



CONSTRUCTION CERTIFICATION REPORT WEST PLANT AREA RESOURCE CONSERVATION AND RECOVERY ACT CORRECTIVE ACTION INTERIM MEASURES

GM CET Bedford Facility
105 GM Drive
Bedford, Indiana

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Prepared for: General Motors LLC

Disclaimer - Please note, Conestoga-Rovers & Associates (CRA) changed its name to GHD on July 1, 2015. This document was originally submitted under the CRA name prior to this date. However, in the interest of continuity, the CRA name will remain on this document after July 1, 2015.

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List of Acronyms

AAQMP	Ambient Air Quality Monitoring Plan
Agreement	Performance Based Corrective Action Agreement
AOI	Area of Interest
AOI 18	Area Affected by the Henry System Discharge
AOI 21-1	AOI 21 Area 1, Former drainage valley under hourly parking lot
AOI 21-2	AOI 21 Area 2, Former drainage valley northeast of piston and office buildings
bgs	below ground surface
BOL	Bill of Lading
CA	Corrective Action
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CET	Castings, Engines and Transmissions
cm/s	centimeters per second
CQA	Construction Quality Assurance
CRA	Conestoga-Rovers & Associates, Inc.
ENVIRON	ENVIRON International Corporation
Facility	GM CET Bedford Facility
ft	feet or foot
GM	General Motors LLC
GRI	Geosynthetic Research Institute
HASP	Health and Safety Plan
IDEM	Indiana Department of Environmental Management
IM	Interim Measure
INDOT	Indiana Department of Transportation
LLDPE	Linear Low Density Polyethylene
mg/kg	milligram per kilogram
MLC	Motors Liquidation Company
ND	non-detect
NFA	No Further Action
OBG	O'Brien & Gere
OM&M	Operation, Maintenance & Monitoring
PCB	polychlorinated biphenyl
PSI	Professional Services, Inc.
psi	pounds per square inch
PUF	Polyurethane Foam
QA	Quality Assurance

List of Acronyms

QAPP	Quality Assurance Project Plan
RACER	Revitalizing Auto Communities Environmental Response
RCRA	Resource Conservation and Recovery Act
Report	Construction Certification Report for the West Plant Area Interim Measure
RFI	RCRA Facility Investigation
SES	Sevenson Environmental Services, Inc.
SHHRA	Streamlined Human Health Risk Assessment
SSC	Site Source Control
SVOC	Semi-Volatile Organic Compound
TRI	TRI/Environmental, Inc.
TSCA	Toxic Substances Control Act
TSP	Total Suspended Particulate
U.S. Bulk	U. S. Bulk Transport, Inc.
U.S. EPA	United States Environmental Protection Agency
U.S. DOT	United States Department of Transportation
$\mu\text{g}/\text{m}^3$	microgram per cubic meter
UST	Underground Storage Tank
Vault	East Plant Area TSCA Permitted Landfill Vault
VOC	Volatile Organic Compound
WTP	Water Treatment Plant

Section 1.0 Introduction

This Construction Certification Report (Report) has been prepared by Conestoga Rovers & Associates, Inc. (CRA) on behalf of General Motors LLC (GM) for the West Plant Area Resource Conservation and Recovery Act (RCRA) Corrective Action (CA) Interim Measures (IM), located at the Bedford Castings, Engines and Transmissions (CET; formerly Powertrain) Facility (Facility) in Lawrence County, Bedford, Indiana (U.S. EPA ID #IND006036099). The work associated with the remediation of the West Plant Area was outlined in the United States Environmental Protection Agency (U.S. EPA) approved West Plant Area IM Work Plan dated April 23, 2007. The work was completed in accordance with the RCRA Corrective Action activities being conducted under the Performance Based Corrective Action Agreement (Agreement; effective March 20, 2001, as amended October 1, 2002, March 29, 2007, and May 9, 2008). This Report has been prepared pursuant to an Administrative Order on Consent between GM and U.S. EPA (Docket #RCRA-05-2014-0011).

The Facility is located at 105 GM Drive in the City of Bedford, Shawswick Township, Lawrence County, Indiana on approximately 152.5 acres of land on either side of GM Drive (excluding GM-owned residential properties). The overall Facility location is presented on Figure 1.1. The West Plant Area includes the contiguous plant property west of GM Drive. The West Plant Area, as well as the East Plant Area, the on-Site Toxic Substances Control Act (TSCA) Landfill Vault (Vault), and identified Areas of Interest (AOIs) are presented on Figure 1.2.

This Report documents the completion of the IM activities, in accordance with the West Plant IM Work Plan (CRA, April 23, 2007). The IM, implemented between July 2008 and September 2011, included the prescriptive excavation of polychlorinated biphenyl (PCB) impacted soil, permanent abandonment of select storm sewer pipes, and removal of a catch basin (MH-ST-43) in the northeast corner of the West Plant Area (refer to Figure 1.2).

