<sup>™</sup>

# Tenax Corporation

	Gradient	0.33						
ASTM D 4716	<u> </u>	2.00 x 10 <sup>-3</sup>				my conditions of	varte	ź
ASTM D 4716	Transmissivity* (m2/sec) Vatue	2,81				a confining pressure of 500 psf. with boundary conditions of	steet plate/geocomposite/steel plate	and a seating time of 15 minutes.
ASTM F604	Peel Adhealon Iba/in (reg.)	-	•			* a confining pre	돢	<b>4</b>
Bottom Geckendie ASTM F\$04	Peel Adhesion Ibs/in (avg.peaks)	4.29						
Top Geotextile ASTM F904	Peel Adhesion Ibs/in (avg.peeks)	3.67						
	Roll length (ft)	200	200	200	200	80	200	200
ť	Bottom TEXTILE #	3013902	3013902	3013897	3013897	3013897	3013897	3013897
nissivity repo	TOP TEXTILE#	3013889	3013899	3013901	3013901	3013901	3013901	3013901
Tracebility, Peel and Transmissivity report PRODUCT: Tendrah 570-2 IOB: GM Fisher Guide Plent	NET#	3303117	3303117	3303117	3303118	3303118	3303118	3303119
Tracebility, F PRODUCT: JOB: G	COMPOSITE #	3507058	3507059	3507060	3507061	3507062	3507063	3507064

Barrier protection CQC – Test results and non-hazardous waste documentation



REVIEWEU

REVIEWED SOLELY FOR GENERAL

COMPLIANCE WITH CONTRACT

DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

104 7/24/3 By 134K

Date:

July 17, 2003

Subject:

Project Submittal #006 - Proposed Testing Laboratories

Ref. Section 02222, Part 1.3, Paragraph A.

Project:

Former Landfill IRM, Former IFG Facility

In accordance with the specifications for the above referenced project, Royal Environmental, Inc. herein submits the following testing laboratories for required material testing:

Density, Compaction, and Gradation, etc.:

Atlantic Testing Laboratories, Inc. 5866 State Route 31 Cicero, NY 13039

### Hazardous Material Testing:

O'Brien & Gere Laboratories, Inc. 5000 Brittonfield Parkway East Syracuse, NY 13057

o۲

Environmental Laboratory Services, Inc. 7280 Caswell Street North Syracuse, NY 13212

# STACE BACKHOE & TRUCKING, INC.

Backhoe Service - Bulldozer - Sand - Gravel - Septic Tank 2373 State Route 69, Camden, NY 13316 REVIEWED MEVIEWED SOLELY FOR GENERAL (315) 245-0370 COMPLIANCE WITH CONTRACT

AFFIDAVIT OF CLEAN MATERIAL OBRIEN & GERE ENGINEERS, INC.

DOCUMENTS

July 16, 2003

'Brien & Gere Eng	
ast Syracuse, NY	
ast syracuse, we	
e: Landfill Cap I	RM Project, Former Inland Fisher Guide
Pacility - Fill Ma	iterial Certification
2011107	
To Whom it May Cor	ncern:
This is to certify	y that the backfill material supplied to
Royal Environment	al, Inc. for Landfill IRM activities
	Former Inland Fisher Guide Facility was
	Central Square Embankment property of
Stace Backhoe & T.	rucking Inc. The material was not
	nown federal, state, local or private
contaminated land	site.
To the best of my	knowledge, the backfill material supplied is
clean and free fr	om hazardous contaminates.
·	Hitman Star Elman
	il pure some ingi
	N 22-2-2 Chang
	H. James Stace
<u> </u>	President
	Stace Backhoe & Trucking Inc
·	

WEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT **DOCUMENTS** O'BRIEN & GERE ENGINEERS, INC.

## **Analytical Results** Method: TCLP 8270

Job No.: 8077.001.517

Certification NY No.: 10155

Client: Royal Environmental, Inc.

Project:

Proj. Desc: East Syracuse, NY

Sample: N8541

Samp. Description: Central Square Embankment (TCLP)

Instrument: HP5972 GC/MS#6

Units: mg/L

Number of analytes: 18

Collected: 01/21/00

Received: 01/21/00

Prepared: 01/27/00

Matrix: Leachate QC Batch: 012700W2

%Solids:

Sample Size: .1 L

<b></b>		Surrog	
Parameter	Result	Limits Dilution	Analyzed Notes
Pyridine	<.50	1	01/31/00
1,4-Dichlorobenzene	<.10	1	01/31/00
2-Methylphenol	<.10	1	01/31/00
(3+4)-Methylphenol	<.10	1	•
Hexachloroethane	<.10		01/31/00
Nitrobenzene		1	01/31/00
Hexachlorobutadiene	<.10	1	01/31/00
2,4,6-Trichlorophenol	<.10	1	01/31/00
2,4,5-Trichlorophenol	<.10		01/31/00
	<.50	1	01/31/00
2,4-Dinitrotoluene	<.10	1	01/31/00
Hexachlorobenzene	<.10	1	01/31/00
Pentachlorophenol	<.50	1	01/31/00
2-Fluorophenol (surrogate)	88.%	64-122 1	01/31/00
Phenol-d5 (surrogate)	86.*	40-145	01/31/00
2,4,6-Tribromophenol (surrogate)	90.*	73-130	• •
Nitrobenzene-d5 (surrogate)	99.*		01/31/00
2-Fluorobiphenyl (surrogate)		50-141 1	01/31/00
Terphenyl-d14 (surrogate)	88.%	44-140 1	01/31/00
	87.%	25-179 1	01/31/00

Notes:

Date leachate created: 01/26/00

# - Outside control limits J-Estimated value

Authorized:

Date: February 1,2000

Analytical Results Wet Chemistry

REVIEWED REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS O'BRIEN & GERE ENGINEERS, INC.

Client: Royal Environmental, Inc.

Project:

Proj. Desc: East Syracuse, NY

Job No.: 8077.001.517

Certification NY No.: 10155

Sample: N8540

Samp. Description: Central Square Embankment

Collected: 01/21/00 09:00

Matrix: Solid

Received: 01/21/00 13:20

Parameter	Result Qual	MDL	RL	Units	Method	Prepared	Analyzed	QC Batch Note
Ignitability of Solids	Negative			Burn Rate (mm/sec)	1030		01/31/00	013100S21
Total releasable H2S	<50. ℧		50	mg/Kg Orig. wt.	SW846 Ch.7 sec	01/31/00	02/01/00	013100511
Total releasable	<25. ℧		25	mg/Kg Orig. wt.	SW846 Ch.7 sec	01/31/00	02/01/00	013100511
pН	8.2		.1	STD units	BPA 9045C		01/27/00	012700S22 17

Notes:

17: pH analyzed outside 15 minute holding time

'indetected at reported level. J-reported value is estimated.

Authorized: /

Date: February 3,2000

REVIEWED

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COMPLIANCE WITH CONTRACT

DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

### Analytical Results Trace Metals

Client: Royal Environmental, Inc.

Project:

Proj. Desc: East Syracuse, NY

Samp. Description: Central Square Embankment (TCLP)

Units: mg/L

Sample: N8541

Collected: 01/21/00 Received: 01/21/00

Matrix: Leachate

%Solids:

Job No.: 8077.001.517

Certification NY No.: 10155

Number of analytes: 8

Parameter	Result	Method	Prepared	Analyzed	QC Batch	Dilut. Note
TCLP Arsenic	<.5	1311/6010	02/02/00	02/06/00	020200W3	5
TCLP Barium	<.5	1311/6010	02/02/00	02/06/00	020200W3	5
TCLP Cadmium	<.1	1311/6010	02/02/00	02/06/00	020200W3	5
TCLP Chromium	<.5	1311/6010	02/02/00	02/06/00	020200W3	5
TCLP Lead	<.5	1311/6010	02/02/00	02/06/00	020200W3	5
TCLP Mercury	<.02	1311/7470	01/28/00	01/28/00	012800W1	50
TCLP Selenium	<.1	1311/6010	02/02/00	02/06/00	020200W3	5
TCLP Silver	<.5	1311/6010	02/02/00	02/06/00	020200W3	5

Notes:

Date leachate created: 01/26/00

' - timated value

Authorized:\_\_

Date: February 8,2000

REVIEWED **REVIEWED SOLELY FOR GENERAL** COMPLIANCE WITH CONTRACT **DOCUMENTS** GERE ENGINEERS, INC. Method: TCLP 8260

**Analytical Results** 

Job No.: 8077.001.517 Certification NY No.: 10155

Client: Royal Environmental, Inc.

Project:

Proj. Desc: East Syracuse, NY

Sample: N8541

Samp. Description: Central Square Embankment (TCLP)

Instrument: HP5970 GC/MS#2

Units: mg/L

Number of analytes: 14

Collected: 01/21/00 Received: 01/21/00

Matrix: Solid

QC Batch: 020700W2

Prepared: 02/07/00 %Solids:

Sample size: 25 ml

		Surrog		
Parameter	Result	Limits Di	lution	Analyzed Notes
Vinyl chloride	<.10		10	02/07/00
1,1-Dichloroethene	<.050		10	02/07/00
Chlorobenzene	<.050		10	02/07/00
1,2-Dichloroethane	<.050		10	02/07/00
Chloroform	<.050		10	02/07/00
Benzene	<.050		10	02/07/00
Trichloroethene	<.050		10	02/07/00
2-Butanone	<.10		10	02/07/00
Tetrachloroethene	<.050		10	02/07/00
Carbon tetrachloride	<.050		10	02/07/00
1,2-Dichloroethane-d4 (surrogate)	121.*	# 72-110	10	02/07/00
Dibromofluoromethane (surrogate)	142.%	# 80-127	10	02/07/00
Toluene-d8 (surrogate)	116.*	# 93-112	10	02/07/00
Bromofluorobenzene (surrogate)	116.*	81-120	10	02/07/00

Notes:

# - Outside control limits J-Estimated value

Authorized:

Date: February 8,2000

REVIEWED MEVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS O'BRIEN & GERE ENGINEERS, INC. **Analytical Results** Method: TCLP 8081

> Job No.: 8077.001.517 Certification NY No.: 10155

Client: Royal Environmental, Inc.

Project:

Proj. Desc: East Syracuse, NY

Sample: N8541

Samp. Description: Central Square Embankment (TCLP)

Primary column: Y

Units: mg/L

Column: DB-608, 30m x .53mm ID Dilution:

I Instrument: HP5890-90

Collected: 01/21/00

Received: 01/21/00 Prepared: 01/27/00

Analyzed: 02/24/00

Matrix: Leachate QC Batch: 012700W4

%Solids:

Sample Size: .2 L

Number of analytes: 7

Parameter	Result	Oual	Col Notes
Lindane	< .00025		1
Heptachlor	< .00025	U	1
Heptachlor epoxide '	< .00025	U	1
Endrin	< .00050	U	1
Methoxychlor	< .0025	U	1
Chlordane	< .0025	U	1
Toxaphene	< .0025	ΰ	1

Surrogate	Result Qual	Col	Limits	Notes
2,4,5,6-Tetrachloro-m-Xylene (surrogate)	65.%		45-121	
Decachlorobiphenyl (surrogate)	75.%	1	42-119	

Notes:

Date leachate created: 01/26/00

# - Outside control limits U - Undetected at the reported level.

<sup>1</sup> - reported value is estimated.

- concentration exceeded the calibration range and is estimated.

Date: February 25,2000

Client: Royal Environmental, Inc.

Project:

Proj. Desc: East Syracuse, NY

REVIEWEL!
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DOCUMENTS
WIRDIEN & GERE ENGINEERS, INC.

Analytical Results Method: TCLP 8151

Job No.: 8077.001.517

Certification NY No.: 10155

Sample: N8541

Samp. Description: Central Square Embankment (TCLP)

Primary column: Y

Units: mg/L

Column: DB-1701, 30m x .53mm ID
Dilution: 1 Instrument: HP5890-90

Collected: 01/21/00 Received: 01/21/00

Prepared: 01/31/00

Analyzed: 02/26/00

Matrix: Leachate
OC Batch: 013100H1

%Solids:

Sample Size: .2 L

Number of analytes: 2

Parameter	Result	Qual	Col Notes
2,4-D	< .1	Ū	2
2,4,5-TP (Silvex)	< .01	Ū	2

Surrogate	Result	Qual	Col	Limits	Notes
2,4-Dichlorophenyl acetic acid	116.%		2	46-120	

Notes:

\_ate leachate created: 01/26/00

# - Outside control limits U - Undetected at the reported level.

I - reported value is estimated.

E - concentration exceeded the calibration range and is estimated.

Authorized:

Date: February 28,2000

Thomas Alexander

5000 Brittonfield Parkway / Suite 300, Box 4942 / Syracuse, NY 13221 / (315) 437-0200



### PROJECT SUBMITTAL

Project Name:

Former Landfill IRM

Submittal No.:

010

Subject:

Former Landfill IRM - Submittal of Geotechnical Testing Results for

Select Fill, Niagara Mohawk 115 kV Transmission Line Poles

Project No.:

60709-5

Date:

September 24, 2003

### Attached you will find the following:

- Results of the particle size analysis testing (ASTM D422), performed by Atlantic
  Testing, on select granular fill that will be used as backfill for the Niagara Mohawk 115
  kV transmission line poles. Testing was performed in accordance with the NYSDOT
  Standard Specification 203-2.02C.1. (gradation).
- Results of the compaction testing analysis, performed by Atlantic Testing, on select granular fill that will be used as backfill for the Niagara Mohawk 115 kV transmission line poles. Compaction testing was performed on the material at the laboratory, in accordance with ASTM D 698-00a Method C Standard.
- Results of the in-place density testing analyses, performed by Atlantic Testing, on select granular fill that will be used as backfill for the Niagara Mohawk 115 kV transmission line poles. In-place density testing was performed on the in-situ material, placed and compacted as site backfill, in accordance with ASTM D 698.

Syracuse 5866 State Route 31 Cicero, NY 13039 315/699-5281 (T) 315/699-3374 (F)

### TRANSMITTAL

September 12, 2003

Mr. David Woodruff Reyal Environmental, Inc. P.O. Box 483 Fayettiville, New York 13066-0483 REVIEWED
REVIEWED SCHELY FOR GENERAL
COMPLIANCE WITH CONTRACT
DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 10/3/03 p. 13/

Rc:

Laboratory Testing

Former Inland Fisher Guide Plant

Syracuse, New York ATL File No. ST2318

Enclosed is one copy of the following test report:

ST2318SL-06-09-03

Particle Size Distribution Report

September 12, 2003

(Friday)

Please contact our office should you have any questions or if we may be of further service.

Sincerely,

ATLANTIC TESTING LABORATORIES. Limited

Thomas R. Bundle
Division Manager
Syracuse Testing Division
tbundle@atlantictesting.com

TRB/taf Enclosures



### Particle Size Distribution Report

Project: Former Inland Fisher Guede Plant, Syracuse, NY

Report No.: ST2318SL-06-09-03

Client: Royal Environmental, Inc.

Date: 09/12/03

Sample No: ST2318S08

Source of Sample: Central Square Gravel

Elev./Depth: NA

Location: On-Site Stockpile

80 PERCENT PASSING 70 60 50 40 30 20 10 0.001 GRAIN SIZE - mm

OTANY OILE - TIME									
* 00001 70	% GR	AVEL	% SAND			% FINES			
% COBBLES	CRS.	FINE	ÇRS.	MEDIUM	FINE	SILT	CLAY		
0	9	29	12	14	23	13			

	SIEVE	PERCENT	SPEC.	DUT OF
١	SIZE	FINER	PERCENT	SPEC. (X)
	4 in. 2 in. 1.5 in. 1 in. 3/4 in. 1/2 in. 3/8 in. 1/4 in. #40 #20 #40 #80 #200	100 100 98 95 91 82 75 67 62 50 43 36 21	0 - 70 0 - 15	

Brown cmf+ \$A	Soil Description ND, little Silt/Clay, s	
PL=	Atterberg Limits	Pl=
D85= 14.4 D30= 0.300 Cu=	Coefficients D60= 4.20 D15= 0.101 Co=	D <sub>50</sub> = 2.00 D <sub>10</sub> =
USCS= SM	Classification AASH	ro= n'a
	Remarks ient on 09/11/03 vithout hydrometer)	
REVIEWE	n	,

Select Granular/Structural Fill

ATLANTIC TESTINE LEMETRACORIES CONCERNERAL

Reviewed by:

COMPLIANCE WITH CONTRACT Place 7/12/03 **DOCUMENTS** 

O'BRIEN & GERE ENGINEERS, INC.

Syracuse 5866 State Route 31 Cicero, NY 13039 315/699-5281 (T) 315/699-3374 (F)

### TRANSMITTAL

September 23, 2003

Mr. David Woodruff Royal Environmental, Inc. P.O. Box 483 Favettiville, New York 13066-0483 REVIEWED

REVIEWED SCHELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 10303 By BAK

Re:

Laboratory Testing
Former Inland Fisher Guide Plant
Syracuse, New York
ATL File No. ST2318

Enclosed is one copy of the following test report:

ST2318SL-06-09-03

Compaction Test Report

September 15, 2003

(Monday)

Please contact our office should you have any questions or if we may be of further service.

Sincerely,

ATLANTIC TESTING LABORATORIES, Limited

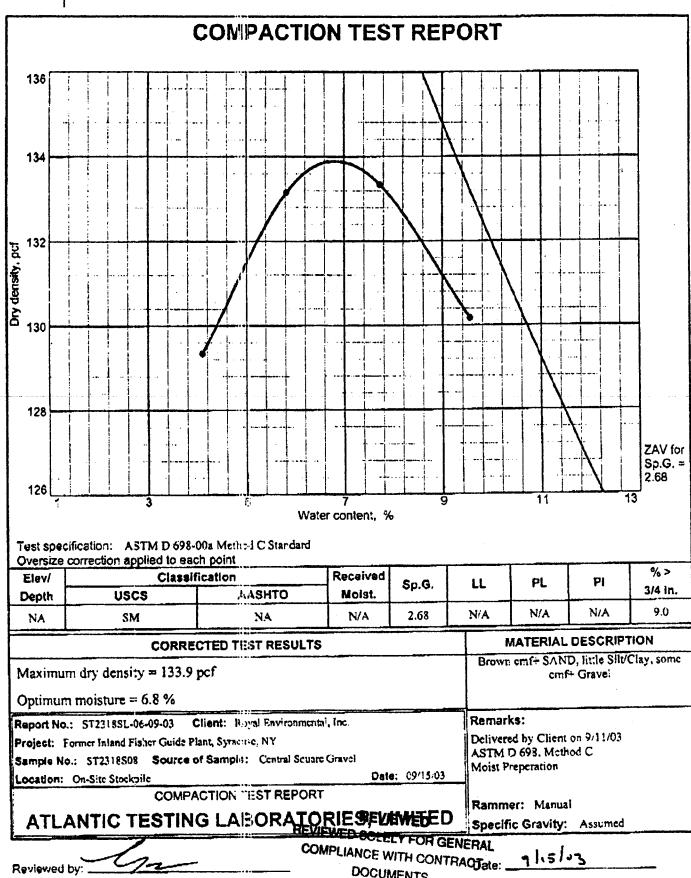
Thomas R. Bundle

Division Manager

Syracuse Testing Division thundle@atlantictesting.com

TRB/taf
Enclosure

al



DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 10303 By BAK

Syracuse 1866 State Route 31 Ciccro, NY 13039 315/699-5281 (T) 315/699-3374 (F)

### TRANSMITTAL

September 23, 2003

Mr. David Woodruff Royal Environmental, Inc. P.O. Box 483 Fayettiville, New York 13066-0483

REVIEWED AND NOTED REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS O'BRIEN & GERE ENGINEERS, INC. 10.3/03 By\_

Re:

Soil Testing

SPEDES Treatment System IRM and

Enclosed is one copy of the following test reports:

Former Drainage Swale IRM

Field density test results for the Drainage Suale IRM and the SPDES Treatment System IRM in Separate Submittals. See correspondence for Former Inland Fisher Guide Plant (General Motors)

Syracuse, New York

ATL File No. ST2318

(Friday) September 12, 2003 ST2318S-16-09-03 Daily Soil Report September 15, 2003 (Monday) ST2318S-17-09-03 Daily Soil Report (Tuesday) September 16, 2003 Daily Soil Report ST2318S-18-09-03 (Tuesday) September 16, 2003 Daily Soil Report ST2318S-19-09-03 (Wednesday) September 17, 2003 ST2318S-20-09-03 Daily Soil Report

Please contact our office should you have any questions or if we may be of further service.

Sincerely,

ATLANTIC TESTING LABORATORIES, Limited

Thomas R. Bundle Division Manager

Syracuse Testing Division tbundle@atlantictesting.com

TRB/taf Enclosures



### DAILY SOIL REPORT NUMBER ST2318S-16-09-03

Page 1 of 2

CLIENT:

Royal Environmental

DATE: September 12, 2003

PROJECT:

(Friday)

SPEDES Treatment System IRM and

Former Drainage Swale IRM

Former Inland Fisher Guide Plant (General Motors)

ATL REPRESENTATIVE: J. Radley

CONTRACTOR: Royal Environmental

Syracuse, New York

NUCLEAR DENSITY GAUGE DATA

Gauge Model No.:

Traxler 3430

Moisture Standard:

597

Gauge Serial No.:

33267

Density Standard:

2655

#### FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the in-situ material (ATL Sample No. ST23815-01), placed and compacted as site backfill.