1.1 Report Organization

This Report is organized as follows:

- i) Section 2.0 presents information regarding the location and a summary of investigative/delineation sampling and Facility characterization activities conducted in the MH-ST-43 Catch Basin area, AOI 13, AOI 18, AOI 21-1, and AOI 21-2
- ii) Section 3.0 provides a summary of the IM implementation activities that were selected for the West Plant Area

- iii) Section 4.0 presents a summary of site preparation including environmental, fugitive dust, erosion, and surface water/stormwater control activities implemented as part of the West Plant Area IM
- iv) Section 5.0 presents a summary of the activities conducted to implement the IM for the MH-ST-43 Catch Basin and the associated storm sewer piping
- v) Section 6.0 presents a summary of the activities conducted to implement the IM for AOI 18
- vi) Section 7.0 presents a summary of the activities conducted to implement the IM for AOI 21-1
- vii) Section 8.0 presents a summary of the activities conducted to implement the IM for AOI 21-2
- viii) Section 9.0 presents a summary of the activities conducted to implement the IM for AOI 13
- ix) Section 10.0 provides a brief summary of the anticipated long term operation, maintenance and monitoring activities related to West Plant Area IMs
- x) Section 11.0 presents references cited in this Report
- xi) Section 12.0 provides certification of the construction completion

Section 2.0 Project Background

The Current Conditions Report (CRA, May 25, 2001) described the current and historical conditions at the Facility resulting from treatment, storage, or disposal of hazardous waste or hazardous constituents. Twenty-four (24) AOIs were identified at the Facility (refer to Figure 1.2). AOIs were identified based on review of available files, interviews with Facility personnel, historical investigations and remedial actions, and Facility inspections.

The RCRA Facility Investigation (RFI) Work Plan (CRA, October 29, 2001) and subsequent amendments outlined the investigative work to be implemented at the identified AOIs in order to characterize the nature and extent of releases of hazardous waste and/or hazardous constituents. Investigation work plans specific to those AOIs located in the West Plant Area were presented in RFI Work Plan Addendum No. 3 (CRA, March 23, 2004), RFI Work Plan Addendum No. 7 (CRA, November 23, 2004), and RFI Work Plan Addendum No. 10 (CRA, August 19, 2005). A complete summary of the investigation and results are presented in the Technical Memorandum - RFI Results for Addenda No. 3-7 (CRA, May 3, 2007) and in the Request for No Further Action (NFA) Letter (General Motors Corporation, February 4, 2008). Sample collection, laboratory analysis, and data validation were completed in accordance with

the site-specific Quality Assurance Project Plan (QAPP; CRA, November 5, 2001) and subsequent revisions (December 12, 2004 and July 25, 2006).

A Streamlined Human Health Risk Assessment (SHHRA) was prepared by ENVIRON International Corporation (ENVIRON) to support a determination of whether IMs were warranted within the West Plant Area (ENVIRON, April 23, 2007). The soil data collected during the RFI investigations were evaluated to assess the significance of potential exposures under current and reasonably expected future land use. The conservative estimates of cumulative cancer risks and non-cancer hazard indices under reasonable maximum exposure for all receptors were within U.S. EPA-established limits, except for exposures of routine workers to surface soil at the Area Affected by the Henry System Discharge (AOI 18), Former Drainage Valley under the Hourly Parking Lot (AOI 21-1), and Former Drainage Valley northeast of the Piston and Office Buildings (AOI 21-2). The location of AOI 18, AOI 21-1 and AOI 21-2 are presented on Figure 1.2.

Samples collected during the RFI were analyzed for volatiles organic compounds (VOCs), semi-volatile organic compounds (SVOCs), PCBs, TAL Metals, and Total and Amenable Cyanide. Based on the SHHRA, PCBs were the only constituent of concern identified. A brief summary of the RFI investigation results for those areas in the West Plant Area where PCB results exceeded the screening criteria is listed below.

Data box figures presenting analytical results for sample locations in the West Plant Area are presented as Appendix A.

2.1 MH-ST-43 Catch Basin

During the implementation of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Removal Action along the northern drainage ditch in the East Plant Area, a 48-inch diameter culvert was observed under GM Drive. The pipe was traced back to an existing catch basin (MH-ST-43), located on the southwest corner of the intersection of GM Drive and Breckenridge Road. Sampling of the sediment within the catch basin found PCBs in excess of the industrial screening criteria (7.4 milligrams per kilogram [mg/kg] at the time of the IM completion). The storm sewer catch basin, associated storm sewer network, and investigative sample locations are presented on Figure 2.1. Table 2.1 presents the pre-RA analytical results of samples collected in this area. The catch basin gravity drained to the east beneath the intersection of GM Drive and Breckenridge Road, discharging to the drainage ditch on the east side of GM Drive (between Parcel 401 and the GM East Plant property). The storm sewer system entering the catch basin was no longer in service, with the exception that residual surface water runoff near the basin would enter the MH-ST-43 catch basin through an open-grated cover.

2.2 AOI 18 - Area Affected by the Henry System Discharge

This area was historically covered by concrete to the north and by rip rap along the southern slope. A surface soil sample at boring SS-X154Y117, located underneath rip rap material, collected as part of the RFI Work Plan (CRA, October 2001), exhibited a concentration of 17 mg/kg total PCBs which is above the site screening criterion (7.4 mg/kg). Additional delineation was conducted horizontally and vertically to determine the extent of elevated PCBs at this location. A surface soil sample collected directly under the concrete at boring B-X154Y117C exhibited a total PCB concentration of 140 mg/kg. There is currently no reasonable exposure pathway due to the concrete pavement in this area, however, this sample location was removed as part of the IM. Figure 2.2 presents the location of investigative samples collected in AOI 18. Table 2.2 presents the pre-RA analytical results of samples collected in this area.

2.3 AOI 21 Area 1 - Former Drainage Valley under Hourly Parking Lot

Initial sampling of the AOI 21 Area 1 (AOI 21-1) found surficial soil which exhibited a total PCB concentration of 67 mg/kg PCBs at boring B-X129Y247, which is above the site screening criterion. The area is located directly east of the Facility's primary parking lot. Twelve subsequent soil borings delineated the horizontal and vertical extent of PCBs in soil. Figure 2.3 presents the investigative sampling locations in AOI 21-1. Table 2.3 presents the pre-RA analytical results of samples collected in this area. Following receipt of the surficial soil analytical data, the area around the boring location B-X129Y247 was temporarily fenced to prevent potential exposure to the surficial soil until this area could be remediated.

2.4 AOI 21 Area 2 Former Drainage Valley Northeast of Piston and Office Buildings

Initial sampling of the AOI 21 Area 2 (AOI 21-2) found soil which exhibited a total PCB concentration of 13 mg/kg PCBs at B-X143Y193B, which is above the site screening criterion. The area is located south of AOI 21-1, northeast of the existing office building, in a grassy area between the building and GM Drive (refer to Figure 1.2). An additional 89 borings were advanced to delineate the horizontal and vertical extent of PCBs in the soil. In addition, an investigative groundwater sample was collected from boring B-X143Y193CG. Figure 2.4 presents the investigative sample locations in AOI 21-2 (analytical soil samples were not submitted for 5 locations as they were submitted for geological purposes only as noted on Figure 2.4). Tables 2.4 and 2.5 present the pre-RA analytical results of samples collected in this area. PCB concentrations above the site screening criterion were found in surface soils at

several boring locations in the area. The area was temporarily fenced to prevent potential exposure to the soil until this area could be remediated.

2.5 AOI 13 – South Piston Yard

AOI 13 was historically occupied by five underground storage tanks (USTs). The tanks were removed between 1991 and 1994 by O'Brien & Gere (OBG). OBG submitted a Closure Report to the Indiana Department of Environmental Management (IDEM) in 1994; however, a NFA letter from IDEM with respect to these USTs had not been received at the time of sampling. The location of AOI 13 is presented on Figure 1.2.

Section 3.0 Selected Interim Measures

The objectives for the West Plant IMs included:

- Decontamination and permanent abandonment of the MH-ST-43 catch basin and sealing (grouting) of related piping
- Excavation and disposal of ≥ 50 mg/kg PCBs soils from beneath the concrete slab from AOI 18
- Excavation and disposal of ≥ 50 mg/kg PCBs soils from AOI 21-1
- Excavation and disposal of accessible ≥ 50 mg/kg PCBs soils from AOI 21-2
- Containment of remaining ≥ 50 mg/kg PCBs soils and < 50 mg/kg PCBs material via a cover system at AOI 21-2
- Attainment of a NFA letter from IDEM with respect to the USTs previously removed from AOI 13

The selected interim measures as outlined in the West Plant IM Work Plan (CRA, April 23, 2007) and General Motors Corporation's response to U.S. EPA Comments received July 2, 2007 (CRA, January 22, 2008) are summarized below.

3.1 MH-ST-43 Catch Basin

The MH-ST-43 catch basin, the associated 22-inch diameter pipe and 24-inch diameter pipe, and the 48-inch diameter culvert under GM Drive were cleaned under the supervision of CRA in November 2003 as part of the CERCLA RA (refer to Figure 2.1). Cleaning consisted of vacuuming sediment from the pipes, water jetting the pipes, and collecting the resulting rinse waters. The 22-inch diameter pipe and the 24-inch diameter pipe were blocked with temporary

pneumatic plugs where they joined MH-ST-43 on July 17, 2004 (refer to Figure 3.1 and Drawing C-21 in Appendix B).

The selected IM for MH-ST-43 included pumping each connecting pipe full of grout. The catch basin, constructed of large limestone slabs, was removed entirely. The limestone slabs were broken into manageable sized pieces for transport to the East Plant Area for use as grading fill. Based on sampling performed during the RFI the soil around the catch basin structure was handled as <50 mg/kg PCBs soil, while the soil below the structure was handled as ≥50 mg/kg PCBs soil and placed in the TSCA Vault (refer to Appendix C.1).