Project specifications require 90% of the maximum dry density, as determined by ASTM D 698.

### IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Elevition	Optimum Moisturc Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
		3	0' from Exis	ting G.M. Plan	t			
I	15' East of West limit, 180' South of North limit	•1.5	10.8	124.2	121.6	9.3	111.3	90
2	20' East of West limit, 120' South of North limit	-2 🖓	10.8	124.2	133.6	8.8	122.8	99
3	25' East of West limit, 20' South of North limit	-2.5	10.8	124.2	125.0	11.2	112.1	90
4	85' East of West limit, 20' South of North limit	-2.7	10.8	124.2	132.0	11.7	118.2	95
5	90' East of West limit, 80' South of North limit	2.0	10.8	124.2	121.4	9.8	111.1	90
6	175' South of North limit, 80' East of West limit	-2,0"	10.8	124.2	132.1	8.8	121.4	98
7	180' South of North limit, 125' East of West limit	-2.01	10.8	124.2	127.2	12.8	112.8	91
8	100' south of North limit, 120' East of West limit	-1.5	10.8	124.2	132.9	13.1	117.8	95
9	35' South of North limit, 130' East of West limit	-1.5	10.8	124.2	122.1	9.9	110.9	89
10	30' South of North limit, 185' East of West limit	-2.0'	10.8	124.2	136.7	14,4	119.6	96

REVIEWED AND NOTED

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT

DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
11	90' South of North limit, 175' East of West limit	-1 1)	10.3	124.2	126.5	10.7	114,3	92
12	138' South of North limit, 168' East of West limit	-1.5	10.8	124.2	133.3	14.4	116.2	94
13	145' South of North limit, 210' East of West limit	-1.:5	10.8	124.2	121.7	9.4	110.7	89
14	80' South of North limit, 215' East of West limit	-2.0	10.8	124.2	129.9	11.8	116.2	94
15	25' South of North limit, 205' East of West limit	-2.5	10.8	124.2	124.8	7.9	115.7	93
16	15' South of North limit, 260' East of West limit	-2.5	10.8	124,2	134.1	8.8	123.2	99
17	65' South of North limit, 255' East of West limit	-2.0*	10.8	124,2	133.9	5.3	127.1	100+
18	170' South of North limit, 255' East of West limit	-1.37	10.8	124.2	133.5	6.0	125.9	100+
19	170' South of North limit, 120' West of East limit	-1.5"	10.8	124.2	125.5	6.9	117.4	95
20	75' South of North limit, 120' West of East limit	-2.(1)	10.8	124.2	137.9	11.0	124.3	190
21	15' South of North limit, 120' West of East limit	<b>-1</b> .5°	10.8	124.2	133.4	8.2	123.3	99
22	20' South of North limit, 65' West of East limit	-1.5°	10.8	124.2	129.8	8.5	119.6	96
23	85' South of North limit, 55' West of East limit	-2.0	10.8	124.2	134.3	9.4	122.8	99
24	150' South of North limit, 55' West of East limit	-2.0	10.8	124.2	136.6	8.7	125.7	100+

### REMARKS

Test elevations are referenced from the top of pavement.

Mr. David Woodruff, representing Royal Environmental was informed of all observations and test results prior to departure from the site.

### **REVIEWED AND NOTED**

REVIEWED SOLELY FOR GENERAL
COMPLIANCE WITH CONTRACT
DOCUMENTS
O'BRIEN & GERE ENGINEERS, INC.

Det 10/3/03 By 12AK

Reviewed by	Me	Date:	9/22/-3



### DAILY SOIL REPORT NUMBER ST2318S-17-09-03

CLIENT:

Royal Environmental

DATE: September 15, 2003 Page 1 of 2

(Monday)

PROJECT:

SPEDES Treatment System IRM and

Former Inland Fisher Guide Plant (General Motors)

ATL REPRESENTATIVE:

D. Brazell **REVIEWED AND NOTED** 

Former Drainage Swale IRM

**REVIEWED SOLELY FOR GENERAL** 

Syracuse, New York

**COMPLIANCE WITH CONTRACT** 

CONTRACTOR: Royal Environmental

NUCLEAR DENSITY GAUGE DATA

DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Gauge Model No.:

Troxler 3430

Moisture Standard: Density Standard:

Gauge Serial No.:

33275

#### FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the brown sand and gravel supplied by Central Square Gravel (ATL Sample No. ST2318S-08). placed and compacted as utility pole excavation backfill.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 698.

#### IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pef)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
			Utility Pole E	xcavation (#2)				
i	5' from South side of excavation	-7,01	6.8	133.9	144.3	4.4	138.2	100+
2	5' from North side of excavation	-9.0	6.8	133.9	134.2	6.3	142.8	100+
3	Middle of excavation	-10.0	6.8	133.9	142.7	4.8	136.2	100+
4	Middle of excavation	-13.0	6.8	133.9	138.9	5.1	132.1	99
5	5' from South side of excavation	-5.6)*	6.8	133.9	142.4	4,9	135.7	100+
6	5' from North side of excavation	-7.0	6.8	133.9	139.3	3.9	134.0	100

#### REMARKS

Test elevations are referenced from the top of excavation subgrade.	• .
A representative of Royal Environmental was informed of all observations and test results prior to departure from the si	iitc

			-1 1
Reviewed by:	Na	_ Date:	9/22/07



### DAILY SCILL REPORT NUMBER ST2318S-17-09-03

Page 2 of 2

CLIENT:

Royal Environmental

DATE: September 15, 2003

PROJECT:

(Monday)

SPEDES Treatment System IRM and

ATL REPRESENTATIVE: D. Brazell

Pormer Drainage Swale IRM

REVIEWED AND NOTED

Former Inland Fisher Guide Plant (Cieneral Motors) Syracuse, New York

**REVIEWED SOLELY FOR GENERAL** 

CONTRACTOR: Royal Environmental

COMPLIANCE WITH CONTRACT

NUCLEAR DENSITY GAUGE DATA

DOCUMENTS

Moisture Standard:

O'BRIEN & GERE ENGINEERS, INC.

Gauge Model No.: Gauge Serial No.:

Troxler 3430

33275

Density Standard:

#### FIELD INFORMATION

At the request of Mr. David Woodruff, represerting Royal Environmental, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the in-situ material (ATL Sample No. ST2318S-01), placed and compacted as north swale construction backfill, north of treatment building.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 698.

### IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Blevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
1	50' West of treatment building	-5.()'	10.8	124.2	137.7	13.6	121.2	98
2	70' West of treatment building	-5.(1)	10.8	124.2	140,4	12.9	124.4	100
3	90' West of treatment building	-5.01	10.8	124.2	139.8	13.1	123.6	99
4	i 10' West of treatment	-5.()*	10.8	124.2	142.9	12.6	126.8	100+

### REMARKS

Test elevations are referenced from the top of north swale su	ibgrade.
A representative of Royal Environmental was informed of a	il observations and test results prior to departure from the site.

			1
Reviewed by:	U2_	Date:	9/22/03



### DAILY SOIL REPORT NUMBER ST2318S-18-09-03

Page 1 of 2

CLIENT:

Royal Environmental

September 16, 2003 DATE:

(Tuesday)

PROJECT:

SPEDES Treatment System IRM and

ATL REPRESENTATIVE:

T. Bundle/D. Brazeli

Former Drainage Swale IRM Former inland Fisher Guide Plant (General Motors)

REVIEWED AND NOTED

Syracuse, New York

REVIEWED SOLELY FOR GENERAL

CONTRACTOR: Royal Environmental

COMPLIANCE WITH CONTRACT

NUCLEAR DENSITY GAUGE DATA

**DOCUMENTS** 

Gauge Model No.:

Troxler 3430

Moisture Standard:

O'BRIEN & GERE ENGINEERS, INC.

729

Gauge Serial No.:

33275

Density Standard:

2728Date

### FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tosts were performed on the brown sarti and gravel supplied by Central Square Gravel (ATL Sample No. ST2318S-08), placed and compacted as utility pole excavation backful.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 698.

### IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
			Utility Polc E	xcavation (#2)				
1	10' North, 10' West of Southeast corner	-4.0`	6.8	133.9	134.8	6.1	127.1	95
2	15' North, 20' West of Southeast corner	-4.0	6.8	133.9	137.7	6.8	128.9	96
3	10' North, 10' East of Southwest corner	-4,0)	6.8	133.9	135.3	6.7	126.7	95
			Utility Pole E	xcavation (#5)				
1	5' East from West side	-9,1)	6.8	133.9	137.8	7.3	128.4	96
2	5' West from East side	-9.0	6.8	133.9	139.7	5.6	132.2	99
3	5' East from West side	-6.0	6.8	133.9	137.3	5.7	129.9	97
4	5' West from East side	-6 1)	6.8	133.9	136.9	5.9	129.3	97
5	5' East from West side	-41)	6.8	133.9	136.2	5.3	129.4	97
6	5' West from East side	-4 )	6.8	133.9	137.4	5.5	130.3	97
7	5' East from West side	-5.3"	6.8	133.9	135.9	6.8	127.2	95

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Maisture Content (%)	Field Dry Density (pef)	Compaction (%)
8	5' West from East side	-5.0	6.8	133.9	137.0	6.0	129.3	97
9	5' East from West side	-2.0	6.8	133.9	137.7	6.4	129.4	97
10	5' West from East side	-2.0'	6.8	133.9	136.5	6.6	128.1	96
11	5' East from West side	0.0	6.8	133.9	136.9	6.7	128.3	96
10	5' West from East side	0.0	6.8	133.9	139.3	6.9	130.3	97

### REMARKS

Test elevations are referenced from the top of excavation subgrade.

A representative of Royal Environmental was informed of all observations and test results prior to departure from the site.

REVIEWED AND NOTED
REVIEWED SOLELY FOR GENERAL
COMPLIANCE WITH CONTRACT
DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 10303 By BAK

	May -	Date:	9/22/-3	
Reviewed by:				

## ATLANTIC TESTING LABORATORIES, Limited

#### DAILY SOIL REPORT NUMBER ST2318S-19-09-03

CLIENT: PROJECT: Royal Environmental

SPEDES Treatment System IRM and

Former Drainage Swale IRM

Former Inland Fisher Guide Plant (Ciencral Motors)

Syracuse, New York

33275

Gauge Model No.: Troxler 3430

DATE: **September 16, 2003**  (Tuesday)

T. Bundle/D. Brazell ATL REPRESENTATIVE:

REVIEWED AND NOTED

REVIEWED SOLELY FOR GENERAL

COMPLIANCE WITH CONTRACT

CONTRACTOR:

Gauge Serial No.:

Royal Environmental

NUCLEAR DENSITY GAUGE DATA

**DOCUMENTS** 

Moisture Standard:

O'BRIEN & GERE ENGINEERS, INC.

Density Standard:

2728 Date

FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the in-situ material (ATL Sample No. ST2318S-01) placed and compacted as North swale construction backfill, north of treatment building.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 698.

#### IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
		North Sy	vale (Adjace	nt Treatment B	uilding)			
1	20' East, 15' North of Northeast corner of treatment building	0.0	10.8	124.2	132.8	10.4	120.2	97
2	25' West, 10' North of Northwest corner of treatment building	0.0	10.8	124.2	136.1	12.0	121.5	98
3	15' East, 12' North of Northwest corner of treatment building	0.0	10.8	124.2	130.9	10.7	118.3	95
4	20' west, 10' North of Northeast corner of treatment building	0.0	10.8	124.2	132.1	9.3	122.0	98
5	50' West of treatment building	0.0	10.8	124.2	132.5	9.2	121.3	98
6	100' West of treatment building	0.C	10.8	124.2	132.8	9.2	121.6	98
7	150' West of treatment building	O.C	10.8	124.2	128.2	9.1	117.5	95

#### REMARKS

Test elevations a	re referenced from the top of of Royal Environmental was	north swale subgrade. Informed of all observations and t	ะระ เดรนใช	prior to departure from the site.
Reviewed by:	-Cz		Date:	9/22/-

#### DAILY SCIL REPORT NUMBER ST2318S-20-09-03

CLIENT:

Royal Environmental

DATE:

Page 1 of 2

SPEDES Treatment System IRM and

September 17, 2003

(Wednesday)

PROJECT:

ATL REPRESENTATIVE: J. Radicy

Former Drainage Swale IRM Former Inland Fisher Guide Plant (Ceneral Motors)

**REVIEWED AND NOTED REVIEWED SOLELY FOR GENERAL** 

Syracuse, New York

**COMPLIANCE WITH CONTRACT** 

CONTRACTOR:

Royal Environmental

NUCLEAR DENSITY GAUGE DATA

DOCUMENTS

Gauge Model No.:

Troxler 3430

Moisture Standard:

O'BRIEN & GERE ENGINEERS, INC. 725

Gauge Serial No.:

33275

Density Standard:

2728<sub>De</sub>

#### FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the brown sand and gravel supplied by Central Square Gravel (ATL Sample No. ST2318S-08). placed and compacted as utility pole excavation backfill.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 698.

#### IN-PLACE FIELD DENSITY TEST RESULTS

			Optimum	Maximum	Field	Field	Field	
	·		Moisture	Dry	Wet	Moisture	Dry	
Test			Content	Density	Density	Content	Density	Compaction
No.	Test Location	Elevation .	(%)	(pcf)	(pcf)	(%)	(pcf)	(%)
		(1)	Utility Pole E	xcavation (#4)	)			
1	12' South and 12' East of Northwest corner	-9.(1	6.8	133.9	134.8	6.2	127.0	95
2	10' South and 15' Hast of Northwest corner	-8.0°	6.8	133.9	138.6	6.8	129.7	97
3	15' South and 15' Hast of Northwest corner	-7,0	6.8	133.9	135.4	6.6	126.3	95
4	5' South and 15' East of Northwest comer	-7.0	6.8	133.9	137.9	6.7	128.6	96
5	20' South and 10' East of Northwest corner	-6.0	6.8	133.9	137.4	6.8	128.2	96
6	8' South and 10' East of Northwest corner	-5.0	6.8	133.9	138.9	6.8	127.3	97
7	10' South and 20' East of Northwest corner	-5.3	6.8	133.9	134.2	6.3	126.1	95
8	15' South and 5' East of Northwest corner	-3.0	6.8	133.9	133.9	6.0	126.7	95
9	18' South and 15' Bast of Northwest corner	-1.0	6.8	133.9	136.4	6.7	126.9	96
10	20' South and 20' East of Northwest corner	0 ()	6.8	133.9	140.1	6.8	129.6	97
		1	Utility Polc E	xcavation (#10				
ΙĪ	5' South and 5' East of Northwest corner	-13 01	6.8	133.9	133.9	6.2	126.3	95
12	7' south and 10' East of Northwest corner	-12.01	6.8	133.9	139.5	5.8	130.0	97
13	10' South and 4' East of Northwest corner	-10.01	6.8	133.9	136.6	6.6	126.4	96

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
14	12' South and 10' East of Northwest corner	-8.01	6.8	133.9	133.4	6.0	126.0	95
15	7.5' South and 15' East of Northwest corner	-6.0	68	133.9	137.7	6.8	128.9	96
16	12.5' South and 10' East of Northwest corner	-4.01	6.8	133.9	140.0	6.9	130.6	97
17	12' South and 2' East of Northwest corner	-1.0'	6.8	133.9	133.6	6.1	126.1	95

#### **REMARKS**

Test elevations are referenced from the top of excivation subgrade.

Mr. Dave Woodruff representing Royal Environmental was informed of all observations and test results prior to departure from the site.

REVIEWED AND NOTED
REVIEWED SOLELY FOR GENERAL
COMPLIANCE WITH CONTRACT
DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 1013/03 By BAK

			1	į
Reviewed by:	Ma	Date:	9/22	(3)



### **PROJECT SUBMITTAL**

Project Name:

Former Landfill IRM

Submittal No.:

011

Subject:

Former Landfill IRM - Submittals for Technical Specification Section

02295, Part 1.3, A-F and I

Project No.:

60709-5

Date:

September 25, 2003

#### Attached you will find the following:

- Affidavit letter from Stace Backhoe & Trucking. The letter details the source and location of borrow material for the barrier protection layer (submittals 1.3 A and 1.3 B), and serves as the affidavit submittal (submittal 1.3 I).
- Memorandum from Royal listing the laboratories used for material testing (submittal 1.3 C).
- Results of the laboratory testing (submittal 1.3 E).
- Laboratory certification of the barrier protection material (submittal 1.3 F).

The barrier protection layer material was tested for Particle Size Analysis (ASTM D422) and Compaction Characteristics (ASTM D698) at Atlantic Testing Laboratories (submittal 1.3 D).

The remaining required submittals will be forwarded for approval once the barrier protection layer installation is accomplished and testing has been performed.

# ATLANTIC TESTING LABORATORIES, Limited

Syracuse 5866 State Route 31 Cicero, NY 13039 315/699-5281 (T) 315/699-3374 (F)

#### TRANSMITTAL

September 23, 2003

Mr. David Woodruff Royal Environmental, Inc. P.O. Box 483 Fayettiville, New York 13066-0483

Re:

Laboratory Testing
Former Inland Fisher Guide Plant

Syracuse, New York ATL File No. \$T2318

Enclosed is one copy of the following test report:

ST2318SL-06-09-03

Compaction Test Report

September 15, 2003

(Monday)

Please contact our office should you have any questions or if we may be of further service.

Sincercly,

ATLANTIC TESTING LABORATORIES, Limited

Thomas R. Bundle Division Manager

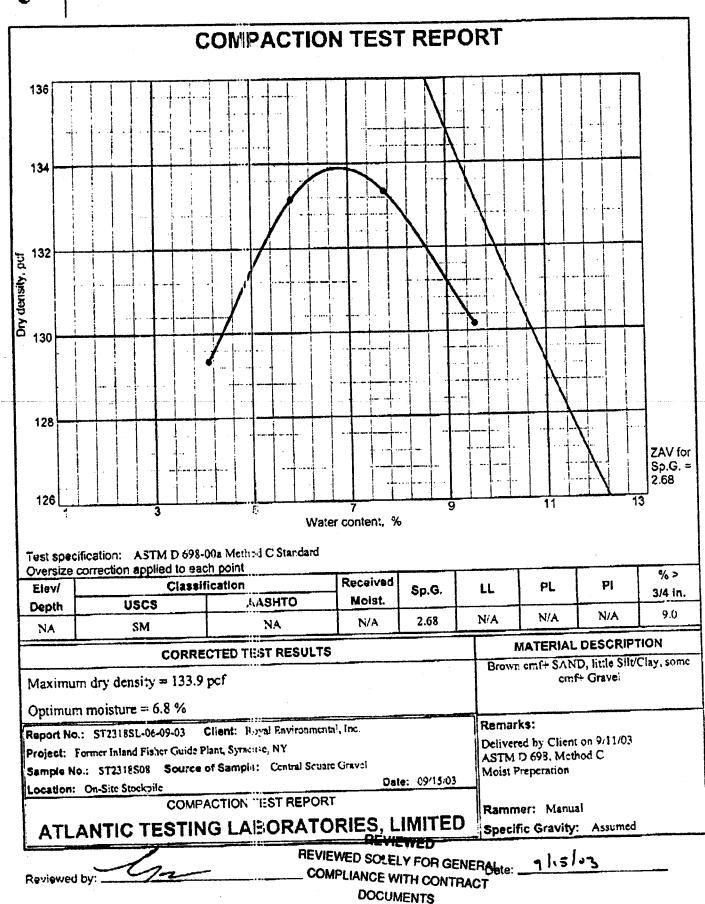
Syracuse Testing Division thundle@atlantictesting.com

TRB/taf Enclosure REVIEWED
REVIEWED SOLELY FOR GENERAL
COMPLIANCE WITH CONTRACT
DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 10/9/03 By 13





O'BRIEN & GERE ENGINEERS, INC.



# REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT COCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

PROJECT SUBMITTAL Date 10/12/04 By NMK

Project Name:

Former Landfill IRM

Submittal No.:

016

Subject:

Former Landfill IRM - Submittal for Technical Specification Section

02295 (Barrier Protection Layer)

Project No.:

60709-5

Date:

September 30, 2004

Attached you will find daily soil report (in-place field density testing) for tests performed on July 30, 2004 on barrier protection layer material placed on the slope on the northern portion of the landfill.

### ATLANTIC TESTING LABORATORIES, Limited



Syracuse 5866 State Route 31 Cicero, New York 13039 (315) 699-5281 (T) (315) 699-3374 (F)

#### TRANSMITTAL

August 2, 2004

Mr. David Woodruff Royal Environmental, Inc. P.O. Box 483 Fayetteville, New York 13066-0483

REVIEWED REVIEWED SOLELY FOR GENERAL **COMPLIANCE WITH CONTRACT DOCUMENTS** O'BRIEN & GERE ENGINEERS, INC.

Re: Soil Testing SPEDES Treatment System IRM and Former Drainage Swale IRM Former Inland Fisher Guide Plant (General Motors) Syracuse, New York ATL File No. ST2318

Enclosed is one copy of the following test report:

ST2318S-25-07-04

Daily Soil Report

July 30, 2004

(Friday)

Please contact our office should you have any questions or if we may be of further service.