Approximately one foot of soil directly beneath the catch basin was removed and disposed of in the Vault. Additional soil (beyond the one foot beneath the catch basin) was removed and disposed of in the Vault as ≥50 mg/kg PCBs soil, based on visual evidence of contamination. Upon completion of the excavation, a soil sample was collected from the excavation floor beneath the catch basin. Due to safety concerns with the stability of the excavation and the potential to undermine the roadway, the excavation was backfilled immediately following completion of excavation activities, prior to receiving sample results. The confirmation/excavation floor sample result was non-detect for PCBs. The area was graded, and restored as an open grassed area (refer to Drawing C-22 in Appendix B). The surface water runoff from the swales on the Facility property was directed to the current stormwater system via grading, ensuring the roadway did not flood during precipitation events.

IM activities conducted at MH-ST-43 are discussed in Section 5.0. U.S. EPA approval for abandonment of MH-ST-43 is provided in Appendix C.2.

3.2 AOI 18 - Area Affected by the Henry System Discharge

In a memorandum responding to U.S. EPA's comments received on July 2, 2007 (CRA, January 2008), General Motors Corporation proposed to prescriptively remove the ≥50 mg/kg PCBs soil in this area (refer to Figures 2.2 and 3.2) up to 2 feet (ft) below ground surface (bgs). The existing ground cover (concrete) was restored (refer to Drawings C-23 and C-24 in Appendix B).

IM activities conducted at AOI 18 are discussed in Section 6.0.

3.3 AOI 21 Area 1 - Former Drainage Valley under Hourly Parking Lot

A prescriptive excavation of the surface soil (to approximately 2 ft in depth) was selected to remove the elevated PCBs in this area (refer to Figure 2.3). Upon completion of the excavation,

the area was backfilled with clean material, and the surface restored (refer to Drawings C-21 and C-22 in Appendix B).

IM excavation activities conducted at AOI 21-1 are discussed in Section 7.0.

3.4 AOI 21 Area 2 - Former Drainage Valley Northeast of Piston and Office Buildings

The data obtained through the completion of the investigations in this area (refer to Figure 2.4), were divided into 2 foot intervals for the purpose of defining the limits of the selected prescriptive soil excavation (refer to Figure 3.3). Elevation intervals ranged from 0 to 2 ft bgs through 20 to 22 ft bgs. For each of these intervals, the limit of ≥ 50 mg/kg PCBs soil was determined. For each interval, the limit of < 50 mg/kg PCBs soil, which required removal to reach ≥ 50 mg/kg PCBs soil at lower elevation intervals, was also determined (refer to Drawings C-01 through C-11 in Appendix B).

The extent of the excavation was limited to maintain safe working slopes and the location of the adjacent pressurized gas line along GM Drive. A geotechnical engineer was required to be present during excavation in the vicinity of the gas line to determine the appropriate slope.

Upon excavation completion, this area was backfilled with low level PCB soils (i.e., < 50 mg/kg PCB) from the creek excavation and then capped with a double liner of clay and plastic or asphalt (the same design as the cap on the East Plant Area Cover System (CRA, August 2006) for the slopes and ditches (refer to Drawing C-12 in Appendix B). A section of the roadside drainage ditch was also excavated and rebuilt using a minimum of one foot of clay for grading and restored with topsoil and seed. The surface water from the cover system was directed towards the rebuilt drainage ditch.

IM excavation and capping activities conducted at AOI 21-2 are discussed in more detail in Section 8.0.

3.5 AOI 13 – South Piston Yard

At the request of IDEM, General Motors Corporation conducted further subsurface investigations at former USTs 1 and 2 in order to finalize the tank closures (refer to Figure 1.2). Once samples were collected and evaluated, it petitioned IDEM and received a NFA Letter.

IMs associated with attaining an NFA letter are discussed in Section 9.0.

Section 4.0 Interim Measures: Site Preparation, Controls, and Construction Approach

The West Plant IMs were designed as stand-alone projects. However, many of the site preparation activities, while executed at varying times, were consistent in their implementation. This section provides a summary of the general IM activities that were conducted at the Site. Details of implementation of each IM are provided in subsequent sections.

CRA provided construction oversight on behalf of General Motors Corporation during the implementation of the IMs, including collection and management of related data, and development and preparation of this Report. CRA provided overall project management and coordination between General Motors Corporation, the selected environmental contractor (Sevenson Environmental Services, Inc., [SES]), the Facility, U.S. EPA, and IDEM.

The IM field activities were initiated following review and approval of the work plan by U.S. EPA, and in coordination with IDEM. These general activities included:

- Performed surveys of private and public utilities
- Mobilized construction facilities, Site trailer(s), material, equipment, and personnel necessary to perform the work
- Established Site security
- Assembled construction support facilities:
 - Emergency first aid facility
 - Fire suppression equipment
 - Break facilities
 - Tool and material storage areas
- Assembled decontamination facilities for personnel and equipment
- Constructed Site access roads, as necessary
- Implemented environmental controls, including establishing air quality and emissions monitoring
- Implemented a Site-specific Health and Safety Plan (HASP)
- Implemented remediation and stormwater controls
- Excavated, staged, transported, and disposed of PCB-impacted materials
- Backfilled and restored excavated areas

- Restored support areas
- Conducted final construction equipment decontamination
- Demobilized temporary facilities, materials and equipment

Wherever possible, resources already in place for the East Plant Area IM or the CERCLA RA were used in conjunction with the West Plant Area IM.

Key site controls and construction approaches, applicable to each IM, are summarized in the following sections.

4.1 Environmental Controls

Prior to the initiation of intrusive activities, environmental controls were put in place to control the migration of potentially impacted dust, sediments, or surface water to outside of the work areas. These controls are described in the following subsections.

4.1.1 Fugitive Dust Control

For the duration of the IM, the contractor was responsible for the control of fugitive dust particulates generated by excavation, transportation, and backfilling of soil. These control measures included the following:

- Minimizing open work areas
- Maintaining fugitive air emissions control measures such as the use of a potable water misting system to prevent the generation of fugitive air emissions
- Reducing levels or types of activity at the Site during adverse weather conditions
- Using appropriate covers on trucks hauling impacted or non-impacted material
- Pausing work and implementing corrective measures prior to resuming work in the event that the contractor's dust control measures were insufficient
- Spraying non-working areas with paper mulch, foam, and/or water for odors and/or dust control during working hours, as needed
- Spraying ≥ 50 mg/kg PCBs excavations with paper mulch at the end of each working day, as required

Due to the limited duration of the ≥ 50 mg/kg PCBs excavations (approximately 1 day each) at MH-ST-43, AOI 18, and AOI 21-1, only fugitive dust monitoring was conducted. Air quality monitoring at the work perimeter was conducted at the AOI 21-2 ≥ 50 mg/kg PCBs excavation

area in addition to fugitive dust monitoring. Air quality at the AOI 21-2 work perimeter was monitored for total suspended particulates (TSPs) and PCBs and is discussed further in Section 8.3.

A photographic log of construction activities is presented in Appendix D.

4.1.2 Erosion Control

A soil erosion and sediment control permit was not required for the West Plant Area IM, as no IM activities interfered with an open waterway. However, the contractor planned and executed construction methods to minimize the amount of soil that required an excavation to be exposed at one time, to the extent practical. In areas where slopes exceeded 5 percent grade, the contractor ensured soil erosion control through the use of silt fences, straw bales, sod, berms, or tarping, as directed by CRA, to prevent erosion and migration of silt, mud, sediment, and other debris out of the work areas.

Once excavation limits were verified, the excavations were immediately backfilled. Final surface restoration of MH-ST-43 (see Drawing C-22), AOI 18 (see Drawing C-24), and AOI 21-2 were completed following backfill activities.

Following backfill of the AOI 21-2 excavation and prior to installation of the final cover system, clean soil was placed over the grading fill material and temporary liners were secured over the exposed surface soil. These liners provided erosion control for the grading fill material and minimized stormwater infiltration. The temporary liners were inspected and repaired until the final cover system was installed.

A photographic log of construction activities is provided in Appendix D.

4.1.3 Surface Water/Stormwater Control

Stormwater controls, including diversion berms and drainage swales, were constructed prior to initiating significant excavation, to control run on (in) from adjacent areas. Water, which accumulated within the excavations, was considered to be impacted and required treatment prior to discharge. Construction of stormwater controls prior to initiating excavation controlled the potential for off-Site releases and minimized the amount of stormwater that could contact PCB-impacted material.

The contractor was required to control stormwater runoff in order to meet the following requirements:

- i) Minimize stormwater entering a work zone from adjacent areas and ponding in excavated areas through use of temporary berms/swales, grading, and by expediting backfilling of excavations.
- ii) Prevent surface water runoff from flowing from contaminated areas to clean areas.
- iii) Ensure that IM activities did not impact stormwater runoff.
- iv) Create a low area within each excavation (sump) to collect and remove water from the excavation. Excavations were maintained dewatered to the extent practical. Collected remediation waters were transferred from the sump(s) to SES's temporary wastewater treatment facility for treatment prior to discharge.

The contractor was able to schedule some of the shorter-duration excavation activities during periods of favorable weather forecast.

A photographic log of construction activities is provided in Appendix D.

4.2 Construction Approach

4.2.1 Excavation Limit Layout

The prescriptive excavation limits for MH-ST-43, AOI 18, AOI 21-1, and AOI 21-2 were established prior to initiation of removal activities based on investigative sample analytical results (refer to Tables 2.1 through 2.4). The limits of excavation were surveyed and marked (e.g., stakes, survey paint, and survey flags) prior to excavation activities.