Sincerely,

ATLANTIC TESTING LABORATORIES, Limited

David J. Wells

Division Manager

dwells@atlantictesting.com

DJW/tam

Enclosure

# ATLANTIC TESTING LABORATORIES, Limited

#### DAILY SOIL REPORT NUMBER ST2318S-25-07-04

CLIENT:

Royal Environmental

July 30, 2004 DATE:

(Friday)

PROJECT:

SPEDES Treatment System IRM and

ATL REPRESENTATIVE:

D. Devaul

Former Drainage Swale IRM

Former Inland Fisher Guide Plant (General Motors)

Syracuse, New York

CONTRACTOR: Royal Environmental

**NUCLEAR DENSITY GAUGE DATA** 

735 Moisture Standard:

Density Standard:

2778

Gauge Model No.: Gauge Serial No.:

Troxler 3440 22904

FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the Brown Silt, some Clay, some cmf+ Sand, trace mf Gravel (ATL Report No.: ST2318S-07), imported by Stace Backhoe & Trucking, Inc., placed and compacted as barrier protection material.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 698.

#### IN-PLACE FIELD DENSITY TEST RESULTS

Test			Optimum Moisture Content	Maximum Dry Density	Field Wet Density	Field Moisture Content	Field Dry Density (pcf)	Compaction (%)
No.	Test Location	Elevation	(%)	(pcf)	(pcf)	(%)		
1	29' N, 80' E of NW corner of new asphalt	0.0'	14.1	120.8	127.7	9.9	116.2	96
2	52' N, 135' E of Northwest corner of property	0.0'	14.1	120.8	129.5	10.2	117.5	97
3	26' N, 208' E of Northwest corner of property	0.0'	14.1	120.8	129.6	10.5	117.3	97

#### REMARKS

Test elevations are references from top of barrier protection material.

A representative of O'Brien & Gere was informed of all observations and test results prior to departure from the site.

Reviewed by: Date: 812/04	<u> </u>
---------------------------	----------

REVIEWED

**REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS** 

O'BRIEN & GERE ENGINEERS, INC.

Rip-rap characteristics



#### PROJECT SUBMITTAL

REVIEWED

REVIEWED SOLELY FOR GENERAL

**COMPLIANCE WITH CONTRACT** 

**DOCUMENTS** 

Former Landfill IRM O'BRIEN & GERE ENGINEERS, INC.

Project Name:

Submittal No.:

020

Subject:

Former Landfill IRM - Submittal for Technical Specification Section

02271 (Dumped Rip-rap)

Project No.:

60709-5

Date:

October 7, 2004

#### Attached you will find two items:

- 1. A letter from the rip-rap supplier (Hanson Aggregates New York) that certifies that the Fine Rip-rap material produced at their Jamesville, New York plant meets NYSDOT specifications. Note that mechanical analysis (sieve analysis) is not typically performed on rip-rap material.
- 2. An affidavit of clean material from Hanson Aggregates New York.



Henson Aggregates East Northeast Region PO. Box 513 Jamesvile, NY 13078 Tet: +315 469 5501 Fax +315 469 3133

October 6, 2004

REVIEWED
REVIEWED SOLELY FOR GENERAL
COMPLIANCE WITH CONTRACT
DOCUMENTS
O'BRIEN & GERE ENGINEERS, INC.

Royal Environmental I General Motors Drive Syracuse, New York 13206

Re: Stone Fill Items

Gentlemen:

As per your inquiry, all the Limestone Stone Fill items (Fine, Light, Medium, Heavy and Dry Rip Rap) produced at our Jamesville, NY plant meet the New York State Department of Transportation specifications for Item 620-2.02 Stone Filling. All these items have been accepted by and are currently being supplied to NYSDOT projects. The Jamesville plant is an approved NYSDOT source (#3-3RS) with a biennial test No. 03-AR-7S.

I certify the above information is correct to the best of my knowledge and if I can be of any help, please feel free to call me.

Sincerely,

Hanson Aggregates New York, Inc.

Thomas A. Jones Sales Manager



Hanson Aggregates East Northeast Region P.O. Box 513 Jamesville, NY 13078 Tel +315 469 5501

Fax +315 469 3133

REVIEWED
REVIEWED SOLELY FOR GENERAL
COMPLIANCE WITH CONTRACT
DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

October 8, 2004

Royal Environmental 1 General Motors Drive Syracuse, New York 13206

Re: Materials supplied from the Jamesville plant

To Whom it May Concern:

This is to certify that any materials supplied to Royal Environmental, Inc. from our Jamesville, New York quarry will be produced from limestone ledge rock. The material was not obtained from a known federal, state, local or private contaminated land site.

To the best of my knowledge all materials supplied will be clean and free from hazardous contaminates.

Sincerely,

Hanson Aggregates New York, Inc.

Thomas A. Jon

Thomas A. Jones

Sales Manager

Geotextile filter fabric CQC – Physical properties

Innovative Geotextiles

# Mirafi<sup>®</sup> 500X

for Interlocking Concrete Paver Stabilization

## Mirafi<sup>®</sup> 140N

for Subsurface Drainage

Property / Test Method	Unit	140N
MECHANICAL PROPERTIES	***************************************	
irab Tensile Strength STM D 4632		
Strength @ Ultimate	kN (lbs)	0.53 (120)
ongation @ Ultimate	%	50
lullen Burst Strength	kPa	1550
STM D 3786	(psi)	(225)
rapezoidal Tear Strength	kΝ	0.22
STM D 4355	(lbs)	(50)
uncture Strength	kΝ	0.30
STM D 4833	(lbs)	(65)
V Resistance after 500 hrs. STM D 4355	% strength	70
YDRAULIC PROPERTIES		
pparent Opening Size (AOS)	US Sieve	70
STM D 4751	mm	0.212
<b>ermittivity</b> STM D 4491	sec <sup>-1</sup>	1.8
ilow Rate STM D 4491	l/min/m² (gal/min/ft²)	5500 (135)
Packaging		
Roll Width	m(ft)	3.8 (12.5)
		4.5 (15.0)
oll Length	m(ft)	110 (360)
st. Gross Weight	kg(lbs)	74 (164) 89 (197)
vea	m²(yd²)	418 (500) 502(600)

Property / Test Method	Unit	500X
MECHANICAL PROPERTIES		•
Grab Tensile Strength ASTM D 4632		
Strength @ Ultimate	kN (lbs)	0.90 (200)
Elongation @ Ultimate	% MD/ CD	15/ 10
Mullen Burst Strength	kPa	2756 1900
ASTM D 3786	(psi)	(400) <b>- (275)</b>
Trapezoidal Tear Strength	kΝ	0.33
ASTM D 4355	(lbs)	(75)
Puncture Strength	kN	0.40 - SAM
ASTM D 4833	(lbs)	(90) - "
UV Resistance after 500 hrs. ASTM D 4355	% strength	<b>70</b> .
HYDRAULIC PROPERTIES		
Apparent Opening Size (AOS)	US Sieve	50
ASTM D 4751	mm	0.30
Permittivity ASTM D 4491	SeC <sup>-1</sup>	0.05
Packaging		· · · · · · · · · · · · · · · · · · ·
Roll Width	m(ft)	3.8 (12.5)
	•	5.3 (17.5)
Roll Length	m(ft)	132 (432)
•		94.2 (309)
Est. Gross Weight	kg(lbs)	95 (210)
Area	m²(yd²)	502 (600)

www.mirafi.com

#### WARRANTY

MIRAFIP Construction Products assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. MIRAFIP disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without imitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.

PDS.500x140n.0304

#### CORPORATE OFFICE

365 South Holland Drive • Pendergrass, GA 30567 (888) 795-0808 • (706) 693-2226 • Fax (706) 693-4400



Geotextile stabilization fabric CQC – Physical properties

Innovative Geotextiles

# Mirafi<sup>®</sup> 500X

for Interlocking Concrete
Paver Stabilization

## Mirafi<sup>®</sup> 140N

for Subsurface Drainage

Property / Test Method	Unit	140N
MECHANICAL PROPERTIES		····
Grab Tensile Strength ASTM D 4632		
Strength @ Ultimate	kN (lbs)	0.53 (120)
Elongation @ Ultimate	%	50
Mullen Burst Strength	kPa	1550
ASTM D 3786	(psi)	(225)
Trapezoidal Tear Strength	kN	0.22
ASTM D 4355	(lbs)	(50)
Puncture Strength	kN	0.30
ASTM D 4833	(lbs)	(65)
<b>UV Resistance after 500 hrs.</b> ASTM D 4355	% strength	70
HYDRAULIC PROPERTIES		
Apparent Opening Size (AOS)	US Sieve	70
ASTM D 4751	mm	0.212
Permittivity ASTM D 4491	sec-1	1.8
Flow Rate ASTM D 4491	l/min/m² (gal/min/ft²)	5500 (135)
Packaging		
Roil Width	m(ft)	3.8 (12.5)
		4.5 (15.0)
Roll Length	m(ft)	110 (360)
Est. Gross Weight	kg(lbs)	74 (164) 89 (197)
Area	m²(yd²)	418 (500) 502(600)

Property / Test Method	Unit	500X
MECHANICAL PROPERTIES		
<b>Grab Tensile Strength</b> ASTM D 4632		
Strength @ Ultimate	kN (lbs)	0.90 (200)
Elongation @ Ultimate	% MD/ CD	15/10
Mullen Burst Strength	kPa	2756 1900
ASTM D 3786	(psi)	(400) <b>- (275)</b>
Trapezoidal Tear Strength	₩.	0.33
ASTM D 4355	(ibs)	(75)
Puncture Strength	kN	0.40 - SA
ASTM D 4833	(lbs)	(90) -
UV Resistance after 500 hrs. ASTM D 4355	% strength	70.
HYDRAULIC PROPERTIES	, , , , , , , , , , , , , , , , , , , ,	
Apparent Opening Size (AOS)	US Sieve	50
ASTM D 4751	mm	0.30
Permittivity ASTM D 4491	Sec.1	0.05
Packaging		
Roll Width	m(ft)	3.8 (12.5)
		5.3 (17.5)
Roll Length	m(ft)	132 (432)
		94.2 (309)
Est. Gross Weight	kg(lbs)	95 (210)
Area	m²(yď²)	502 (600)

www.mirafi.com

#### WARRANTY

MIRAF® Construction Products assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. MIRAF® disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.

PDS.500x140n.0304

#### CORPORATE OFFICE

365 South Holland Drive • Pendergrass, GA 30567 (888) 795-0808 • (706) 693-2226 • Fax (706) 693-4400





# Typar<sup>®</sup> SF

#### REVIEWED

REVIEWED SCLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 2/17/05 By WUK

											$\nabla$	•			
Property	Skijasni	UNIT	AMI)	SF27	3.30	SF37	970)	SF44	45.3	SF56	N. S.	SF77	12.7	SF111	
Descriptive Properties								,							
Area Weight	20013.64	g/m²	3 4	. 90 °		125	14 N	150		190	in	260		375	
Thickness under 2kN/m²	111.26	mm		0.38		0.43	48.6	0.46	100	0.54		0.65	16	0.85	
Thickness under 200kN/m²		mm	13.45	0.31		0.37		0.40	(V.)	0.48		0.59		0.79	
Mechanical Properties															1
Tensile Strength*		kN/m		5.1		8.0		10.0		12.8		20.0		29.0	
Elongation*	35000 BB	%		45	3343	60	( ( ( )	60		65		70	> /n:	70	d
Strength at 5% elongation*	A STATE OF THE STA	kN/m		2.9		3.5	Okali	4.2		-5.7		8.1		12.0	٠,
Energy Absorption*		kN/m		2		4.		5		7		11		- 15	
Grab Strength	North Control	N		430		700	-116	850		1100	2011	1680		2410	
Puncture CBR**		N		800	1003	1180	13300	1550		1970		2800		3950	
Dyn. Cone Puncture		mm	y (this	48		35		28		24	9!!	25	202	15	
Burst Strength	a Carl Dalla	kPa		700		1050	150	1260		1625		2250	200	3600	
Tear Strength		N		190	4.6	300	1.0	395		. 460		475	101	640	
Puncture "US Rod"		N	8 (8)	160		225		270		350		475		700	
Hydraulic Properties															•
Opening Size O <sub>50 Wet</sub>	\$ 14 2.55	μm		180		135	S 20	105		80		60		55	
Opening Size O <sub>ss Dry</sub>	A MINTER	μm		350		220	i alu i	200		100		<75	de	<75	
		US Sieve	167	40	(1)	70		70	24	140		>200		>200	
Permittivity	artrologi	1/s		2.0		1.20	10.00	1.10	1177	0.65		0.35		0.20	
Flow Rate at 50mm WH	3517/122.01	gal/ft min		140	8.0	85	: li	80		45		27		10	
Permeability at 20 kN/m²		10 <sup>4</sup> m/s		3.6		2.4		2.1		1.4		1.0		0.7	
Permeability at 200 kN/m²	digresses.	10 <sup>4</sup> m/s		2.5		1.7		1.5		1.0		0.7	l l	0.5	

<sup>\*</sup> Equivalent to EN ISO 10319 and BS 6906-1

<sup>\*\*</sup> Equivalent to DIN 54307 and BS 6906-4

|--|

Natural UV light	tion (1255 for a construction) for each property of
· · · · · · · · · · · · · · · · · · ·	sedings of a proceedings to gentle keye is.
	hali bilo gi lei e si kos ezekiniking ezeki
:	Yesti kacamata karajir kacamatan 1946. Katawa make di kabata
Natural occuring acides and alkali	kejneed
Lactic acid (pH 2.4) 15 days at 50 °C	trincorr.
Natrium Carbonate (pH 11.6) 15 days at 50 °C	France, co.
Calcium Hydroxyde Ca (OH) <sub>2</sub> (pH 12.5) 10g/l, 15 days at 25 °C	Brighterica

#### Product description

Polymer	ores disperses 111 ores disco
Specific gravity	
Melting point	
Type of fiber	
Fiber diameter	(1)
Fiber bonding	The particular and the same of

The values correspond to average results obtained in our laboratories and outside institutes and are indicative. The right is reserved to make changes at any time without notice.

Packaging Data						
Туре	width m	length m	area m²	diameter cm	weight kg	rulls per 20' FCL
SF 20	2.25	250	562	28	72	•
	4.50	200	900	38	154	57
	5.20	400	2080	32	36	40
SF27	2.10	100	210	24	24	•
	4.50	150	675	28	72	56
	5.20	150	780	28	83	55
SF32	2.00	150	300	29	38	•
	4.50	100	450	25	61	66
•	4.50	150	675	29	86	56
	5.20	150	780 . ~	29	99	55
SF 37	2.10	150	315	29	45	
<b>.</b>	3.50	150	525	29	74	•
	4.50	100	450	27	68	66
	4.50	150	675	29	97	56
	5.20	150	780	29	111	55
SF40	2.10	150 <sub>.</sub> †F	315	31	48	· •
	3.50	150 <sup>°</sup>	<b>525</b> .	31	80	•
	4.50	100	450	. 27	72	66
	4.50	150	675	31	103	56
	5.20	150	780	31	119	55
SF44	4.50	150	675	31	111	56
	5.20	150	780	31	130	56
SF49	4.50	100	450	26	86	56
	5.20	100	520	26	99	55
SF56	4.50	100	450	29	97	56
	5.20	100	520	29	112	55
SF65	4.50	100	450	30	110	56
	5.20	100	520	30	127	55
SF77	4.50	100	450	32	128	56
	5.20	100	520	32	148	55
SF94	4.50	100	450	35	156	56
	5.20	100	520	35	180	55
SF111	4.50	100	450	37	180	56
<b></b>						

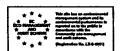
400m long rolls available for major projects. For further information, please contact DuPont.

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37



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This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, DuPont makes no warranties and assumes no liabilities in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

REVIEWED

**DuPont Nonwovens** L-2984 Luxembourg Tel: +352 3666 5779 Fax: +352 3666 5021 REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT **DOCUMENTS** 

O'BRIEN & GERE ENGINEERS, INC.



**DuPont Nonwovens** 

206

Fertilizer and seed information

## PROJECT SUBMITTAL

Project Name:

Former Landfill IRM

Submittal No.:

015

Subject:

Former Landfill IRM - Submittal for Technical Specification Section

02981 / Special Provision SP-26

Project No.:

60709-5

Date:

September 10, 2004

Attached you will find the following submittals for Topsoil and Seeding:

Laboratory analytical testing data on proposed topsoil material;

Letter dated October 11, 2002, from Susan Benjamin (NYSDEC) to James Hartnett (GM) - detailing topsoil source approval;

Affidavit from Owner of the topsoil source;

Documentation regarding seed vendor and warranty of seed species;

Fertilizer and mulch vendor's certification; and,

Hydroseeding application rate information.

Royal proposes to apply the fertilizer, seed and mulch through hydroseeding at the application rates specified in Section 02981.



7280 Ceswell Street, Hancock Air Park, North Syracuse, NY 13212 (315) 458-8033, FAX (315) 458-0249, (800) 842-4667

#### REVIEWED

REVIEWED SOLELY FOR GENERAL

COMPLIANCE WITH CONTRACT DOCUMENTS

PROJECT #. RECEIVED:

202413 09/26/2002 Certified in:
"• Connect cut
"• Delawere
Heryland

Rochester, NY 14615

ROYAL ENVIRONMENTAL

PO Box 15719

ATTN: Mr. David Woodruff

O'BRIEN & GERE ENGINEERS, INC.

Site Address:

FORMER SWAIL IRM/SPDES TREATMENT SYSTEM IRM

CLIENT JOB NUMBER:

9509

TEST PERFORMED	RESULTS	UNITS	DATE/TIME PERFORMED	METHOD NUMBER	PERFORMED BY
SAMPLE #: 330681 CLENT SAMPLEID:	FELLOWS P	IT		DATE SAMPLED:	09/26/02
HYDROGEN ION PH (SOLID)	7.85		10/04/02	SW486 9045C	CSA
MERCURY	<0.049	MG/KG DRY WT.	10/01/02	EPA 7471A	NSH
METALS (TAL)				EPA 6010	
aluminum	8090	MG/KG DRY WT.	10/02/02	EPA 6010	NSH
antimony	<12.2	MG/KG DRY WT.		EPA 6010	NSH
arsenic	<12.2	MG/KG DRY WT.		EPA 6010	NSH
benum	109	MG/KG DRY WT.		EPA 6010	NSH
beryllium	0.28	MG/KG DRY WT.		EPA 6010	NSH
cadmium	0.43	MG/KG DRY WT.	10/02/02	EPA 6010	NSH
calcium	67800	MG/KG DRY WT.		EPA 6010	NSH
chromium	10.9	MG/KG DRY WT.		EPA 6010	NSH
cobalt	5.3	MG/KG DRY WT.	10/02/02	EPA 6010	NSH
copper	14.8	MG/KG DRY WT.		EPA 6010	NSH
lron	13900	MG/KG DRY WT.	10/02/02	EPA 6010	NSH.
lead	31.8	MG/KG DRY WT.	10/02/02	EPA 6010	NSH
magnesium	10500	MG/KG DRY WT.	10/02/02	EPA 6010	NSH
manganese	382	MG/KG DRY WT.	10/02/C2	EPA 6010	NSH.
nickel	12.5	MG/KG DRY WT.	10/02/02	EPA 6010	NSH
potassium	1890	MG/KG DRY WT.	10/02/02	EPA 60:0	NSH
selenium	<12.2	MG/KG DRY WT.	10/02/02	EPA 6010	NSH
ailver	1.1	MG/KG DRY WT.	10/02/02	EPA 6010	NSH
sodium	189	MG/KG DRY WT.	10/02/02	EPA 6010	NSH
thallium	<30.5	MG/KG DRY WT.	10/02/02	EPA 6010	NSH
vanadium	28.8	MG/KG DRY WT.	10/02/02	EPA 6010	NSH
zinc	50.2	MG/KG DRY WT.	10/02/02	EPA 6010	NSH
Metals Digestion			10/01/02	EPA 3050B	BDR
Semi-Volatile - 8270 A/B/N				EPA 8270C	
1,2,4-trichlorobenzene	<0.30	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
1,2-dichlorobenzene	<0.30	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
1,2-dlphenylhydrazine	<0.30	MG/KG DRY WT.	10/02/02	EPA \$270C	SWE

Page 1 of 6

Your Full-Service Analytical Laboratory

ROYAL ENVIRONMENTAL PO Box 15719

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DOCUMENTS

PROJECT #: RECEIVED:

202413 09/26/2002

Rochester, NY 14615 ATTN: Mr. David Woodruff

O'BRIEN & GERE ENGINEERS, INC.