4.2.2 Soil Excavation

Excavation activities were scheduled so that activities were initiated following Site preparation and implementation of stormwater controls and completed as soon as practical. The contractor performed excavation activities in accordance with the following:

- i) Tasks were conducted in an orderly and safe manner such that the movement and double handling of materials was minimized
- ii) To the extent possible, excavation proceeded in a manner to prevent stormwater runoff being directed from an impacted area to a remediated or otherwise clean area

- iii) Excavation areas were graded to direct stormwater runoff away from excavations
- iv) Measures necessary for dust emission control from excavation, soil handling, and transportation activities were carried out

The final limits of soil excavation for each of the West Plant Area excavations (refer to Figures 3.1, 3.2, 3.3 and Drawings C-12, C-21, and C-23 presented in Appendix B) were verified through post-excavation surveys, as compared to the construction drawings (with the exception of the excavation at the MH-ST-43 catch basin, as described in Section 5.2).

As-built record drawings are presented in Appendix B. A photographic log of construction activities is provided in Appendix D.

4.2.3 Transportation

Transporters licensed by U.S. EPA, U.S. Department of Transportation (U.S. DOT), and the Indiana Department of Transportation (INDOT) were used to transport soil with concentrations ≥ 50 mg/kg PCBs from MH-ST-43, AOI 18, AOI 21-1, and AOI 21-2 to the TSCA Vault or off-Site. U.S. Bulk Transport (U.S. Bulk) was the selected transporter. U.S. Bulk operated in compliance with applicable State and Federal hazardous waste transportation requirements (i.e., 40 CFR Part 263).

Following loading and prior to transport, vehicles transporting ≥ 50 mg/kg PCBs material were inspected for exterior cleanliness to ensure there were no signs of material spillage from the vehicle and/or trailer, secured with tarps, and proper placarding placed.

Soil removed from MH-ST-43, AOI 18, and AOI 21-1 with concentrations ≥ 50 mg/kg PCBs, was transported and placed in the Vault (refer to Appendix C). Soil removed from AOI 21-2 with concentrations ≥ 50 mg/kg PCBs, was transported and placed in the Vault until September 30, 2008.

Starting on October 1, 2008, following closure of the Vault, the remaining soil removed from AOI 21-2 with concentrations ≥ 50 mg/kg PCBs, was transported off-Site for disposal at Heritage's RCRA Subtitle C landfill in Roachdale, Indiana.

Material transported to the Vault for disposal was not manifested as the material was not transported off-Site (refer to approval presented in Appendix C.3). However, the contractor maintained a log of loads transported to the Vault. A summary of this log is provided in Table 4.1. Material transported to the Heritage's Roachdale landfill was transported under manifest (see Section 8.4).

A photographic log of construction activities is provided in Appendix D.

4.3 Backfilling/Final Grading

Backfilling and final grading were conducted in areas where soil was removed. The objective of the restoration activities was to restore disturbed areas generally to their pre-existing geomorphology and function and to re-vegetate areas with native plant species.

In general, backfill materials consisted of clean fill from approved sources. Excavated soil from the CERCLA RA (soils from the creek cleanup containing <50 mg/kg PCBs) was used as grading fill to backfill a portion of the AOI 21-2 excavation and raise the topography in order to convert the area for use as a parking lot. This grading fill was subsequently overlain by clean imported fill material.

Clean fill sources were characterized prior to importation to ensure they were acceptable, based on chemical analysis. Only materials that met the chemical and quality assurance requirements of the Project QAPP were used as backfill.

Common fill used to backfill the excavation at MH-ST-43 and the excavation of AOI 21-1 came from a project-dedicated borrow area located off of Murdock Station Road, in East Oolitic, Indiana. This material was also used as an interim cover for the AOI 21-2 excavation, prior to installing the final cover system.

Ben's Quarry (formerly Ingram Quarry) supplied gravel for the base of the re-constructed concrete slab at AOI 18, topsoil for the MH-ST-43 embankment, bedding for the AOI 21-2 sewer pipe installation, and the gravel base for the asphalt parking lot construction in AOI 21-2. Additional rock was supplied for erosion control along the drainage ditches. In addition, Ben's Quarry provided the clay subgrade, common fill, and topsoil for the AOI 21-2 cover system.

Record Drawings are presented in Appendix B. A photographic log of construction activities is presented in Appendix D.

Section 5.0 Interim Measures Implementation – MH-ST-43 Catch Basin

Prior to initiating RA activities at MH-ST-43, a surficial hole was discovered just southwest of the intersection at GM Drive and Breckenridge Road (refer to Appendix D.1). Subsequent

investigations found the 48-inch diameter culvert pipe had been pierced by a power pole guy wire. Over time, superjacent soils were washed into the culvert, partially filling the culvert and partially depositing into the northern drainage ditch in the East Plant Area. IM activities, which already included grouting the pipe and culvert, were revised to include backfilling the hole caused by the pipe collapse. Concrete barriers were placed at the southwest corner of the road intersection as a public safety precaution until the area could be restored. Plastic sheeting was used to line the hole to minimize further erosion.