Site Address:

FORMER SWAIL IRM/SPDES TREATMENT SYSTEM IRM

CLIENT JOB NUMBER:

9509

TEST PERFORMED	RESULTS	UNITS	DATE/TIME PERFORMED	METHOD NUMBER	PERFORMED BY
SAMPLE #: 330081 CLENT SAMPLE ID:	FELLOWS P	т		DATE SAMPLED:	09/26/02
Semi-Volutile - 8270 A/B/N				EPA 8270C	
bis(2-ethylhexyl) phthalate	<0.30	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
butyl benzyl phthalate	<0.30	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
chrysene	0.41	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
dibenz(a,h)anthracene	0.20	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
dibenzofuran	<0.30	MG/KG DRY WT.		EPA 8270C	SWE
diethyl phthalate	< 0.30	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
dimethyl phthalate	<0.30	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
di-n-butyi phthalaie	<0.30	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
di-n-octyl phthalate	<0.30	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
fluoranthene	0.83	MG/KG DRY WT.	10/02/02	EPA \$270C	SWE
fluorene	<0.08	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
hexachlorobenzene	<0.30	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
hexachlorobutadiene	<0.30	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
hexachiorocyclopentadiene	<0.30	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
hexachloroethane	<0.30	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
indeno(1,2.3-cd)pyrene	0.33	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
isophorone	< 0.30	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
naphthalene	<0.0€	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
nitrobenzene	<0.30	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
n-nitrosodimethylamine	<0.30	MG/KG DRY WT.		EPA 8270C	SWE
n-nitrosodiphenylamine	<0.30	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
n-nitrosodipropylamina	<0.30	MG/KG DRY WT.		EPA 8270C	SWE
pentachlorophenol	<0.30	MG/KG DRY WT.		EPA 8270C	SWE
phenanthrene	0.46	MG/KG DRY WT.	10/02/02	EPA 8270C	SWE
phenol	<0.30	MG/KG DRY WT.		EPA 8270C	SWE
pyrene	0.77	MG/KG DRY WT.		EPA 8270C	SWE
pyridine	<0.30	MG/KG DRY WT.		EP∧ 8270C	SWE
Solid Soxhlet Extraction			10/01/02	EPA 3540C	MNE
Somi-Volatile - PCB'S			75.51,52	EPA 8082	
arodor 1016	<0.60	MG/KG DRY WT.	. 09/28/02	EPA 8082	SWE
aroclor 1221	<0.60	MG/KG DRY WT.		EPA 8082	SWE
aroclor 1232	<0.60	MG/KG DRY WT.		EPA 8082	SWE
aroclor 1242	<0.60	MG/KG DRY WT.		EPA 8082	SWE
aroclor 1248	<0.60	MG/KG DRY WT.		EPA 8082	SWE
arocior 1254	<0.60	MG/KG DRY WT.		EPA 8082	SWE
aroclor 1260	<0.60	MG/KG DRY WT.		EYA 8082	SWE
Solid Soxhlet Extraction	~	FIGHT DITE WE	10/01/02	EPA 3540C	MNE
SOLIDS, TOTAL	82	PERCENT	09/27/02	SM18 2540B	CSA
TOTAL ORGANICS	8	PERCENT	10/03/02	SM 18 2540E	CSA



Page 3 of 6

ROYAL ENVIRONMENTAL PO Box 15719

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COMPLIANCE WITH CONTRACT

**DOCUMENTS** 

PROJECT #: RECEIVED:

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Rochester, NY 14615 ATTN: Mr. David Woodruff

O'BRIEN & GERE ENGINEERS, INC.

Date 9/21/04 By WMC

Site Address:

FORMER SWAIL IRM/SPDES TREATMENT SYSTEM IRM

CLIENT JOB NUMBER.

9509

TEST PERFORMED	)	RESULTS	UNITS	DATE/TIME PERFORMED	METHOD NUMBER	PERFORMED BY
SAMPLE #: 330081	CLIENT SAMPLEID:	FELLOWS P	IT		DATE SAMPLED:	09/26/02
TOTAL ORGANICS		8	PERCENT	10/03/02	SM 18 2540E	CSA
Volatile - 8260					EPA 8260B	
1,1,1,2-tetrac	hloroethane	<0.10	MG/KG DRY WT.	10/03/02	EPA 8260B	SWE
1.1.1-trichlor		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
1.1.2.2-tetrac	chloroethane	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
1,1,2-trichlon	enshane	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
1,1-dichloroe		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
1,1-dichloroe	thene	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
1,1-dichiorop	ropene	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
1,2,3-trichlon	•	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
1,2,3-trichlor		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
1,2,4-trichlor	- •	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
1,2,4-trimeth		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
	3-chloropropane	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
1,2-dibromoe	•	<0.10			EPA 8260B	SWE
1,2-dichloreb	enzene	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
1,2-dichloroe	ithane	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
1,2-dichlorop		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
1,3,5-trimeth		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
1,3-dichloreb		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
1,3-dichlorop		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
7.4-dichlorob	•	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
2,2-dichlorop	ropane	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
2-butanona	444.14	<0.50	MG/KG DRY WT.		EPA 8260B	SWE
2-chlorotolue	ne	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
2-hexanone		<0.50	MG/KG DRY WT.		EPA 8260B	SWE
4-chlorotolus	na	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
4-isopropylto	luene	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
4-methyl-2-p		<0.50	MG/KG DRY WT.		EPA 8260B	SWE
acetone		<0.50	MG/KG DRY WT.		EPA 8260B	SWE
acrylonitale		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
benzene		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
bromobenzer	ne	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
bromochloro	methane	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
bromodichion	cmethane	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
bromoform		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
bromometha	ne	<0.50	MG/KG DRY WT.		EPA 8260B	SWE
carbon disulf		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
carbon tetrac		<0.10	MG/KG DRY WT.		EPA 82606	SWE
chlorobenzer		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
chloroethane	-	<0.50	MG/KG DRY WT.		EPA 8260B	SV/E



ROYAL ENVIRONMENTAL PO Box 15719

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PROJECT #: RECEIVED:

202413 09/26/2002

Rochester, NY 14615 ATTN: Mr. David Woodruff REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

Site Address:

O'BRIEN & GERE ENGINEERS, INC.

FORMER SWAIL IRM/SPDES TREATMENT SYSTEM IRM

CLIENT JOB NUMBER:

9509

Date 9/2/04 By 1//VI

TEST PERFORMED	)	RESULTS	UNITS	DATE/TIME PERFORMED	METHOD NUMBER	PERFORMEI BY
SAMPLE #: 330081	CLENT SAMPLE ID:	FELLOWS P	ıτ	**************************************	DATE SAMPLED:	09/26/02
Voistile - 8260					EPA 8260B	
chloreform		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
chlorometha		<0.50	MG/KG DRY WT.		EPA 8260B	SWE
cis-1,2-dichle	proetnene	<0.10	MG/KG DRY WT.	10/03/02	EPA 8260B	SWE
cis-1,3-dichid	• •	<0.05	MG/KG DRY WT.	10/03/02	EPA 8260B	SWE
dibromochlo		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
dibromomett	iane	<0.10	MG/KG DRY WT.	10/03/02	EPA 8260B	SWE
dichlorodiflu	promethane	<0.50	MG/KG DRY WT	10/03/02	EPA 8260B	SWE
ethylbenzen	•	<0.10	MG/KG DRY WT.	10/03/02	EPA 8260B	SWE
hexachlorob	utadiene	<0.10	MG/KG DRY WT.	10/03/02	EPA \$260B	SWE
iodomethane	)	0.36	MG/KG DRY WT.	10/03/02	EPA 8260B	SWE
Isopropylber	izêne	<0.10	MG/KG DRY WT.	10/03/02	EPA 8260B	SWE
methylene c	hloride	0.43	MG/KG DRY WT.	10/03/02	FPA 8260B	SWE
mtbe		<0.10	MG/KG DRY WT.	10/03/02	EPA 8260B	SWE
naphthalene		<0.10	MG/KG DRY WT.	10/03/02	EPA 8260B	SWE
n-butylbenzo	ene	<0.10	MG/KG DRY WT.	10/03/02	EPA \$260B	SWE
n-propylben:	zene	<0.10	MG/KG DRY WT.	10/03/02	EPA 8260B	SWE
sec-butylber		<0.10	MG/KG DRY WT.	10/03/02	EPA 8260B	SWE
styrene		<0.10	MG/KG DRY WY		EPA 8260B	SWE
tert-butylben	zene	<0.10	MG/KG DRY WT.	10/03/02	EPA 8260B	SWE
tetrachloroel		<0.10	MG/KG DRY WT.	10/03/02	EPA 8260B	SWE
toluene		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
trans-1,2-did	hioroethene	<0.10	MG/KG DRY WT.		EPA 8260B	SWE
	hloropropene	<0.05	MG/KG DRY WT.		EPA 8260B	SWE
	hloro-2-butene	<0.10	MG/KG DRY WT.	10/03/02	EPA 8260B	SWE
trichloroethe		<0.10	MG/KG DRY WT.		EPA 8260B	SWE
trichlorofluor	omethane	<0.10	MG/KG DRY WT		EPA 8260B	SWE
vinyl acetale	******	<0.50	MG/KG DRY WT.		EPA 8260B	SWE
vinyl chlorid		<0.20	MG/KG DRY WT		EPA 8260B	SWE
xylene, m+p		<0.10	MG/KG DRY WT		EPA 8260B	SWE
xylene, o		<0.10	MG/KG DRY WT		EPA 8260B	SWE
-	on for Volatiles	-9.10		10/02/02	EPA 5035	SWE

ROYAL ENVIRONMENTAL

PO Box 15719

REVIEWED
REVIEWED SOLELY FOR GENERAL

PROJECT#: RECEIVED: 202413 09/26/2002

Rochester, NY 14615 ATTN: Mr. David Woodruff COMPLIANCE WITH CONTRACT

DOCUMENTS

Site Address:

FORMER SWAIL IRM/SPDES

O'BRIEN & GERE ENGINEERS, INC.

TREATMENT SYSTEM IRM

)ate 9/21/04 By NMK

CLIENT JOB NUMBER:

**TEST PERFORMED** 

9509

RESULTS UNITS

DATE/TIME PERFORMED METHOD NUMBER PERFORMED

BY

Wendy J. Uniberger Laboratory Director 10/04/2002 Print Date

All tests performed under NYS ELAP Laboratory Certification # 11375 unless otherwise stated.

# New York State Department of Environmental Conservation Division of Environmental Remediation

Bureau of Central Remedial Action, 12<sup>th</sup> Floor 825 Broadway, Albany, New York \$2233-7016 Phone: (518) 402-9768 • FAX: (518) 402-9020

Website: www.dec.state.ny.us

James Hartnett

Rte 37, Box 460

General Motors Corporation

Remediation Project Office

Massena, NY 13662-0460



October 11, 2002

REVIEWED

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT

**DOCUMENTS** 

O'BRIEN & GERE ENGINEERS, INC.

Date 9 204

NMK

Re:

General Motors - Former Inland Fisher Guide Facility/Ley Creek Deferred Media Site Administrative Order on Consent Index #D-7-0001-97-06

Interim Remedial Measure - SPDES Treatment System - Off-site topsoil

Dear Mr. Hartnett:

The information contained in your letter of October 9, 2002 regarding topsoil for the above IRM has been reviewed by the New York State Department of Environmental Conservation.

Based upon the analyses and results of the contaminant levels in the top soil, the off-site topsoil is approved for use for the releation pond. However, additional sampling and analyses will be necessary if there is a change in material composition, physical properties, or source location. Although the contaminant levels are acceptable, the topsoil must still meet all other criteria in accordance with the IRM work plan, such as the ability to sustain vegetative growth.

If you have any questions concerning this letter, please call me at 518-402-9767.

Sincerely,

Susan Benjamin Project Manager

cc;

L. Fitzpatrick

B. Koguit

C. Leary

### DOUG FELLOWS TRUCKING

3001 Picasant Valley Road
Marcellos, NY 13108
(315)673-2952 or (315)729-2622

REVIEWED

October 9, 2002

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

9/21/04 By NMK

Re: Borrow Material Affidevit

To Whom It May Concern:

I, Douglas P. Fellows, contract with the owners of the properties known as Smith Hollow Pond at 3045 Smith Road, Marietta, NY 13110, and Fellows Tracking / Heer's gravel pit at Tanner Road, Nedrow, 13120.

To the best of my knowledge, these sites of the source materials for the topsoil to be provided to Royal Esvironmental for use at the Former Inland Fisher Guide Plant (GM), SPDES Treatment System Project, were never used as a dump site for chemical, toxic, hazardous, or radioactive materials and they are not now nor ever have been listed as suspected depositories for chemical, toxic, hazardous, or radioactive materials by any federal, state, or other governmental agency, department, or bureau.

Signed

Princed Dromlas P Fellows

Date 10-9-02

SPECIALIZING IN GRASS SEED MIXTURES - FERTILIZERS - EROSION CONTROL PRODUCTS - PROFILE CONWED FIBERS DISTRIBUTOR - HYDROSEEDING MATERIALS

7880 GATES ROAD, BALDWINSVILLE, NEW YORK 13027 TELEPHONE: 315 638-0610 FAX: 315 638-0071

PROUDLY PROVIDING ALL YOUR SEEDING NEEDS SINCE 1958

www.memitseed.com

September 10, 2004

Millers Landscaping LLC 6741 Happy Valley Rd. Verona, NY 13478

REVIEWED REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS O'BRIEN & GERE ENGINEERS, INC.

To whom it may concern:

This is to verify the seed mixture that Merritt Seed Company will supply to Millers Landscaping for use on the GM - Syracuse Project, conforms to the following specifications:

Percent in <u>Mix</u>	Variety	Purity	Germ
50.00%	Kentucky Bluegrass Creeping Red Fescue Manhattan III Perennial Ryegrass	98.00%	85%
30.00%		98.00%	85%
20.00%		98.00%	90%

The seed will be packaged in 40 pound sealed bags with labels bearing the Lot Number: MB4263, the Job: GM - Syracuse, and the percentages of the mix for purity, germination, crop seed, weed seed content, and inert material.

I certify that the above information is correct to the best of my knowledge.

Stanley M. Boots

Owner

7880 GATES ROAD, BALDWINSVILLE, NEW YORK 13027 TELEPHONE: 315 638-0610 FAX: 315 638-0071 PROUDLY PROVIDING ALL YOUR SEEDING NEEDS SINCE 1958

www.merrittsced.com

September 10, 2004

Millers Landscaping LLC 6741 Happy Valley Rd. Verona, NY 13478

REVIEWED REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS C'BRIEN & GERE ENGINEERS, INC.

To whom it may concern:

This is to verify the fertilizer that Merritt Seed Company will supply to Millers Landscaping for use on the GM - Syracuse Project is as follows:

19-19-19

The manufacturer guarantees 19 pounds of available Nitrogen per CWT which is derived from Diammonium Phosphate and and/or Ureas and/or Sulfate of Ammonia.

The manufacturer guarantees 19 pounds of available P2O5 per CWT, which is derived from Diammonium Phosphate and/or Monammonium Phosphate and/or Superphosphate.

The manufacturer guarantees 19 pounds of available K2O per CWT, which is derived from muriate of Potash.

The product is packaged by the manufacturer in 50-pound bags bearing the 19-19-19 marking.

I certify that the above information is correct to the best of my knowledge.

Stanley M. Boots

Owner

SPECIALIZING IN GRASS SEED MIXTURES - FERTILIZERS - EROSION CONTROL PRODUCTS - PROFILE CONWED FIBERS DISTRIBUTOR - HYDROSEEDING MATERIALS

7880 GATES ROAD, BALDWINSVILLE, NEW YORK 13027

TELEPHONE: 315 638-0810 FAX: 315 638-0071

PROUDLY PROVIDING ALL YOUR SEEDING NEEDS SINCE 1958

www.memittseed.com

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**DOCUMENTS** 

To whom it may concern:

C'BRIEN & GERE ENGINEERS, INC.

REF: CONWED FIBERS 2000 CERTIFICATION Date 9/21/04

TO: STATE OR FED AGENCY, PROJECT OWNER, ETC

The manufacturer, PROFILE Products LLC, 750 Lake Cook Road, Suite 440, Buffalo Grove, Il 60089, CERTIFIES THAT CONWED FIBERS 2000 COMPLIES WITH THE FOLLOWING PRODUCT SPECIFICATIONS:

## PHYSICAL PROPERTIES

MOISTURE CONTENT ORGANIC CONTENT ASH CONTENT GUAR GUM TACKIFIER pH RANGE C FACTOR 2.5:1 SLOPE WATER HOLDING CAPACITY	12% +-3 96.2% +8 .8% +8 3.0% MIN 4.8 +-1 .22 (2000 LBS / AC) 1350% MIN
--	--

### **PACKAGING**

NET WEIGHT 50 LB BALE, 40 BALES PER PALLET

The wood fiber is packaged in 50 pound units displaying the manufacturer's name and address, net weight, and customer service telephone.

I certify that the above information is correct to the best of my knowledge.

Owner

**FINN** 







#### **MEMORANDUM**

To:

Mr. Nathyn Knipe, O'Brien & Gere Engineers

From: Paul Micciche

CC:

David Woodruff

Date: September 17, 2004

Re:

Addendum to Project Submittal No. 15 - Former Landfill IRM, FIFG (GM)

Syracuse, New York

In accordance with your request, the following text clarifies Royal's intent for application of hydroseed and provides an application rate.

In the Project Submittal of September 10, 2004, Royal stated that, "Royal proposes to apply the fertilizer, seed and mulch through hydroseeding at the application rate specified in Section 02981." As a note of clarification, Royal will apply the Conwed Fibers 2000 product at a rate of 1,500 to 2,000 pounds per acre.

Asphalt testing results and specification information



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COMPLIANCE WITH CONTRACT
DOCUMENTS
O'BRIEN & GERE ENGINEERS, INC.
Date 11 18 03 By BAK

# FILE COPY

### PROJECT SUBMITTAL

Project Name:

Former Landfill IRM

Submittal No.:

013

Subject:

Former Landfill IRM - Submittal for Special Provision 18

Project No.:

60709-5

Date:

November 13, 2003

As per SP-18, A. 4, the attached NYSDOT certification information for Northern Bituminous Mix, Inc. (asphalt vendor for the project) is herein submitted. Attached you will find:

- Letter dated May 198, 2003, from NYSDOT with Hot Mix Asphalt Plant Approval.
- NYSDOT Job Mix Formulas (2) for Type 1 Base (Dense) and type 6F Top Course asphalt materials.



# STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION 333 EAST WASHINGTON STREET SYRACUSE, N.Y. 13202

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DOCUMENTS
O'BRIEN & GERE ENGINEERS, INC.
Date 11 18 03 By BAK



JON P. EDINGER, P.E. REGIONAL DIRECTOR

May 19, 2003

JOSEPH H.BOARDMAN
COMMISSIONER

Mr. Thomas Venezia, Jr. Northern Bituminous Mix, Inc. 6 Silk Road Fulton, NY 13069

Dear Mr. Venezia:

RE: 2003 HOT MIX ASPHALT PLANT APPROVAL FAC. NO. #10063

We have completed the inspection of the above referenced Hot Mix Asphalt Plant. It is approved for use on New York State Department of Transportation projects during the 2003 construction season.

When producing material for Department, the producer is required to notify the Regional Materials office by 3:00 p.m. the business day before anticipated production. The notification should be made by completing a copy of the enclosed form and faxing it to this office (315) 469-1614.

Certifications with printed tickets shall be transmitted to the Regional Materials office by the end of the week that the material was shipped. Tickets not batched in the automatic mode or out of tolerance may be rejected.

Failure to notify the Regional Materials office, shipping unauthorized material or not sending copies of all certified shipments weekly can result in rejection of the material and/or in the plant approval being rescinded.

Very truly yours,

JOHN F. SEXTON, P.E.

Materials Engineer

Enclosure

00031513 (SUBMISSION INSTRUCTIONS ON BACK) FAC NO Date \_ Of every Formula No.\_ Paternia C Submitted By Daile of Ass Levell Č Plant Location Letter Facility No. 11.10500 くられてい 00031513 Plant. NEW YORK STATE
DEPARTMENT OF TRANSPORTATION Mix Type TYPE L BASE (DENSE) JOB MIX FORMULA **MATERIALS BUREAU** Aggregale Blend ر ن ن 12. 15. 17.15 % % įζ AGGREGATE INFORMATION 6 記さないが Source Number 3-1013 3-1013 3-10. R 20.00 \$ 1 MINERAL FILLER Manufactured Aggregates 3 or 3A No. 1A Natural No. 2. Š. EINE... COARSE BR 175 M (8/95) \$ <del>Q</del> 2 9 ႙ 2 20 8 8 8 PERCENT PASSING

Asphall Grade 8 8 180 75 Jrm 178 Asphall Content 25.E 850 FT 75 µm 180 Jim 3.2 mm 425 µm 850 µm 6.3 mm U.S. STD. SIZES - RAISED TO 0.45 POWER 3.2 mm 12.5 mm 25.0 mm O'BRIEN & CHERTHINGINEERS, INC. REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT By BAK DOCUMENTS Date

FILE

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PERCENT RETAINED

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10063

Region

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COPY

AC64-3

(Percent)

3.6

4-12 or Or

, , , 15-24

2

36 57 31-45

49-63

(4) (4) 57-84

83.93

340

186

800

3. Targol Volue

2. JMF Range

% Passing

Approved Sy Regional Director\_

Remarks:

6.3 mm

12.5 mm

25.0 mm

37.5 mm 9c //: 10.

50.0 mm

Sleve Size

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1. General Umils

4.0

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20

Dale,

FILE COPY РЕЯСЕИТ ВЕТАІИЕD 8 2 ဓ္ဓ 8 8 ဓ္ဗ 6 ဂ္ဂ 20 0 0 ACC! C Asphalt Grade Reglon 75 FI 등 등 -\_ Dato \_\_ 425 µm 16. 50 CC Asphalt Content (Percent) (SUBMISSION INSTRUCTIONS ON BACK) 19-X 5.8.7.0 Formula No. 850 F TO COUNTY OF THE 75 µm Ç 2.6 Submitted By Firld Sever St. Value Active H 7 3.2 mm 180 µm 4-16 () L Nichter 425 µm 5y-B8-27 Plant Location 6.3 mm Facility No. S2-50 U.S. STD. SIZES - RAISED TO 0.45 POWER 850 µm Plant\_ 15-39 /3gg! 18col (S) 3.2 mm 36-65 35-47 Manufactured /Natural Sand Blend 12.5 mm #1A High Friction Blend #1 High Friction Blend NEW YORK STATE DEPARTMENT OF TRANSPORTATION 6.3 mm 85-85 びつの Type 6F Top Course (High Friction) MARSHALL MIX DESIGN JOB MIX FORMULA AGGREGATE SAMPLING FREQUENCY MATERIALS BUREAU Aggregate Blend 25/2 12.5 mm 328 95.100 95.100 54 4 AGGREGATE INFORMATION 33 25.0 mm 2-10FX 5 5 3-17B Source Number 3-176 == ф ф 25.0 mm 3. to 3. 37.5 mm No. 1A Non-Carbonate Stone No. 1 Non-Carbonate Stone therewere 1 MINERAL FILLER Manufactured No. 1A Stone ~ 390 LIMENTS GEHE ENGINEERS, INC. No. 1 Stone EVIEWED SOLELY FOR GENERAL COMPLIANCE Aggregates 1. General Limits Natural 3. Target Value SAMPLE. 2. JMF Range SVIEWED <u>`</u> COVESE LINE 3R 172 M (8/95) REVIEWED % Passing O'BRIEN & 8 9 6 ဓ္တ 8 Sievo Sizo ည ဓ္ဓ 2 ၀ 8 Date IL PERCENT PASSING

Approved by Regional Director. Remarks:

Date.



### **PROJECT SUBMITTAL**

Project Name:

Former Landfill IRM

Submittal No.:

018

Subject:

Former Landfill IRM - Submittal for Technical Specification Section

Special Provision 18

Project No.:

60709-5

Date:

October 7, 2004

Attached you will find a copy of a letter from the New York State Department of Transportation (NYSDOT) to Northern Bituminous Mix, certifying that their plant is in compliance with NYSDOT specifications.

Also attached are four field density test reports. The reports are for the following:

- NYSDOT Type 1 base material (base course) three reports; and,
- NYSDOT Type 6 top material (wear course) one report.

Additional field density test reports will be submitted periodically as paving activity proceeds.

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COMPLIANCE WITH CONTRACT

DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

10/19/04 By NM





# STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION 333 EAST WASHINGTON STREET SYRACUSE, N.Y. 13202

JON P. EDINGER, P.E. REGIONAL DIRECTOR

32 Silk Road

June 4, 2004

JOSEPH H. BOARDMAN COMMISSIONER

REVIEWED

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Pate 10/19/04 By NA

Dear Mr. Venezia:

Mr. Thomas Venezia

Northern Bituminous Mix

Fulton, NY 13069-4862

RE: AUTOMATION APPROVAL FACILITY NO. 10063

On May 11, 2004, personnel from the Materials Bureau and Regional Materials Section inspected the Northern Bituminous Mix, Inc., 3.6 Mg., permanent bituminous concrete batch plant located at Volney, NY. The automation facilities consists of a Libra Gen II Version 2.72-f-NBM computer control system and an Okidata Microline 320 Turbo digital recorder.

As a result of this inspection, it has been determined that the automation and recordation at this plant are in conformance with the requirements outlined in Section 401 of the New York State Department of Transportation Specifications of January 2, 2002.

When producing for Department projects the following limitations shall apply:

- 1. The batching of mineral filler will not be permitted.
- 2. The production of recycle mixes will not be permitted.
- 3. State Operation Modes:

Switch Spec/Comm Position Spec Location Manual Panel

4. All mix designs for NYSDOT production must indicate Spec mix "Y" in the product records set up.

During the 2004 construction season Region 3 will be utilizing consultant plant inspectors. When producing material for Department, it will be the Producers responsibility to notify the Regional Materials office by 3:00 p.m. the day before anticipated production to arrange for plant inspection or authorization to certify.

Certifications with printed tickets shall be transmitted to the Regional Materials office by the end of the week the material was shipped. Tickets not batched in the specification mode or out of tolerance may be rejected.

Failure to notify the Regional Materials office, shipping unauthorized material or not sending copies of all certified shipments weekly will result in the plant approval being rescinded

Very truly yours,

For JOHN F. SEXTON, P.E. Materials Engineer

William E. Wellung.

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DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

nte 10/9/04 By NMK



Syracuse 5866 State Route 31 Cicero, New York 13039 (315) 699-5281 (T) (315) 699-3374 (F)

### TRANSMITTAL

July 30, 2004

Mr. David Woodruff Royal Environmental, Inc. P.O. Box 483 Fayetteville, New York 13066-0483 REVIEWED

REVIEWED SCLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 10/19/04 By NMK

Re:

**Bituminous Testing** 

SPEDES Treatment System IRM and

Former Drainage Swale IRM

Former Inland Fisher Guide Plant (General Motors)

Syracuse, New York ATL File No. ST2318

Enclosed is one copy of the following test reports:

ST2318X-07-06-04	Daily Bituminous Report	June 22, 2004	(Tuesday)
ST2318X-08-07-04	Daily Bituminous Report	July 14, 2004	(Wednesday)
ST2318X-09-07-04	Daily Bituminous Report	July 15, 2004	(Thursday)
ST2318X-10-07-04	Daily Bituminous Report	July 16, 2004	(Friday)

Please contact our office should you have any questions or if we may be of further service.

Sincerely.

ATLANTIC TESTING LABORATORIES, Limited

David J. Wells Division Manager

dwells@atlantictesting.com

DJW/TDW/tam

Enclosures



# ATLANTIC TESTING LABORATORIES, Limited

## - REVIEWED REVIEWED SOLELY FOR GENERAL

COMPLIANCE WITH CONTRACT **DOCUMENTS** 

O'BRIEN & GERE ENGINEERS, INC.

# DAILY BITUMINOUS REPORT NUMBER ST2318X-07-96-04

### PROJECT INFORMATION

Page 1 of 2

CLIENT:

Royal Environmental

DATE:

June 22, 2004

BY NMK

PROJECT:

(Tuesday)

ATL REPRESENTATIVE:

SPEDES Treatment System IRM and

Former Drainage Swale IRM

J. Casler

Former Inland Fisher Guide Plant (General Motors)

Syracuse, New York

Altimate Paving, Inc. NUCLEAR DENSITY GAUGE DATA

PAVING CONTRACTOR:

3430 Gauge Model No.: Troxler

Gauge Serial No.:

20957

### FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, nuclear density testing was performed in accordance with ASTM D 2950 backscatter.

Density tests were performed on the NYSDOT Type 6 Top material supplied from Northern Bituminous, Inc., Fulton, NY, placed and compacted as wearing course over Type 3 Binder material.

Project specifications do not specify a minimum density for the type of material placed. Nuclear density testing was performed to monitor the consistency of the compactive effort applied. Samples of uncompacted material were obtained to perform a Maximum Theoretical Density test in accordance with ASTM D 2041.

WEATHER CONDITIONS: AMBIENT TEMPERATURE:

Rain 66°F PAVER:

Midland Paver

BREAKDOWN ROLLER:

CB534 B-10 ton

FINISH ROLLER:

Wacker 1-ton

### IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Lane	NYSDOT Mix Type	Maximum Theoretical Density (pcf)	Average Field Wet Density (pcf)	Uncorrected Compaction %
1	100' South of North end	18	Type 6 Top	154.1	136.7	89
2	155' South of North end	18	Type 6 Top	154.1	135.3	88
3	200' South of North end	18	Type 6 Top	154.1	139.2	90
4	250' South of North end	18	Type 6 Top	154.1	137.4	89
5	300' South of North end	18	Type 6 Top	154.1	137.2	89
6	350' South of North end	18	Type 6 Top	154.1	137.5	89
7	50' South of North end	19	Type 6 Top	154.1	137.8	89
8	100' South of North end	19	Type 6 Top	154.1	137.1	89
9	150' South of North end	19	Type 6 Top	154.1	133.8	87

### REVIEWED

ATL Report No.: ST2318X-07-06-04

REVIEWED SOLELY FOR GENERAL June 22, 2004

COMPLIANCE WITH CONTRACT Page 2 of 2

88

136.3

COMPLIANCE WITH CONTRACT Page 2 of 2 Royal Environmental DOCUMENTS Average O'BRIEN & CERETENGINEERSE NOWEL Uncorrected Thebretical Density IOII (peffy ///MK NYSDOT Compaction Density Test Mix TOBE (pcf) % Lane Test Location No. 154.1 86 19 Type 6 132.4 10 200' South of North end Top 154.1 132.4 86 19 Type 6 250' South of North end 11 Top 138.3 90 154.1 12 300' South of North end 19 Type 6 Top 136.6 89 154.1 19 Type 6 350' South of North end 13 Top 138.0 90 Type 6 154.1 50' South of North end 20 14 Top 137.7 89 100' South of North end 154.1 20 Type 6 15 Top 88 135.6 20 Type 6 154.1 150' South of North end 16 Top 154.1 136.5 89 Type 6 20 200' South of North end 17 Top 91 140.0 154.1 20 Type 6 250' South of North end 18 Top 154.1 141.3 92 20 Type 6 300' South of North end 19 Top · 90 154.1 138.8 20 350' South of North end Type 6 20 Top 154.1 136.2 88 21 Type 6 50' South of North end 21 Top 89 137.7 154.1 100' South of North end 21 Type 6 22 Top 89 154.1 137.2 21 Type 6 150' South of North end 23 Top 91 140.9 154.1 21 Type 6 200' South of North end 24 Top 88 154.1 136.0 21 Type 6 250' South of North end 25 Top 89 136.6 154.1 21 Type 6 300' South of North end 26 Top 154.1 135.2 88 Type 6 21 350' South of North end 27 Top 91 139.5 22 Type 6 154.1 50' South of North end 28

### REMARKS

Top

Type 6

Top

154.1

Paying lanes run North to Sou	h starting on West si	de o	f parking	lot
-------------------------------	-----------------------	------	-----------	-----

100' South of North end

29

Three to four passes of the breakdown and finish rollers were observed for each paving lane.

Water was draining across parking lot perpendicular to paving lanes. Surface water was observed in a 20' x 200' area from the north end of pavement.

A representative of Royal Environmental was informed of all observations and test results prior to departure from the site.

22

Reviewed by:	Daugh hus	Date:	812104
--------------	-----------	-------	--------



# ATLANTIC TESTING LABORATORIES, Limited

### REVIEWED

REVIEWED SOLELY FOR GENERAL **COMPLIANCE WITH CONTRACT** 

**DOCUMENTS** O'BRIEN & GERE ENGINEERS, INC.

# DAILY BITUMINOUS REPORT NUMBER ST2318X-08-07-04

### PROJECT INFORMATION

Page 1 of 1

CLIENT:

Royal Environmental

DATE: July 14, 2004 (Wednesday)

PROJECT:

SPEDES Treatment System IRM and

ATL REPRESENTATIVE:

Former Drainage Swale IRM

J. Casler

Former Inland Fisher Guide Plant (General Motors)

Syracuse, New York

PAVING CONTRACTOR:

Altimate Paving, Inc.

NUCLEAR DENSITY GAUGE DATA

Gauge Model No.: Troxler 3430

Gauge Serial No.:

20957

### FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, nuclear density testing was performed in accordance with ASTM D 2950 backscatter.

Density tests were performed on the NYSDOT Type 1 Base material supplied from Northern Bituminous, Inc., Fulton, NY, placed and compacted as base course over run-of-crusher subbase material.

Project specifications do not specify a minimum density for the type of material placed. Nuclear density testing was performed to monitor the consistency of the compactive effort applied. A sample of uncompacted material was obtained to perform a Maximum Theoretical Density test in accordance with ASTM D 2041.

WEATHER CONDITIONS:

Rain

PAVER:

Midland Paver

AMBIENT TEMPERATURE: 66°F BREAKDOWN ROLLER:

CB534 B-10 ton

FINISH ROLLER:

Wacker 1-ton

### IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Lane	NYSDOT Mix Type	Maximum Theoretical Density (pcf)	Average Field Wet Density (pcf)	Uncorrected Compaction %
1	30' South of old lanes; 115' West of the South end of the original Lane #1	1 (South)	Type 1Base	155.5	138.6	89

### REMARKS

Three to four passes of the breakdown and finish rollers were observed for each paving lane.

Asphalt placement was cancelled due to inclement weather conditions.

A representative of Royal Environmental was informed of all observations and test results prior to departure from the site.

Reviewed by:	<u> </u>	Kung	( Que)		Date:	_812/04
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# ATLANTIC TESTING LABORATORIES, Limited

REVIEWED **REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS** 

O'BRIEN & GERE ENGINEERS, INC.

### DAILY BITUMINOUS REPORT NUMBER ST2318X-09-07-04

### PROJECT INFORMATION

Page 1 of 3

CLIENT:

Royal Environmental

DATE: July 15, 2004

PROJECT:

(Thursday)

SPEDES Treatment System IRM and

Former Inland Fisher Guide Plant (General

ATL REPRESENTATIVE:

Former Drainage Swale IRM

J. Casler

Motors)

Syracuse, New York

PAVING CONTRACTOR:

Altimate Paving, Inc.

**NUCLEAR DENSITY GAUGE DATA** 

Gauge Model No.: Troxler 3430

Gauge Serial No.:

20957

### FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, nuclear density testing was performed in accordance with ASTM D 2950 backscatter.

Density tests were performed on the NYSDOT Type 1 Base material supplied from Northern Bituminous, Inc., Fulton, NY, placed and compacted as base course over run-of-crusher subbase material.

Project specifications do not specify a minimum density for the type of material placed. Nuclear density testing was performed to monitor the consistency of the compactive effort applied. A sample of uncompacted material was obtained to perform a Maximum Theoretical Density test in accordance with ASTM D 2041.

**WEATHER CONDITIONS:** 

Overcast

PAVER:

Midland Paver

AMBIENT TEMPERATURE:

61°F

BREAKDOWN ROLLER:

CB534 B-10 ton

FINISH ROLLER:

Wacker 1-ton

IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Lane	NYSDOT Mix Type	Maximum Theoretical Density (pcf)	Average Field Wet Density (pcf)	Uncorrected Compaction %
1	20' South of previously placed lanes	10 South	Type I Base	154.7	131.8	85
2	25' South of previously placed lanes	11 South	Type 1 Base	154.7	129.5	84
3	30' South of previously placed lanes	12 South	Type 1 Base	154.7	136.4	88
4	30' South of previously placed lanes	12 South	Type 1 Base	154.7	138.6	90
5	30' South of previously placed lanes	12 South	Type 1 Base	154.7	137.6	89
6	30' South of previously placed lanes	12 South	Type I Base	154.7	137.9	89
7	50' East of West end	#5 South end	Type 1 Base	154.7	132.9	86
8	100' East of West end	#5 South end	Type 1 Base	154.7	135.7	88
9	150' East of West end	#5 South end	Type 1 Base	154.7	135.3	87
10	200' East of West end	#5 South end	Type 1 Base	154.7	136.9	88
11	250' East of West end	#5 South end	Type 1	154.7	139.9	90

WEATEMED

ATL Report No.: ST2318X-09-07-04

Royal Environmental

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**COMPLIANCE WITH CONTRACT** 

**DOCUMENTS** 

July 15, 2004 Page 2 of 3

O'BRIEN & GERE ENGINEERS, INC.

By NMK

	Cas Mily Dy Color								
				Maximum	Average Field Wet	Uncorrected			
Test	T		NYSDOT	Theoretical Density	Density	Compaction			
No.	Test Location	Lane	Mix Type	(pcf)	(pcf)	%			
12	45' East of West end	#4 South end	Type 1 Base	154.7	138.6	90			
13	95' East of West end	#4 South end	Type 1 Base	154.7	142.6	92			
14	150' East of West end	#4 South end	Type 1 Base	154.7	145.3	94			
15	200' East of West end	#4 South end	Type 1 Base	154.7	142.8	92			
16	250' East of West end	#4 South end	Type 1 Base	154.7	146.7	95			
17	50' East of West end	#3 South end	Type 1 Base	154.7	140.0	90			
18	100' East of West end	#3 South end	Type 1 Base	154.7	138.6	90			
19	150' East of West end	#3 South end	Type I Base	154.7	141.7	92			
20	200' East of West end	#3 South end	Type 1 Base	154.7	142.0	92			
21	250' East of West end	#3 South end	Type 1 Base	154.7	139.0	90			
22	50' East of West end	#2 South end	Type l Base	154.7	139.5	90			
23	100' East of West end	#2 South end	Type 1 Base	154.7	137.0	89			
24	150' East of West end	#2 South end	Type 1 Base	154.7	140.7	91			
25	200' East of West end	#2 South end	Type 1 Base	154.7	140.8	91			
26	250' East of West end	#2 South end	Type 1 Base	154.7	144.0	93			
27	50' East of West end	#1 South end	Type 1	154.7	138.7	90			
	20 Zust of West one	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Base		141.2	91			
	·				143.2	93			
					143.0	92			
28	100' East of West end	#1 South end	Type 1 Base	154.7	139.4	90			
29	150' East of West end	#1 South end	Type 1 Base	154.7	140.3	91			
30	200' East of West end	#1 South end	Type 1 Base	154.7	140.3	91			
31	250' East of West end	#1 South end	Type 1 Base	154.7	139.1	90			
. 32	150' East of West end	#6 South end	Type 1 Base	154.7	140.7	91			
33	200' East of West end	#6 South end	Type 1 Base	154.7	142.2	92			
34	250' East of West end	#6 South end	Type 1 Base	154.7	142.0	92			
35	165' East of West end	#7 South end	Type 1 Base	154.7	140.7	91			
36	205' East of West end	#7 South end	Type I	154.7	140.1	91			

Base

July 15, 2004 Page 3 of 3

ATL Report No.: ST2318X-09-07-04

Royal	Environmental				Г	age 3 of 3
Test No.	Test Location	Lane	NYSDOT Mix Type	Maximum Theoretical Density (pcf)	Average Field Wet Density (pcf)	Uncorrected Compaction %
37	250' East of West end	#7 South end	Type l Base	154.7	141.7	92
38	160' East of West end	#8 South end	Type 1 Base	154.7	136.9	88
39	200' East of West end	#8 South end	Type 1 Base	154.7	141.0	91
40	250' East of West end	#8 South end	Type 1 Base	154.7	141.1	91
41	210' East of West end	#9 South end	Type l Base	154.7	138.2	89
42	260' East of West end	#9 South end	Type 1 Base	154.7	138.5	90
43	50° North of South end	1 <sup>st</sup> diagonal lane in SE corner	Type 1 Base	154.7	141.2	91
44	100' North of South end	l <sup>st</sup> diagonal lane in SE corner	Type l Base	154.7	141.3	91
45	150' North of South end	l <sup>st</sup> diagonal lane in SE corner	Type 1 Base	154.7	141.5	91
46	50' North of South end	2 <sup>nd</sup> diagonal lane in SE corner	Type l Base	154.7	142.1	92
47	100' North of South end	2 <sup>nd</sup> diagonal lane in SE corner	Type 1 Base	154.7	143.0	92
48	150' North of South end	2 <sup>nd</sup> diagonal lane in SE corner	Type 1 Base	154.7	141.1	91

### REMARKS

Paving lanes run north to south, excluding the southeast corner where paving was placed in diagonal lanes running northeast to

Three to four passes of the breakdown and finish rollers were observed for each passing lane.

A representative of Royal Environmental was informed of all observations and test results prior to departure from the site.

Reviewed by:	_ Dange And	Date: 8/2/04
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REVIEWED REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT **DOCUMENTS** 

O'BRIEN & GERE ENGINEERS, INC.



# ATLANTIC TESTING LABORATORIES, Limited

### REVIEWED

REVIEWED SOLELY FOR GENERAL **COMPLIANCE** WITH CONTRACT

**DOCUMENTS** 

# DAILY BITUMINOUS REPORT NUMBER ST2318X-10-07-04

O'BRIEN & GERE ENGINEERS, INC.

PROJECT INFORMATION

Page 1 of 2

CLIENT:

Royal Environmental

DATE:

July 16, 2004

(Friday)

PROJECT:

SPEDES Treatment System IRM and

ATL REPRESENTATIVE:

J. Casler

Former Drainage Swale IRM

Former Inland Fisher Guide Plant (General

Motors)

Syracuse, New York

PAVING CONTRACTOR:

Altimate Paving, Inc.

**NUCLEAR DENSITY GAUGE DATA** 

Gauge Model No.: Troxler 3430

Gauge Serial No.:

20957

FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, nuclear density testing was performed in accordance with ASTM D 2950 backscatter.

Density tests were performed on the NYSDOT Type 1 Base material supplied from Northern Bituminous, Inc., Fulton, NY, placed and compacted as base course over run-of-crusher subbase material.