IM activities began on June 9, 2008, following utility clearances. In order to provide full access to the work area, a portion of the Facility fence was removed at the corner of GM Drive and Breckenridge Road. Construction fence was erected around the work perimeter and silt fence placed for erosion/stormwater runoff control.

Figure 3.1 and Drawing C-21 in Appendix B identify the pipes that were grouted, the approximate limits of the MH-ST-43 excavation and the approximate limits of the hole. A photographic log of construction activities is provided in Appendix D.1.

5.1 Storm Sewer Grouting

Three storm sewer pipes associated with MH-ST-43 were grouted (Figure 3.1 and Drawing C-21 in Appendix B). These storm sewer pipes were no longer in use by the Facility for stormwater management. Grouted storm sewer pipes included:

1. 55 feet of 22-inch diameter concrete pipe between MH-ST-42 and MH-ST-43
2. 30 feet of 24-inch diameter corrugated steel pipe between MH-ST-43 and the elbow into the 48-inch culvert (approximately where the washout occurred)
3. 65 feet of 48-inch diameter corrugated steel culvert beneath GM Drive

Pipes and culverts were filled using a low strength (120 pounds per square inch [psi]) flowable fill (Flexifill Cellular Flowable fill, see Appendix E.1 for the mix design by Irving Materials, Inc.). An observation port was cut into the 22-inch diameter concrete pipe in order to confirm complete filling of the pipe between MH-ST-42 and MH-ST-43. A temporary pneumatic plug remained in place during grouting operations. An observation port was cut into the 48-inch diameter culvert near a clay plug that was placed on the east side of GM Drive, again in order to confirm complete filling of the pipe between the clay plug and the pipe collapse location at the hole.

No observation port was required when filling the 24-inch diameter corrugated steel pipe between the pipe collapse location at the hole and MH-ST-43. Approximately 3 feet of flowable fill was placed in the bottom of MH-ST-43 to ensure the pipe was adequately filled, with the expectation that flowable fill in the bottom of the catch basin would be removed in conjunction with the catch basin removal.

Once grouting activities were complete, the hole was backfilled in 8-inch compacted lifts with clean fill obtained from the project on-site borrow area.

A photographic log of construction activities is presented in Appendix D.1.

5.2 MH-ST-43 Catch Basin Excavation/Backfilling

Excavation of the catch basin structure and surrounding soils began after the storm sewer pipes had been grouted. The limestone blocks and surrounding soils were excavated, direct loaded into lined over-the-road trucks, and transported to the Vault for disposal. The excavation encountered seepage from perched water at a depth of approximately 5.5 ft bgs in a brown sand and gravel fill material. The seepage was observed to be relatively clear. The perched water was pumped out of the excavation into a frac-tank for subsequent treatment. The contractor was able to dewater the permeable fill and the excavation continued in relatively dry conditions. No sheen or product was observed in the perched water or in the excavation. No adverse odor was noted during the excavating procedure.

The block catch basin wall material and bottom were removed, and soils were excavated from the sides of the excavation in proximity to the former block walls to a depth of approximately 12 ft bgs. Excavated soils and catch basin materials were direct loaded into lined over-the-road trucks and placed into the Vault (refer to Appendix C for approvals). The soil encountered at the base of the excavation beneath the removed sump bottom consisted of a light grey and brown sand and silt. The soil was moist and compact. No visible staining or odors were observed. A sample of the underlying soil was obtained with the excavator bucket and submitted for PCB analysis. The soil sample was non-detect (ND) for PCBs. A copy of the laboratory report is provided in Appendix F.

Due to the excessive caving of the upper soil stratigraphy, the poor integrity of the excavation sidewalls, the proximity of the power pole to the north, and the close proximity of the street to the excavation, the excavation was backfilled immediately after collecting the bottom soil sample. Clean backfill material was obtained from the project on-site borrow area. Due to the aforementioned safety concerns, a post-excavation survey of the excavation prior to filling

could not be completed. An estimated 70 cubic yards (cy) of material were removed as part of the MH-ST-43 removal.

A photographic log of construction activities is presented in Appendix D.1.

5.3 Final Grading/Restoration

Following removal of MH-ST-43, grouting the associated piping and the excavation of PCB impacted soils at AOI 21-1 (see Section 7.0), clean fill material was used to regrade the surface topography at the southwest corner of GM Drive and Breckenridge Road to prevent sheet flow of stormwater across the intersection. A small embankment was constructed to direct water to the perimeter ditches along GM Drive and Breckenridge Road. Surface water was directed to an existing 15-inch diameter culvert which drains to the east side of GM Drive. The culvert inlet was regraded and lined with rip rap to prevent erosion.