Project specifications do not specify a minimum density for the type of material placed. Nuclear density testing was performed to monitor the consistency of the compactive effort applied. A sample of uncompacted material was obtained to perform a Maximum Theoretical Density test in accordance with ASTM D 2041.

**WEATHER CONDITIONS:** 

Cloudy with some rain

PAVER:

Midland Paver

AMBIENT TEMPERATURE:

BREAKDOWN ROLLER:

CB534 B-10 ton

FINISH ROLLER:

Wacker 1-ton

IN-PLACE FIELD DENSITY TEST RESULTS

					Average	
1				Maximum	Field Wet	Uncorrected
Test			NYSDOT	Theoretical Density	Density	Compaction
No.	Test Location	Lane	Mix Type	(pcf)	(pcf)	%
1	50' North of South end	#3 diagonal lane in	Type 1	155.0	143.0	92
ļ <sup>-</sup>		Southeast corner	Base			
2	100' North of South end	#3 diagonal lane in	Type 1	155.0	138.4	89
-		Southeast corner	Base			
3	150' North of South end	#3 diagonal lane in	Type 1	155.0	141.3	91
]		Southeast corner	Base			
4	50' North of South end	#4 diagonal lane in	Type 1	155.0	141.2	91
		Southeast corner	Base			
5	100' North of South end	#4 diagonal lane in	Type 1	155.0	143.3	92
		Southeast corner	Base			
6	140' North of South end	#4 diagonal lane in	Type I	155.0	141.1	91
`		Southeast corner	Base			
. 7	105' North of South end	#5 diagonal lane in	Type 1	155.0	141.8	91
1		Southeast corner	Base			
8	150' North of South end	#5 diagonal lane in	Type 1	155.0	139.3	90
*		Southeast corner	Base			
9	75' South of North end	#37from West side	Type 1	155.0	140.9	91
1			Base			
10	120' South of North end	#37from West side	Type 1	155.0	141.1	91
'			Base			
11	45' South of North end	#38 from West side	Type 1	155.0	143.1	92
			Base			l

ATL Report No.: ST2318X-10-07-04

Royal Environmental

July 16, 2004 Page 2 of 2

Kovai	Environmental					
Test	Test Location	Lane	NYSDOT Mix Type	Maximum Theoretical Density (pcf)	Average Field Wet Density (pcf)	Uncorrected Compaction %
12	90' South of North end	#38 from West side	Type 1 Base	155.0	14.1	90
13	130' South of North end	#38 from West side	Type 1 Base	155.0	140.9	91
14	50' South of North end	#39 from West side	Type 1 Base	155.0	140.4	91
15	100' South of North end	#39 from West side	Type 1 Base	155.0	141.3	91
16	50' South of North end	#40 from West side	Type 1 Base	155.0	141.9	92
17	85' South of North end	#40 from West side	Type 1 Base	155.0	142.9	92
18	50' South of North end	#41 from West side	Type 1 Base	155.0	140.0	91
19	100' South of North end	#41 from West side	Type 1 Base	155.0	139.0	90

### **REMARKS**

Paving lanes run north to south, excluding the southeast corner where paving was placed in diagonal lanes running northeast to southwest.

Three to four passes of the breakdown and finish rollers were observed for each paving lane.

A representative of Royal Environmental was informed of all observations and test results prior to departure from the site.

Reviewed by: Durch Date: 8/2/04
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REVIEWED

REVIEWED SOLELY FOR GENERAL

COMPLIANCE WITH CONTRACT

DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

O'BRIEN & GERE ENGINEERS, INC.



# **PROJECT SUBMITTAL**

Project Name:

Former Landfill IRM

Submittal No.:

029

Subject:

Former Landfill IRM - Submittal for Special Provision 18

Project No.:

60709-5

Date:

January 21, 2005

Attached you will find Daily Bituminous Reports (testing performed November 15<sup>th</sup> and 16<sup>th</sup>, 2004) for the asphalt access roadway from Factory Avenue to the parking lot on the landfill cap.

REVIEWED

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.



Syracuse 5866 State Route 31 Cicero, New York 13039 (315) 699-5281 (T) (315) 699-3374 (F)

### TRANSMITTAL

December 6, 2004

Mr. David Woodruff Royal Environmental, Inc. 1 General Motors Drive Syracuse, New York 13206 REVIEWED

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 2/23/05 By 1/1/K

Re:

**Bituminous Testing** 

SPEDES Treatment System IRM and

Former Drainage Swale IRM

Former Inland Fisher Guide Plant (General Motors)

Syracuse, New York ATL File No.: ST2318

Enclosed is one copy of the following test reports:

ST2318X-11-11-04

Daily Bituminous Report

November 15, 2004

(Monday)

ST2318X-12-11-04

Daily Bituminous Report

November 16, 2004

(Tuesday)

Please contact our office should you have any questions or if we may be of further service.

Sincerely,

ATLANTIC TESTING LABORATORIES, Limited

David J. Wells

Division Manager

dwells@atlantictesting.com

DJW/TDW/tam

**Enclosures** 



### DAILY BITUMINOUS REPORT NUMBER ST2318X-11-11-04

### PROJECT INFORMATION

Page 1 of 2

CLIENT:

Royal Environmental, Inc.

DATE:

November 15, 2004

(Monday)

PROJECT:

SPEDES Treatment System IRM and

ATL REPRESENTATIVE:

J. CHEVIEWED

Former Drainage Swale IRM Former Inland Fisher Guide Plant (General

REVIEWED SOLELY FOR GENERAL

Motors)

**COMPLIANCE WITH CONTRACT** 

Syracuse, New York

DOCUMENTS

PAVING CONTRACTOR:

Altimate Paving, Inc.

o'brien 4 gere enginee**rs, inc**.

NUCLEAR DENSITY GAUGE DATA

Gauge Model No.: Troxler

Gauge Serial No.:

9012

### FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, Inc., nuclear density testing was performed in accordance with ASTM D 2950 backscatter.

Density tests were performed on the NYSDOT Type 1 Base material supplied from Northern Bituminous, Inc., Fulton, NY, placed and compacted as base course (over run-of-crusher subbase material) for the 2-lane driveway connecting the parking lot and Factory

Project specifications do not specify a minimum density for the type of material placed. Nuclear density testing was performed to monitor the consistency of the compactive effort applied. A sample of uncompacted material was obtained to perform a Maximum Theoretical Density test in accordance with ASTM D 2041.

**WEATHER CONDITIONS:** 

Sunny

PAVER:

Barber Greene

AMBIENT TEMPERATURE:

55°F @ 11:00 BREAKDOWN ROLLER:

Caterpillar CB534B

FINISH ROLLER:

None

### IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Lane	NYSDOT Mix Type	Maximum Theoretical Density (pcf)	Average Field Wet Density (pcf)	Uncorrected Compaction %
1	50' S of Factory Ave.	West	Type 1 Base	155.0	137.0	88
·					141.3	91
					141.9	92
					141.3	91
2	100' S of Factory Ave.	West	Type 1 Base	155.0	124.6	80
	,				140.5	91
					141.5	91
					140.9	91
3	150' S of Factory Ave.	West	Type 1 Base	155.0	139.9	90
					141.8	91
					140.3	91
4	200' S of Factory Ave.	West	Type 1 Base	155.0	137.5	89
5	250' S of Factory Ave.	West	Type 1 Base	155.0	139.9	. 90
6	50' S of Factory Ave.	East	Type 1 Base	155.0	147.4	95

Test No.	Test Location	Lane	NYSDOT Mix Type	Maximum Theoretical Density (pcf)	Average Field Wet Density (pcf)	Uncorrected Compaction
7	100' S of Factory Ave.	East	Type 1 Base	155.0	148.1	96
8	150' S of Factory Ave.	East	Type 1 Base	155.0	143.0	92
9	200' S of Factory Ave.	East	Type 1 Base	155.0	142.4	92
10	250' S of Factory Ave.	East	Type 1 Base	155.0	143.3	92

IN-PLACE HOT MIX ASPHALT TEMPERATURES

TIME	TEMPERATURE (°F)			
12:50 pm	285° (NYSDOT Type 1 Base)			

### REMARKS

The contractor began paving operations at 10:30 a.m.

A sample of uncompacted bituminous mix was obtained during placement near the south end of the driveway for laboratory testing in accordance with ASTM D 2041. It was subsequently determined that the sample was not representative of the Type I Modified Base material placed on this date. A small quantity of Type 3 Binder had been placed and accepted by the client in the vicinity of the sample location and resulted in contamination of the sample. An average maximum specific gravity value was determined for the mix type from previous placement dates and was used to calculate the above uncorrected percent compaction.

The uncorrected percent compaction results obtained in the field by nuclear method were not correlated to laboratory tested core specimens.

Four to five passes of the breakdown roller were observed for each paving lane.

A representative of Royal Environmental, Inc. was informed of all observations and test results prior to departure from the site.

REVIEWED

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COMPLIANCE WITH CONTRACT

DOCUMENTS

O'BRIEN & GERE ENGINEERS, RNC.

2/23/05 D. A/JAN.

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### DAILY BITUMINOUS REPORT NUMBER ST2318X-12-11-04

### PROJECT INFORMATION

Page 1 of 2

CLIENT:

Royal Environmental, Inc.

DATE:

November 16, 2004

PROJECT:

SPEDES Treatment System IRM and

ATL REPRESENTATIVE:

(Tuesday)

Former Drainage Swale IRM

REVIEWED

Former Inland Fisher Guide Plant (General

REVIEWED SOLELY FOR GENERAL

Motors)

Syracuse, New York

COMPLIANCE WITH CONTRACT

J. Casler

PAVING CONTRACTOR:

Altimate Paving, Inc.

DOCUMENTS

PLACEMENT LOCATION:

Driveway connecting parking lot to Factory Ave.

O'BRIEN & GERE ENGINEERS, INC.

**NUCLEAR DENSITY GAUGE DATA** 

Gauge Model No.: Troxler

Gauge Serial No.:

9012

### FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, Inc., nuclear density testing was performed in accordance with ASTM D 2950 backscatter.

Density tests were performed on the NYSDOT Type 6 Top material supplied from Northern Bituminous, Inc., Fulton, NY, placed and compacted as wearing course (over Type 1 Base material) for the 2-lane driveway connecting the parking lot and Factory Avenue.

Project specifications do not specify a minimum density for the type of material placed. Nuclear density testing was performed to monitor the consistency of the compactive effort applied. A sample of uncompacted material was obtained to perform a Maximum Theoretical Density test in accordance with ASTM D 2041.

**WEATHER CONDITIONS:** 

Cloudy 45°F

PAVER:

Barber Greene

AMBIENT TEMPERATURE:

@ 9:07 am

BREAKDOWN ROLLER:

PAC 3600

FINISH ROLLER:

Caterpillar CB534B

### IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Lane	NYSDOT Mix Type	Maximum Theoretical Density (pcf)	Average Field Wet Density (pcf)	Uncorrected Compaction %
1	50' S of Factory Ave.	East	Туре 6 Тор	155.9	134.9	87
			•		137.0	88
					135.0	87
					136.0	87
2	100' S of Factory Ave.	East	Туре 6 Тор	155.9	127.5	82
					131.9	85
					130.9	84
		·			133.8	86
3	150' S of Factory Ave.	East	Type 6 Top	155.9	131.3	84
ľ	-	·			136.5	88
					135.0	87
					135.4	87
4	200' S of Factory Ave.	East	Туре 6 Тор	155.9	135.4	87
5	250' S of Factory Ave.	East	Туре 6 Тор	155.9	136.8	88

ATL Report No.: ST2318X-12-11-04

Royal Environmental, Inc.

Test	Test Location	Lane	NYSDOT Mix Type	Maximum Theoretical Density (pcf)	Average Field Wet Density (pcf)	Uncorrected Compaction %
6	50' S of Factory Ave.	West	Туре 6 Тор	155.9	134.6	86
7	100' S of Factory Ave.	West	Type 6 Top	155.9	136.1	87
8	150' S of Factory Ave.	West	Туре 6 Тор	155.9	132.3	86
9	200' S of Factory Ave.	West	Type 6 Top	155.9	133.6	86
10	250' S of Factory Ave.	West	Туре 6 Тор	155.9	138.4	87

IN-PLACE HOT MIX ASPHALT TEMPERATURES

TIME	TEMPERATURE (°F)
9:45 am	250° (NYSDOT Type 6 Top)

### **REMARKS**

A sample of uncompacted bituminous mix was obtained during placement approximately 100' South of Factory Avenue, east lane. The uncorrected percent compaction results obtained in the field by nuclear method were not correlated to the laboratory tested core specimens.

Four to five passes of the breakdown and finish rollers were observed for each paving lane.

A representative of Royal Environmental, Inc. was informed of all observations and test results prior to departure from the site.

REVIEWED

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 2/23/05 By //MK

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Reviewed by:	1 Durch las	Date:	1718104
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### **CLARIFICATON**

To: Mr. Nathyn Knipe, O'Brien & Gere Engineers

From: Paul Micciche P.M.

CC: David Woodruff

Date: February 4, 2005

Re: Addendum to Project Submittal No. 29 (January 21, 2005), for Special Provision

18 - Former Landfill IRM, FIFG (GM) Syracuse, New York

In response to your inquiry regarding Atlantic Testing Laboratories' Daily Bituminous Report Number ST2318X-11-11-04 (November 15, 2004) - Royal has determined that the statement in the Remarks section of the report ("A small quantity of Type 3 Binder had been placed and accepted by the client in the vicinity of the sample location and resulted in contamination of the sample"), is accurate.

Clarification - Atlantic Testing Laboratories' representative mistakenly obtained a sample of the Type 3 Binder being used for the purpose of tying in (via hand work) the margins of previously paved sections to the portions where Type 1 Base was being placed on November 15<sup>th</sup>. A single truckload of Type 3 Binder was present on-site. After the representative realized his error, an average maximum specific gravity value was determined for the Type 1 Base mix type from previous placement dates, and this value was used to calculate the uncorrected percent compaction. Therefore, the sampling error did not affect the field nuclear density testing results.

Low permeability material – Test results and non-hazardous waste documentation



### PROJECT SUBMITTAL

Project Name:

Former Landfill IRM

Submittal No.:

014

Subject:

Former Landfill IRM - Submittal for Technical Specification Section

02297

Project No.:

60709-5

Date:

July 29, 2004

Attached you will find the following submittals for the Low Permeability Material:

- Laboratory analytical testing data [PCBs M.8082, VOCs M.8260, TCL Metals, and SVOCs (ABNs) – M.8270];
- In-Place Field Density Testing Results;
- Laboratory physical testing data [Particle Size Distribution, Compaction Test, and Hydraulic Conductivity]; and,
- Affidavit from Owner of the source.



REVIEWED
REVIEWED SOLELY FOR GENERAL
COMPLIANCE WITH CONTRACT
DOCUMENTS

7280 Caswell Street, Hancock Air Park, North Syracuse, NY 13212 O'BRIEN & GERE ENGINEERS, INC. (315) 458-8033, FAX (315) 458-0249, (800) 842-4667 Date 8/10/04 By BAK

Connecticut
 Delaware
 Maryland
 Massachusetts
 Neve,
 Hampshire
 Assections
 Assections
 Sales
 Sales
 Sales
 Sales
 Sales

ROYAL ENVIRONMENTAL

1 General Motors Drive

PROJECT #: RECEIVED:

209572 06/17/2004

Syracuse, NY 13206 ATTN: Mr. Paul Micciche

PO#: 10795

Site Address: FIFGP

GENERAL MOTORS DRIVE

SYRACUSE, NY

TEST PERFORMED		RESULTS	UNITS	DATE/TIME PERFORMED	METHOD NUMBER	PERFORMED BY
SAMPLE #: 372032	CLIENT SAMPLE ID:	FIFGP LOW	BERM		DATE SAMPLED:	06/17/04
Semi-Volatile - 8270	A/B/N					
1,2,4-trichlor	obenzene	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
1,2-dichlorob	enzene	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
1,2-diphenyll	hydrazine	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
1,2-Dipl	henylhydrazine breaks down	in the injection po	rt. It is analyzed and re	ported as Azobenzene.		
1,3-dichlorob	enzene	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
1,4-dichlorob	enzene	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
2,4,5-trichlor	ophenol	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
2,4,6-trichlor	ophenol	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
2,4-dichlorop	henoi	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
2,4-dimethyl	phenol	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	кно
2,4-dinitroph	enol	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
2,4-dinitrotol	uene	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
2,6-dinitrotol	uene	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
2-chloronaph	ithalene	< 0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
2-chloropher	iol	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
2-methyl-4,6	-dinitrophenol	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
2-methylnapl	nthalene	< 0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
2-methylpher		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
2-nitroaniline		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
2-nitropheno		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
3,3'-dichlorol	benzidine	<1.08	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
3+4-methylpl	nenol	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
3-nitroaniline	,	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
4-bromopher	nyl phenyl ether	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
4-chloro-3-m	ethylphenol	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
4-chloroanilir	ne	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
4-chlorophen	yl phenyl ether	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
4-nitroanitine		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
4-nitrophenol		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
acenaphthen	е	< 0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
acenaphthyle	ene	< 0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO

Syracuse, NY 13206 ATTN: Mr. Paul Micciche

PO#: 10795

REVIEWED

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.
Date 8/10/04 By BAK

PROJECT #: RECEIVED:

209572 06/17/2004

Site Address:

**FIFGP** 

GENERAL MOTORS DRIVE

SYRACUSE,NY

TEST PERFORMED		RESULTS	UNITS	DATE/TIME PERFORMED	METHOD NUMBER	PERFORMED BY
SAMPLE #: 372032 CLIENT SAMPLE ID:		FIFGP LOW	BERM		DATE SAMPLED:	06/17/04
Semi-Volatile - 8270 A/B/N						
aniline		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
anthracene		<0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
benzo(a)anthracene		<0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
benzo(a)pyrene		<0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
benzo(b)fluoranthene		<0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
benzo(g,h,i)perylene		<0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
benzo(k)fluoranthene		<0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
benzoic acid		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
benzyl alcohol		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
bis(2-chloroethoxy)meth	ane	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	кно
bis(2-chloroethyl) ether		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	кно
bis(2-chloroisopropyl) et	her	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	кно
bis(2-ethylhexyl) phthala	te	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	КНО
butyl benzyl phthalate		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
chrysene		<0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	КНО
dibenz(a,h)anthracene		<0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	КНО
dibenzofuran		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	КНО
diethyl phthalate		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	КНО
dimethyl phthalate		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	КНО
di-n-butyl phthalate		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	КНО
di-n-octyl phthalate		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	кно
fluoranthene		<0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
fluorene		<0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
hexachlorobenzene		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
hexachlorobutadiene		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
hexachlorocyclopentadie	ene	<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
hexachloroethane		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
indeno(1,2,3-cd)pyrene		< 0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
isophorone		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	кно
naphthalene		< 0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
nitrobenzene		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
n-nitrosodimethylamine		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
n-nitrosodiphenylamine		<0.270	MG/KG DRY WT.		EPA 8270C	KHO
n-nitrosodipropylamine		<0.270	MG/KG DRY WT.		EPA 8270C	KHO
pentachlorophenol		<0.270	MG/KG DRY WT.		EPA 8270C	KHO
phenanthrene		< 0.0540	MG/KG DRY WT.		EPA 8270C	KHO
phenol		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
pyrene		<0.0540	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
pyridine		<0.270	MG/KG DRY WT.	06/24/04	EPA 8270C	KHO
Solid Soxhlet Extraction		0.2.0		06/21/04	EPA 3540C	MKE
Semi-Volatile - PCB'S				00/21/04	LI II JJ700	MILYE



Syracuse, NY 13206 ATTN: Mr. Paul Micciche

Environmental LABORATORY SERVICES

PO#: 10795

REVIEWED

REVIEWED SOLELY FOR GENERAL
COMPLIANCE WITH CONTRACT
DOCUMENTS
O'BRIEN & GERE ENGINEERS, INC.

By BAK

PROJECT #: RECEIVED:

209572 06/17/2004

Site Address:

**FIFGP** 

GENERAL MOTORS DRIVE

SYRACUSE, NY

TEST PERFORMED		RESULTS	UNITS	DATE/TIME PERFORMED	METHOD NUMBER	PERFORMED BY
SAMPLE #: 372032	CLIENT SAMPLE ID:	FIFGP LOW	BERM		DATE SAMPLED:	06/17/04
Semi-Volatile - PCB'	S					00/1//04
aroclor 1016		<0.0533	MG/KG DRY WT.	06/19/04	EPA 8082	MNE
aroclor 1221		< 0.0533	MG/KG DRY WT.	06/19/04	EPA 8082	MNE
aroclor 1232		< 0.0533	MG/KG DRY WT.	06/19/04	EPA 8082	MNE
aroclor 1242		< 0.0533	MG/KG DRY WT.	06/19/04	EPA 8082	MNE
aroclor 1248		< 0.0533	MG/KG DRY WT.	06/19/04	EPA 8082	MNE
aroclor 1254		< 0.0533	MG/KG DRY WT.	06/19/04	EPA 8082	MNE
aroclor 1260		< 0.0533	MG/KG DRY WT.	06/19/04	EPA 8082	MNE
Solid Ultrasor	nic Extraction			06/17/04	EPA 3550B	MKE
SOLIDS, TOTAL		92	PERCENT	06/23/04	SM18 2540B	CSA
TCL MERCURY		<0.043	MG/KG DRY WT.	06/24/04	EPA 7471A	NSH
TCL METALS					Direction 1	11011
aluminum		6600	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
antimony		<5.55	MG/KG DRY WT.	06/23/04	EPA 6010	NSH
arsenic		6.28	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
barium		129	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
beryllium		0.238	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
cadmium		0.327	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
calcium		88600	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
chromium		9.48	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
cobalt		5.99	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
copper		17.9	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
iron		15500	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
lead		<5.55	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
magnesium		23800	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
manganese		353	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
nickel		13.4	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
potassium		2510	MG/KG DRY WT.	06/23/04	EPA 6010	NSH
selenium		<5.55	MG/KG DRY WT.	06/23/04	EPA 6010	NSH
silver		< 0.555	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
sodium		216	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
thallium		<5.55	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
vanadium		<1.39	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
zinc		33.9	MG/KG DRY WT.	06/24/04	EPA 6010	NSH
Metals Digest	ion			06/21/04	EPA 3050B	BDR
Volatile - 8260						
1,1,1,2-tetract	nloroethane	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,1,1-trichloro		<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,1,2,2-tetrach		<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,1,2-trichloro		<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,1-dichloroet	hane	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
Π			Page 3 of 5			

Syracuse, NY 13206 ATTN: Mr. Paul Micciche

PO#: 10795

SAM V

REVIEWED REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT **DOCUMENTS** 

O'BRIEN & GERE ENGINEERS, INC. Date 8/10 OH BY BAK

PROJECT#: RECEIVED:

209572 06/17/2004

Site Address:

**FIFGP** 

**GENERAL MOTORS DRIVE** SYRACUSE NY

			SYRACUS	=,NY	
TEST PERFORMED	RESULTS	UNITS	DATE/TIME PERFORMED	METHOD NUMBER	PERFORMED BY
SAMPLE #: 372032 CLIENT SAMPLE ID: Volatile - 8260	FIFGP LOW	BERM		DATE SAMPLED:	06/17/04
1,1-dichloroethene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,1-dichloropropene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,2,3-trichlorobenzene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,2,3-trichloropropane	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,2,4-trichlorobenzene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,2,4-trimethylbenzene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,2-dibromo-3-chloropropane	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,2-dibromoethane	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,2-dichlorobenzene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,2-dichloroethane	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,2-dichloropropane	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,3,5-trimethylbenzene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,3-dichlorobenzene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,3-dichloropropane	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
1,4-dichlorobenzene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
2,2-dichloropropane	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
2-butanone	<0.500	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
<b>~</b>					

2-chlorotoluene <0.100 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHŌ 2-hexanone < 0.500 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHO 4-chiorotoluene <0.100 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHO 4-isopropyltoluene < 0.100 MG/KG DRY WT. 06/24/04 EPA 8260B KHO 4-methyl-2-pentanone < 0.500 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHO acetone < 0.500 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHO acrylonitrile <0.100 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHO benzene < 0.100 MG/KG DRY WT. 06/24/04 EPA 8260B KHO bromobenzene < 0.100 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHO bromochloromethane < 0.100 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHO bromodichloromethane < 0.100 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHO bromoform <0.100 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHO bromomethane < 0.500 MG/KG DRY WT. 06/24/04 **EPA 8260B KHO** carbon disulfide MG/KG DRY WT. < 0.100 06/24/04 **EPA 8260B KHO** carbon tetrachloride <0.100 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHO chlorobenzene <0.100 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHO chloroethane < 0.500 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHO chloroform < 0.100 MG/KG DRY WT. 06/24/04 **EPA 8260B KHO** chloromethane < 0.500 MG/KG DRY WT. 06/24/04 EPA 8260B KHO cis-1,2-dichloroethene < 0.100 MG/KG DRY WT. 06/24/04 EPA 8260B KHO cis-1,3-dichloropropene < 0.100 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHO dibromochloromethane < 0.100 MG/KG DRY WT. 06/24/04 **EPA 8260B KHO** dibromomethane < 0.100 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHO dichlorodifluoromethane < 0.500 MG/KG DRY WT. 06/24/04 **EPA 8260B** KHO



Syracuse, NY 13206 ATTN: Mr. Paul Micciche

PO#: 10795

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COMPLIANCE WITH CONTRACT
DOCUMENTS
O'BRIEN & GERE ENGINEERS, INC.

Date 8/10/04 By BAK

PROJECT #: RECEIVED:

209572 06/17/2004

Site Address:

**FIFGP** 

GENERAL MOTORS DRIVE

SYRACUSE, NY

TEST PERFORMED	RESULTS	UNITS	DATE/TIME PERFORMED	METHOD NUMBER	PERFORMED BY
SAMPLE #: 372032 CLIENT SAMPLE ID:	FIFGP LOW	BERM	-	DATE SAMPLED:	06/17/04
Volatile - 8260					
ethylbenzene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
hexachlorobutadiene	<0:100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
iodomethane	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
isopropylbenzene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
methylene chloride	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
mtbe	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
naphthalene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
n-butylbenzene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
n-propylbenzene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
sec-butylbenzene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
styrene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
tert-butylbenzene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
tetrachloroethene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
toluene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
trans-1,2-dichloroethene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
trans-1,3-dichloropropene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
trans-1,4-dichloro-2-butene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
trichloroethene	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	кно
trichlorofluoromethane	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
vinyl acetate	<0.500	MG/KG DRY WT.	06/24/04	EPA 8260B	КНО
vinyl chloride	<0.200	MG/KG DRY WT.	06/24/04	EPA 8260B	КНО
xylene, m+p	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
xylene, o	<0.100	MG/KG DRY WT.	06/24/04	EPA 8260B	KHO
Soil Extraction for Volatiles			06/17/04	EPA 5035	КСН

Wendy J. Umberger Laboratory Director

06/24/2004 Print Date

All tests performed under NYS ELAP Laboratory Certification # 11375 unless otherwise stated. Report relates only to the samples as received by the laboratory and shall not be reproduced except in full, without written approval from Environmental Laboratory Services.



# Environmental LABORATORY SERVICES 7280Caswell Street, Hancock Air Park, North Syracuse, IN' 13212 (315) 458-8033 FAX (315) 458-0249 (800) 843-8255

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REVIEWED SOLELY FOR GENERAL
COMPLIANCE WITH CONTRACT
DOCUMENTS
O'BRIEN & GERE ENGINEERS, INC.

and Authorization for Analysis CHAIN OF CUSTODY RECORD

Billing Information Paul Miccicle	Quote No.	No.	, o	Telep	Telephone (315		432	1	5067	တ	:SS:	
Company Royal Environmental, Inc.	Job No.	9.		Fax	(315.		432	1 20	2000	+1+c*	Motion	۵.
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City. State. Zip 54R., NY 13206				<u>)</u>	Fax Results	sults	حود	St Mail		` 		
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52 6-17-04 2:29By Gris	SD FIFGP Low	ow Perm	2					2		1 PCBS	by M.	1. 8082
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Sampler Signature: Hund Muni 14	White - L	White - LABORATORY Canary - ACCOMPANIES RESULTS White - LABORATORY Please return completed form and all sample containers to Environmental Laboratory Services.	mpleted form	and all sa	Canary ample con	- ACC( tainers	OMPA to En	NIES R	ESULTS Ital Labo	ratory Services.		Pink - CLIENT 2217 FLS 202:0301

# ATLANTIC TESTING LABORATORIES, Limited

Syracuse 5866 State Route 32 Cierro, NY 13039

315/699-5281 (T) 315/699-3374 (F)

Date 8/10/04

REVIEWED

REVIEWED SOLELY FOR GENERAL

COMPLIANCE WITH CONTRACT DOCUMENTS O'BRIEN & GERE ENGINEERS, INC.

August 18, 2003

Reyal Environmental, Inc. P.O. Box 483 Fayetteville, New York 13066-0483

Atm: Mr. David Woodruff

Rc.

Laboratory Soil Testing

SPEDES Treatment System IRM and Former Drainage Swale IRM

Former Inland Fisher Guide Plan: (General Motors)

Syracuse, New York

ATL Report No. ST2318SL-05-(-8-03

Ladies/Gentlemen:

On July 21, 2003, a representative of Reval Environmental, Inc. delivered one bulk soil sample to our Cicero, New York facility for laboratory analysis. The sample was identified as follows:

ATL SAMI'LE NO.	SOURCE
ST2318S07	Stace Backhoe & Trucking, Inc.

The following tests were performed on the sample:

- ASTM D 422: Particle Size Analysis with Hydrometer
- ASTM D 4318: Atterberg Limits
- ASTM D 2216: Natura! Moisture Content
- ASTM D 698: Moisture-Density Relationship (Standard Proctor)
- ASTM D 1557: Moisture-Density Relationship (Modified Prector)
- ASTM D 5084: Measu sment of Hydraulic Conductivity of Saturated Porous Materials Using a

Flexible Wall Permeameter (Permeability)

The Particle Size Distribution Report, Compaction Test Reports, and Hydraulic Conductivity Fest Report to attached.

Please feel free to contact this office should you have any questions.

Respectfully submitted,

ATLANTIC TESTING LABORATORIES Limited

Thomas R. Bundle Division Manager Syracuse Testing Division Condicional anticlesting com

MRP/TRB/mm Enclosures

**DOCUMENTS** O'BRIEN & GERE ENGINEERS, INC.
Date 3/10/04 By BAK

# Particle Size Distribution Report

Project: GM Plant, Syracuse, New York

Report No.: ST2318SL-05-08-03

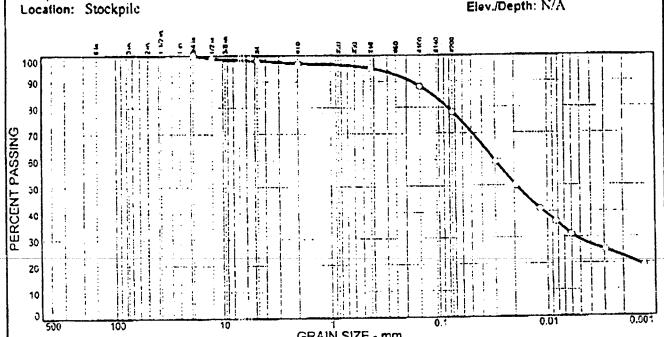
Client: Royal Environmental, Inc.

Date: 08/08/03

Sample No: ST2318S07

Source of Sample: Stace Backhoo & Trucking, Inc.

Elev./Depth: N/A



			6	SICKIN SIZE	- 11/11/14		· · · · · · · · · · · · · · · · · · ·
	% GR	AVEL.		% SANT	)	% FIN	ES
% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0	0	2	Ti	2	18	1 49	29

	SIEVE	PERCENT	SPEC."	OUT OF
١	SIZE	FINER	PERCENT	(: > EC. (X)
	3/4 in. 1/2 in. #4 #10 #40 \$100 #200	100 99 93 97 95 83 78		
		1	i	! :

	Atterberg Limits	<b></b>
PL= 14	LL= 23	PI= 9
D <sub>85</sub> = 0.119 D <sub>30</sub> = 0.0055 C <sub>u</sub> =	Coefficients De0= 0.0310 D15= Cc=	D <sub>50</sub> = 0.0195 D <sub>10</sub> =
uscs= CL	Classification AASHTC	) <b>=</b>

(no specification provided)

ATLAHTIC TESTING LABORATORIES, LIMITED

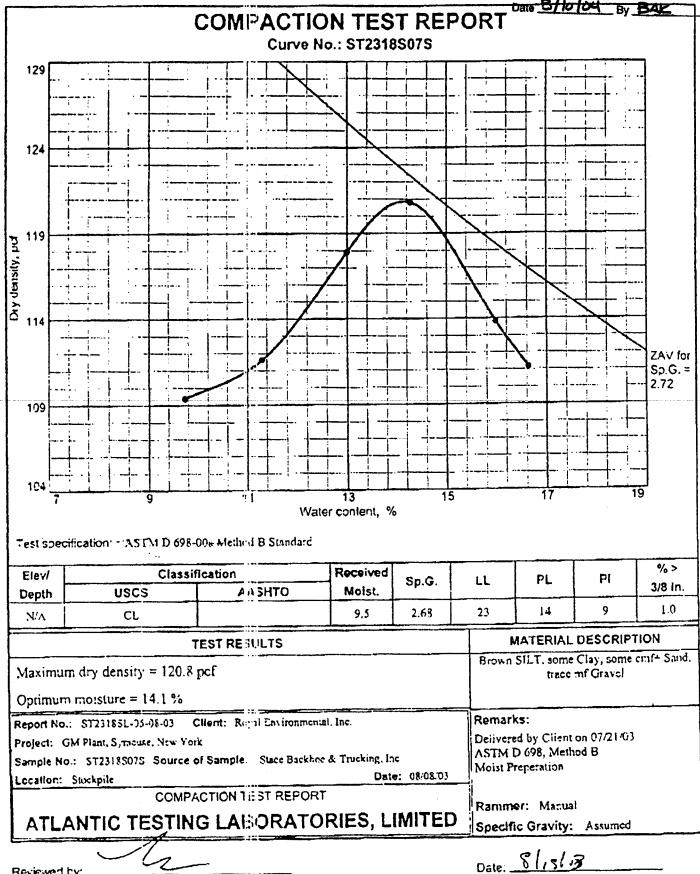
Reviewed by:

Date: 8/15/3

REVIEWED REVIEWED SOLELY FOR GENERAL

COMPLIANCE WITH CONTRACT **DOCUMENTS** 

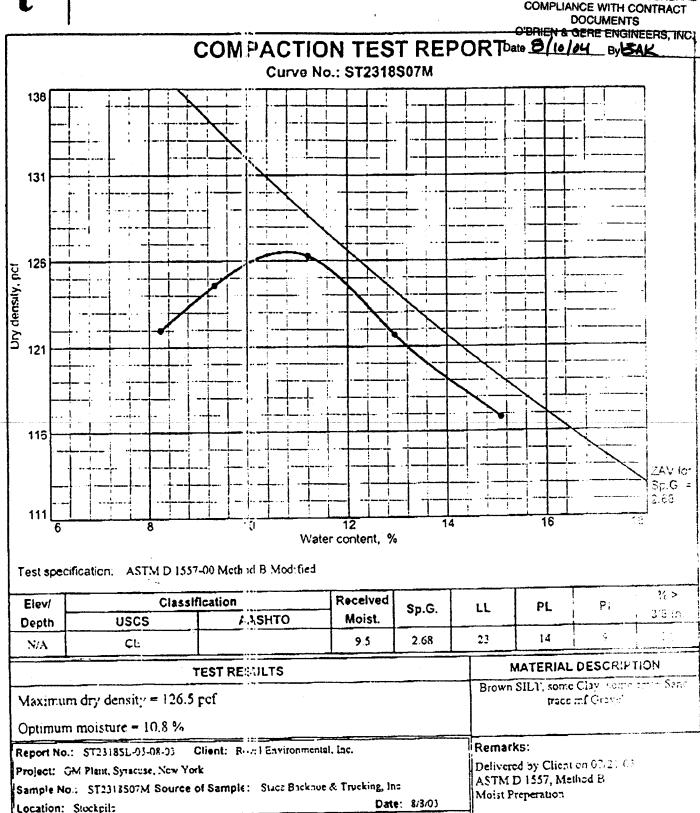
O'BRIEN & GERE ENGINEERS, INC.



Reviewed by: \_

REVIEWED REVIEWED SOLELY FOR GENERAL

COMPLIANCE WITH CONTRACT



Reviewed by

COMPACTION "EST REPORT

ATLANTIC TESTING LABORATORIES, LIMITED

Specific Gravity: Assumed

Rammer: Manual

# ATLANTIC TESTING LABORATORIES, Limited

REVIEWED SOLELY FOR GENERAL HYDRAULIC CONDUCTIVITY TEST REPORT No. \$7231851-05-08-03 COMPLIANCE WITH CONTRACT **DOCUMENTS** 

ASTM 7: 5084(using a flexible wall permeameter)

O'BRIEN & GERE ENGINEERS, INC. Date \$/10/04

### PROJECT INFORMATION

Royal Environmental, Inc.

Project:

GM Plant

Syracuse, New York

Date:

August 18, 2003

Chent Delivered by:

July 21, 2003

### SAMPLE INFORMATION

ATL Sample No.:

ST2318S07

Client Identification:

Date Delivered:

N/A

Sample Location:

Stace Backhoe & Trucking, Inc.

Sample Type:

Bulk (Ret and land

Soi' Classification:

Low Permeability Enil

PARAMETERS.

INITIAL

108.7

FINAL Weight Unit

110.4

Permeant Liquid:

Water

Dry Unit Weight (pol):

(pefic

D :′

Sample Height (in.):

4.98 17.5 B Value (%):

Sample Height (in.): Moisture Content (%): Sample Diameter (in.):

5.00 14.2 2.81

Moisture Content (%): Sample Diameter (in.)

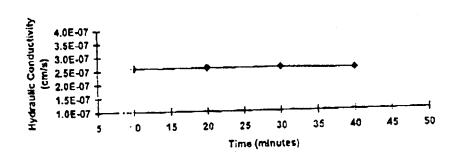
2.78

Test Method: Compaction Method:

### TEST DATA

Average Back Pressure (ps:)	Average Confining Pressure (psi)	Averrage Differential Hand (psi)	Maximum Effective Stress (psi)	Minimum Effective Stress (psi)	Range of Hydraulic Gradient (psi)	V eroly K (arrisea)
50.0	55.0	3.0	7.5	7.5	28.4 to 28.4	26%

### HYDRAULIC CONDUCTIVITY vs. TIME



REMARKS

Remold Parameters Specified (approximate): 90 % of Standard Proctor @ Optimum Moisture Content

Date: 8/18/17



Syracuse

5866 State Route 31 Cicero, New York 13039

(315) 699-5281 (T)

(315) 699-3374 (F)

RESUBMIT

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT

**DOCUMENTS** 

O'BRIEN & GERE ENGINEERS, INC

TRANSMITTAL

July 6, 2004

Mr. David Woodruff Royal Environmental, Inc. P.O. Box 483 Fayetteville, New York 13066-0483

Re:

Soil Testing

SPEDES Treatment System IRM and

Former Drainage Swale IRM

Former Inland Fisher Guide Plant (General Motors)

Syracuse, New York ATL File No. ST2318

Enclosed is one copy of the following test report:

ST2318S-21-06-04	Daily Soil Report	June 10, 2004	(Thursday)
ST2318S-22-06-04	Daily Soil Report	June 11, 2001	(Friday)
ST2318S-23-06-04	Daily Soil Report	June 18, 2004	(Friday)
ST2318S-24-06-04	Daily Soil Report	July 1, 2004	(Thursday)

Please contact our office should you have any questions or if we may be of further service.

Sincerely,

ATLANTIC TESTING LABORATORIES. Limited

Thomas R. Bundle **Division Manager** 

tbundle@atlantictesting.com

TRB/tam

Enclosure

# ATLANTIC TESTING LABORATORIES, Limited



### DAILY SOIL REPORT NUMBER ST2318S-21-06-04

Page 1 of 1

CLIENT:

Royal Environmental

June 10, 2004 DATE:

PROJECT:

SPEDES Treatment System IRM and

(Thursday)

Former Drainage Swale IRM

Former Inland Fisher Guide Plant (General Motors)

ATL REPRESENTATIVE:

S. Dana

Syracuse, New York

CONTRACTOR: Royal Environmental

**NUCLEAR DENSITY GAUGE DATA** 

Moisture Standard: 600

Density Standard:

2644

Troxler 3430 Gauge Model No.: Gauge Serial No.: 33267

### FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the Brown cmf Sand, some cmf Gravel, some Silt / Clay (ATL sample # ST2318506) supplied by Stace Backhoe & Trucking, Inc., placed and compacted as utility pole backfill material.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 698.

### IN-PLACE FIELD DENSITY TEST RESULTS

Test			Optimum Moisture Content	Maximum Dry Density	Field Wet Density	Field Moisture Content	Field Dry Density	Compaction
No.	Test Location	Elevation	(%)	(pcf)	(pcf)	(%)	(pcf)	(%)
			Niagara Mo	hawk Pole #1				·
1	5' W of Pole #NM 3-1/2	-4' BTSB	10.8	122.6	130.6	6.6	122.4	100
2	5' E of Pole #NM 3-1/2	-4' BTSB	10.8	122.6	130.7	7.6	121.5	99
3	5' S of Pole #NM 3-1/2	-2' BTSB	10.8	122.6	125.9	6.4	118.4	97
4	5' N of Pole #NM 3-1/2	-2' BTSB	10.8	122.6	129.5	7.0	120.9	99

### REMARKS

Test elevations are referenced from the top of subgrade.

Note: Cobble ranging from 3" to 10" in diameter noted in backfill material.

RESUBMIT REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT **DOCUMENTS** 

O'BRIEN & GERE ENGINEERS, INC

Reviewed by: Date: 7/7/04	

PLEASE CLARIFY IF OUT OF SPECIFICATION MATERIAL HAS BEEN PLACED BECAUSE IT APPEARS THAT FROM THIS REPORT IT HAS BY COMPARING THE DESCRIPTION OF THE HOTERIAL TO THE LOW PERMEABILITY PHYSICAL CHARACTERISTICS



### DAILY SOIL REPORT NUMBER ST2318S-22-06-04

Page 1 of 1

CLIENT:

Royal Environmental

June 11, 2004 DATE:

PROJECT:

SPEDES Treatment System IRM and

ATL REPRESENTATIVE:

(Friday)

D. Wells

Former Drainage Swale IRM

Former Inland Fisher Guide Plant (General Motors)

Syracuse, New York

CONTRACTOR: Royal Environmental

**NUCLEAR DENSITY GAUGE DATA** 

596 Moisture Standard:

Density Standard:

2626

Gauge Model No.:

Gauge Serial No.:

Troxler 3430 33267

### FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the Brown cmf Sand, some cmf Gravel, some Silt / Clay (ATL sample # ST2318S-06) supplied by Stace Backhoe & Trucking, Inc. placed and compacted as utility pole backfill material.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 698.

### IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
				hawk Pole #2		* · · · · · · · · · · · · · · · · · · ·		
1	4.5 S of N, 7' E of W end	-3'	10.8	122.6	122.9	7.1	114.8	94
2	Retest of #1	-3'	10.8	122.6	135.4	2.7	128.1	104
3	2.5' N of S, 8' W of E	-3'	10.8	122.6	125.2	5.2	119.0	97
4	7' S of N, 8' E of W	-2'	10.8	122.6	125.9	5.8	119.0	97
5	6' S of N, 4' W of E	-2'	10.8	122.6	126.8	5.3	120.4	98

### REMARKS

RESUBMIT

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT

DOCUMENTS

O'BRIEN & GERE ENGINÉERS, INC

Note: +3" Cobbles, trace organics observed in backfill material.

Test elevations are referenced from the top of subgrade.

PLEASE LLACIFY IF OUT OF SPECIFICATION MATERIAL HAS BEEN PLUCED BECAUSE IT APPEARS THOT FROM THIS REPORT IT HAS BEEN BY COMPARING THE DESCRIPTION OF THE MATERIAL TO THE LOW PERMEABILITY PHYSICAL CHARACTERISTICIS

	$\sim$ $\sim$ $\sim$ $\sim$ $\sim$			
	Linoh du	Date:	917104	
Reviewed by:	- Lancyn aus	Date:		



### DAILY SOIL REPORT NUMBER ST2318S-23-06-04

Page 1 of 1

CLIENT:

Royal Environmental

June 18, 2004 DATE:

PROJECT:

SPEDES Treatment System IRM and

ATL REPRESENTATIVE:

(Friday)

AJ Snyder

Former Drainage Swale IRM

Former Inland Fisher Guide Plant (General Motors)

Syracuse, New York

CONTRACTOR: Royal Environmental

**NUCLEAR DENSITY GAUGE DATA** 

724 Moisture Standard:

Density Standard:

2753

Gauge Model No.: Gauge Serial No.:

Troxler 3430 33275

#### FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the Brown Clay / Silt, some cmf Gravel, some cmf Sand (ATL sample #ST2318S-03) placed and compacted as utility pole backfill material.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 698.

### IN-PLACE FIELD DENSITY TEST RESULTS

Test			Optimum Moisture Content	Maximum Dry Density	Field Wet Density	Field Moisture Content	Field Dry Density	Compaction	
No.	Test Location	Elevation	(%)	(pcf)	(pcf)	(%)	(pcf)	(%)	
	Niagara Mohawk Poles #2 and #3-1/2								
1	5' N, 3' E of pole 2	-1.5	10.6	122.8	134.9	11.1	121.4	99	
2	4' S, 3' W of pole 2	-1.5	10.6	122.8	143.1	8.8	131.5	107	
3	7' S, 4' W of pole 3-1/2	-1	10.6	122.8	126.5	9.1	116.0	95	
4	5' N, 4' E of pole 3-1/2	-1	10.6	122.8	130.8	8.8	120.2	98	

#### .REMARKS

Test elevations are referenced from top of subgrade.

RESUBMIT REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT **DOCUMENTS** 

A GERE ENGINEERS, ING

	$\bigcap_{\alpha} A \cap A \cap A$	-1-	1 - 11
Reviewed by:	- Janopa des	Date:	104



**DAILY SOIL REPORT NUMBER ST2318S-24-07-04** 

Page 1 of 1

CLIENT: PROJECT: Royal Environmental

SPEDES Treatment System IRM and

Former Drainage Swale IRM

Former Inland Fisher Guide Plant (General Motors)

Syracuse, New York

DATE: July 1, 2004 ATL REPRESENTATIVE:

(Thursday) RESUBMIT

S. Dana REVIEWED SOLELY FOR GENERAL

COMPLIANCE WITH CONTRACT

**DOCUMENTS** 

A GERE ENGINEERS, INC

CONTRACTOR: Royal Environmental

**NUCLEAR DENSITY GAUGE DATA** 

Moisture Standard:

591

Gauge Model No.: Gauge Serial No.:

Troxler 3430 33267

Density Standard: 2601

#### FIELD INFORMATION

At the request of Mr. David Woodruff, representing Royal Environmental, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the Brown Clay / Silt, some coarse to fine Gravel, some coarse to fine Sand (ATL sample # ST2318S-03) placed and compacted as utility pole backfill material.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 698.

### IN-PLACE FIELD DENSITY TEST RESULTS

			Optimum	Maximum	Field	Field	Field	
			Moisture	Dry	Wet	Moisture	Dry	
Test			Content	Density	Density	Content	Density	Compaction
No.	Test Location	Elevation	(%)	(pcf)	(pcf)	(%)	(pcf)	(%)
		Niagara	Mohawk Po	ole #3-02 and l	Pole #5			
1	5' W of Pole #3-02	-12" TSG	10.6	122.8	129.5	8.1	119.8	98
2	5' S of Pole #3-02	-12" TSG	10.6	122.8	128.9	8.0	119.2	97
3	5' W of Pole #5	-12" TSG	10.6	122.8	128.5	8.3	118.5	97
4	3' S of Pole #5	-12" TSG	10.6	122.8	128.7	8.0	119.0	97
5	2' S of Pole #3-02	TSG	10.6	122.8	129.4	8.5	119.6	97
6	2' NW of Pole #3-02	TSG	10.6	122.8	129.1	8.2	119.1	97
7	2' NW of Pole #5	TSG	10.6	122.8	128.9	8.4	119.4	97
8	2' NE of Pole #5	TSG	10.6	122.8	128.7	8.1	118.9	97

#### REMARKS

Test elevations are references from top of subgrade.

Two (2) soil samples were collected and returned to our Syracuse facility for Undisturbed Laboratory Triaxial Permeability Testing in accordance with ASTM D 5084.

A representative of O'Brien & Gere was informed of all observations and test results prior to departure from the site.

	_			
			1 1	
	1 2 2 1		7/2/04	
Reviewed by:	Turde land	Date:	714104	
Reviewed by.	·······································			

4966/34126 #2

From:

<Woodruffdav@aol.com>

To: Date: <a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a hre

Subject:

Re: Low Permeability submittal

Brad:

Ed Rahn instructed Royal's operator, Rick Burghdorf, to remove any cobbles from the low permeability material when he observed that the material contained a very small quantity of the cobbles. Mr. Rahn reiterated his request to me when I visited the site to observe progress. I instructed Royal's crew to remove any cobbles found in the material.

The Royal work crew removed any cobbles from the fill as directed.

When I returned to the site, I observed the crew transferring the removed cobbles to the soil staging area. Mr. Burghdorf confirmed to me that all cobbles had been removed from the material.

Should you require more information, please contact me.

David Woodruff
Operations Manager
Royal Environmental, Inc.
Phone 315-463-2310
Fax 315-432-5000

From:

"Susan Benjamin" <slbenjam@gw.dec.state.ny.us>

To:

<a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a href="mailto:kubiakba@obg.com"><a hre

Date: Subject:

Resem Tow-penneability/materials analytical state.

John and I both find the noted low-permeability material to be acceptable for use around the poles.
-Sue

>>> "Bradley Kubiak" <kubiakba@obg.com> 08/03/04 01:16PM >>>

Please find attached the low permeability material analytical data

Royal has submitted for the Former Landfill IRM. This material has been

placed around the 34.5 kV and 115 kV single poles within the landfill area and is to be placed about the 115 kV H-structure clean areas once they are replaced.

There are a few metals above TAGM 4046 recommended soil cleanup objectives, but they are generally associated with a clay material. I am in the opinion that this material is acceptable for use in the IRM.

Please review and let me know what your opinion is on this material.

Very Truly Yours,

Bradley A. Kubiak, P.E. Project Engineer O'Brien & Gere Engineers, Inc. 5000 Brittionfield Parkway PO Box 4873 Syracuse, New York 13221 Phone: (315) 437-6100 Ext. 2384

Fax: (315) 463-7554

E-Mail: kubiakba@obg.com

This email, including any attachment(s) to it, is confidential and intended solely for the use of the individual or entity to which it is addressed. If you have received this email in error please notify O'Brien & Gere (OBG) by replying to the original email and deleting any emails or attachments that you have received. Please note that any views or opinions presented in this email are solely those of the author and do not represent those of OBG. OBG screens all outgoing emails and attachments for viruses, however, OBG cannot accept liability for any damage caused by any virus transmitted by this email. The recipient should check this email and any attachments for the presence of viruses.



## PROJECT RESUBMITTAL

Project Name:

Former Landfill IRM

Original Submittal No.:

014

Subject:

Former Landfill IRM - Submittal for Technical Specification

Section 02297 (Low Permeability Material)

Project No.:

60709-5

Date:

September 29, 2004

Attached you will find the Affidavit from Owner of the Source. The affidavit now explicitly states that the low permeability material will be imported from Stace.

# STACE BACKHOE & TRUCKING, INC.

Backhoe Service - Bulldozer - Sand - Gravel - Septic Tank 2373 State Route 69, Camden, NY 13316 (315) 245-0370

### AFFIDAVIT OF CLEAN MATERIAL

	August 18, 2004
	REVIEWED
O'Brien & Gere Engineers Inc.	REVIEWED SOLELY FOR GENERAL
5000 Brittonfield Parkway	COMPLIANCE WITH CONTRACT DOCUMENTS
East Syracuse, NY 13057	O'BRIEN & GERE ENGINEERS, INC.
	Date 10/7/04 By BAK
Re: Landfill Cap IRM Project, Forme	er Inland Fisher Guide
Facility - Fill Material Certificat	tion
To Whom it May Concern:	
This is to certify that the low per	rmeability backfill material
supplied to Royal Environmental, In	nc. for Landfill IRM
activities performed at the Former	Inland Fisher Guide Facility
was obtained from the Central Square	re Embankment property of
Stace Backhoe & Trucking Inc. The	material was not obtained
from a known federal, state, local	or private contaminated land
site.	
To the best of my knowledge, the lo	ow permeability backfill
material supplied is clean and free	e from hazardous contaminates.
	A James Lace
	H. James Stace
	President
	Stace Backhoe & Trucking Inc.



## PROJECT SUBMITTAL

**Project Name:** 

Former Landfill IRM

Submittal No.:

038

Subject:

Former Landfill IRM - Submittal for Project Specification 02297

Project No.:

60709-5

Date:

February 8, 2005

Attached you will find a laboratory testing report for permeability (ASTM D5084), performed on low permeability material (undisturbed Shelby tube sample) obtained from Hot Spot location TB-02-03A, Landfill FIFGP.

### REVIEWED

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 2/17/05 By WWK



Syracuse 5866 State Route 31 Cicero, New York 13039 (315) 699-5281 (T) (315) 699-3374 (F)

#### **TRANSMITTAL**

February 1, 2005

Mr. David Woodruff Royal Environmental, Inc. 1 General Motors Drive Syracuse, New York 13206 REVIEWED

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 2/17/05 By NUK

Re:

Laboratory Soil Testing

Former Landfill IRM

Former Inland Fisher Guide Plant (General Motors)

Syracuse, New York ATL File No.: ST2318

Enclosed is one copy of the following test report:

ST2318SL-08-01-05 Hydraulic Conductivity Test Report

January 31, 2005 (Monday)

Please contact our office should you have any questions or if we may be of further service.

Sincerely,

ATLANTIC TESTING LABORATORIES, Limited

David J. Wells

**Division Manager** 

dwells@atlantictesting.com

DJW/tam

Enclosure

### HYDRAULIC CONDUCTIVITY TEST REPORT No. ST2318SL-08-01-05 ASTM D 5084(using a flexible wall permeameter)

#### PROJECT INFORMATION

Client:

Royal Environmental, Inc.

Project:

**GM Plant** 

Syracuse, New York

Date:

January 31, 2005

Delivered by:

Client

Date Delivered:

January 20, 2005

#### SAMPLE INFORMATION

**FINAL** 

ATL Sample No.:

ST2318S08

Client Identification:

N/A

Sample Location:

Hot Spot TB-02-03A, Landfill FIFGP

Sample Type:

Shelby Tube

Soil Classification:

Dry Unit Weight (pcf):

Moisture Content (%):

Sample Diameter (in.):

Sample Height (in.):

Low Permeability Material (LPM-FIFGP)

INITIAL

52.6 3.91

75.2

2.86

Dry Unit Weight (pcf): Sample Height (in.):

Moisture Content (%): Sample Diameter (in.): 42.8 4.38

92.2 2.90 **PARAMETERS** 

Water Permeant Liquid: 96

B Value (%): Test Method:

A

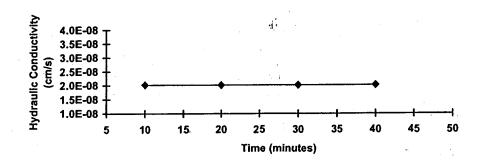
Compaction Method:

Unknown

#### **TEST DATA**

50.0 55.0 3.8 7.2 7.0 24.5 to 29.0 2.0 x 10-8	A verage Back	Average	Average	Maximum	Minimum	Range of	Average
	Pressure	Confining	Differential	Effective Stress	Effective Stress	Hydraulic	K
	(psi)	Pressure (psi)	Head (psi)	(psi)	(psi)	Gradient (psi)	(cm/sec)
	50.0	55.0	3.8	7.2	7.0	24.5 to 29.0	2.0 x 10 <sup>-8</sup>

#### HYDRAULIC CONDUCTIVITY vs. TIME



REMARKS

Date: 131(05 Reviewed By:

REVIEWED

REVIEWED SOLELY FOR GENERAL **COMPLIANCE WITH CONTRACT** 

**DOCUMENTS** 

O'BRIEN & GERE ENGINEERS, INC.



## **PROJECT SUBMITTAL**

Project Name:

Former Landfill IRM

Submittal No.:

040

Subject:

Former Landfill IRM - Submittal for Project Specification 02297

Project No.:

60709-5

Date:

February 18, 2005

Attached you will find laboratory testing reports in-place field density testing (12-13-2004), and particle size distribution (11-30-2004), performed on low permeability material.

REVIEWED

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS

O'BRIEN, GERE ENGINEERS, INC.

Date 2/23/05 By MUK



Syracuse 5866 State Route 31 Cicero, New York 13039 (315) 699-5281 (T) (315) 699-3374 (F)

#### TRANSMITTAL

November 30, 2004

Mr. David Woodruff Royal Environmental, Inc. 1 General Motors Drive Syracuse, New York 13206

REVIEWED

SOLELY FOR

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT

DOCUMENTS

O'BRIEN & GERE ENGINEERS, INC.

Date 2/23/05 By NMK

Re:

Laboratory Soil Testing

Former Landfill IRM

Former Inland Fisher Guide Plant (General Motors)

Syracuse, New York ATL File No.: ST2318

Enclosed is one copy of the following test report:

ST2318SL-07-11-04 Partic

Particle Size Distribution Report

November 29, 2004

(Monday)

Please contact our office should you have any questions or if we may be of further service.

Sincerely,

ATLANTIC TESTING LABORATORIES, Limited

David J. Wells

Division Manager

dwells@atlantictesting.com

DJW/tam

Enclosure.

# ATLANTIC TESTING LABORATORIES, LIMBER SOLELY FOR GENERAL

COMPLIANCE WITH CONTRACT **DOCUMENTS** 

O'BRIEN & GERE ENGINEERS, INC.

# Particle Size Distribution Report2/23/05 NMK

Project: Former Inland Fisher Guide Plant, Syracuse, NY

Report No.: ST2318SL-07-11-04

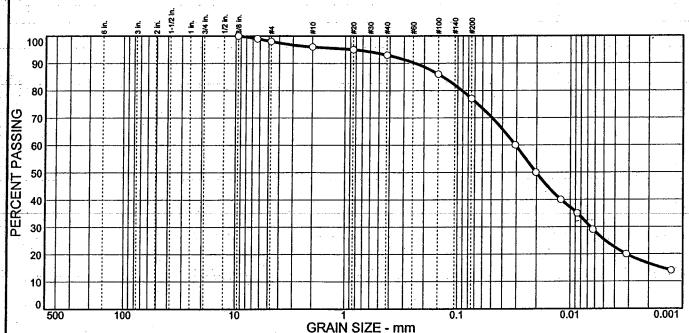
Client: Royal Environmental, Inc.

Date: 11/29/04

Sample No: ST2318S09 Location: Stockpile

Source of Sample: Stace Backhoe & Trucking, Inc.

Elev./Depth: N/A



W 00001 F0	% GR	% GRAVEL % SAND			)	% FINES		
% COBBLES	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY	
0	0	2	2	3	16	52	25	

SIEVE	PERCENT	√SPEC.*	OUT OF
SIZE	FINER	PERCENT	SPEC. (X)
3/8 in. 1/4 in. #4 #10 #20 #40 #100 #200	100 99 98 96 95 93 • 86 77	1	

Soil Description							
Brown SILT, sor	ne Clay, some cmt+ S	Sand, trace fine Gravel					
	:						
	Atterberg Limits	·					
PL= 15	LL= 18	PI= 3					
	Coefficients						
$D_{85} = 0.137$	$D_{60} = 0.0307$	$D_{50} = 0.0203$					
$D_{30}^{2} = 0.0066$	$D_{15}^{-} = 0.0015$	D <sub>10</sub> =					
ou-	O <sub>C</sub> -						
11000 34	<u>Classification</u>	_					
USCS= ML	AASHT	)=					
	Remarks						
Sampled by J. Casler on 11/15/04							
ASTM D 422 with hydrometer							
ASTM D 4318							

(no specification provided)

ATLANTIC TESTING LABORATORIES, LIMITED

Reviewed by: .

Date: 1//30/04



Syracuse 5866 State Route 31 Cicero, New York 13039

(315) 699-5281 (T) (315) 699-3374 (F)

#### **TRANSMITTAL**

December 13, 2004

Mr. David Woodruff Royal Environmental, Inc. 1 General Motors Drive Syracuse, New York 13206

Re: Soil Testing

SPEDES Treatment System IRM and Former Drainage Swale IRM Former Inland Fisher Guide Plant (General Motors)

Syracuse, New York
ATL File No.: ST2318

REVIEWED

REVIEWED SOLELY FOR GENERAL

**COMPLIANCE WITH CONTRACT** 

**DOCUMENTS** 

O'BRIEN & GERE ENGINEERS, INC.

ato 2/23/05 By MUR

Enclosed is one copy of the following test report:

ST2318S-31-12-04

Daily Soil Report

December 10, 2004

(Friday)

Please contact our office should you have any questions or if we may be of further service.

Sincerely,

ATLANTIC TESTING LABORATORIES, Limited

David J. Wells

**Division Manager** 

dwells@atlantictesting.com

DJW/tam

Enclosure

#### DAILY SOIL REPORT NUMBER ST2318S-31-11-04

CLIENT:

Royal Environmental

DATE: December 10, 2004 (Friday)

PROJECT:

SPEDES Treatment System IRM and

ATL REPRESENTATIVE:

S. Dana

Former Drainage Swale IRM

Former Inland Fisher Guide Plant (General Motors)

Syracuse, New York

CONTRACTOR: Royal Environmental

**NUCLEAR DENSITY GAUGE DATA** 

Moisture Standard: 618

Density Standard:

2543

Gauge Model No.: Gauge Serial No.:

Troxler 3430 35440

FIELD INFORMATION

At the request of Mr. Paul Micciche, representing Royal Environmental, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the Brown Silt, some Clay, some cmf+ Sand, trace mf Gravel (ATL Report No.: ST2318S-07), imported by Stace Backhoe & Trucking, Inc., placed and compacted as lightpole backfill material.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 698.

#### IN-PLACE FIELD DENSITY TEST RESULTS

			Optimum	Maximum	Field	Field	Field	
			Moisture	Dry	Wet.	Moisture	Dry	
Test			Content	Density	Density	Content	Density	Compaction
No.	Test Location	Elevation	(%)	(pcf)	(pcf)	(%)	(pcf)	(%)
NE Corner of Parking Lot								
1	20' E of Pole #2	0.0'	14.1	120.8	135.1	14.1	118.1	98

#### REMARKS

Test elevations are references from top of subgrade.

Mr. Paul Micciche representing Royal Environmental was informed of all observations and test results prior to departure from the site.

#### REVIEWED

REVIEWED SOLELY FOR GENERAL COMPLIANCE WITH CONTRACT **DOCUMENTS** 

O'BRIEN & GERE ENGINEERS, INC.

	( ) a 10		A Andrew	
Reviewed by:	- Laugh Is	Date:	12/14/04	<u> </u>