The diversion embankment was covered with approximately 4 inches of clean topsoil and seeded using a lawn seed mix consisting of bluegrass, perennial ryegrass and tall fescue. A 4-foot width of sod was placed along the base of the embankment to prevent washout of seed in the event of heavy stormwater flow. Temporary fencing was removed and was replaced with permanent fencing.

Drawing C-22 in Appendix B presents the final restoration for the MH-ST-43 area. Appendix D.1 presents a photographic log of construction activities.

**Section 6.0 Interim Measure Implementation – AOI 18 -
Area Affected by the Henry System Discharge**

Removal Action activities began on July 9, 2008 following utility clearances. To minimize disruption to Facility operations, access to AOI 18 was gained through the Facility Gate 9.

Figure 3.2 and Drawing C-23 in Appendix B identify the limits of the AOI 18 excavation. A photographic log of construction activities is provided in Appendix D.2.

6.1 Concrete Removal

The concrete slab above the impacted soil was saw cut along limits marked by surveyors. The area of concrete removal was slightly larger than the required 20 ft x 20 ft excavation area. A hoe ram was employed to break the concrete and rebar into manageable sizes. Approximately 15 cy of concrete and rebar was removed and transported to the Vault for disposal (refer to

Appendix C). A water truck was employed during concrete cutting activities to wet the area, keeping dust to a minimum. Appendix D.2 presents photographs of concrete removal activities.

6.2 Prescriptive Soil Excavation

The selected Removal Action included the prescriptive removal of 2 feet of soil within the prescribed 20 ft x 20 ft removal area. Excavated soils were direct loaded into a lined over-the-road truck and transported to the Vault for disposal (refer to Appendix C.3). Following excavation, the area was surveyed to confirm prescriptive excavation limits were met. Excavation contours are presented in Appendix B on Drawing C-23. Approximately 50 cy of soil was removed. Appendix D.2 presents photographs of soil excavation activities.

6.3 Restoration

Upon confirmation that the excavation limits had been met, the area was restored. A single layer of drainage geocomposite material was placed at the base of the excavation. The excavation was filled with approximately 2 ft of granular fill. The concrete slab was reconstructed using reinforcing steel and concrete. Twelve steel dowels (four per side) were drilled into the existing slab to connect the new concrete slab to the existing concrete slab and to provide structural strength at the concrete joints. One layer of reinforcing mesh (4 gauge, 6-inch by 6-inch square) was secured to the dowels prior to pouring the selected concrete mix (see Appendix E for the dowel design and concrete mix design). The concrete mix was applied in a single pour. After the concrete surface was leveled and brushed, an expansion control joint was cut into the poured slab. Drawing C-24 in Appendix B presents the AOI 18 Final Restoration. Appendix D.2 presents photographs of restoration activities.

Section 7.0 Interim Measure Implementation – AOI 21 Area 1 - Former Drainage Valley under Hourly Parking Lot

Removal Action activities began on June 9, 2008, in conjunction with the MH-ST-43 work. Figure 3.1 and Drawing C-21 in Appendix B identify the limits of the AOI 21-1 excavation. A photographic log of construction activities is provided in Appendix D.3.

7.1 Prescriptive Soil Excavation

The selected Removal Action included the prescriptive removal of 2 ft of soil within the prescribed removal area. Excavated soils were direct loaded into lined over-the-road trucks and transported to the Vault for disposal (refer to Appendix C). Following excavation, the area was surveyed to confirm prescriptive excavation limits were met. Excavation contours are

presented in Appendix B on Drawing C-21. Approximately 50 cy of soil was removed. Appendix D.3 presents photographs of soil excavation activities.

7.2 Restoration

Once it was determined the excavation limits had been met, the area was restored. Clean backfill from the project on-Site borrow area was used to backfill the excavation to match the surrounding grade. The excavation was further overlain by the diversion embankment, previously discussed in Section 5.3. Drawing C-22 in Appendix B presents the AOI 21 Area 1 Final Restoration. Appendix D.3 presents photographs of restoration activities.

Section 8.0 Interim Measure Implementation – AOI 21 Area 2 - Former Drainage Valley Northeast of Piston and Office Building

Removal Action activities in AOI 21-2 began on July 9, 2008 in conjunction with the AOI 18 activities. Work was completed in three phases:

1. Storm sewer relocation and abandonment
2. Excavation, backfilling, and rough grading
3. Cover system construction

Facility fence located in the work area was removed in order to complete the excavation work. New security fencing was installed west of the work area, tying into existing Facility fencing, to maintain Facility security. Construction fence was erected around the work perimeter and silt fence placed for erosion/stormwater runoff control during construction activities.

Prior to initiating the AOI 21-2 excavation, perimeter air monitoring stations were set up and background readings measured. Perimeter air monitoring is discussed further in Section 8.3.

Monitoring well MW-X143Y193CG was abandoned in advance of the excavation in AOI 21-2, as it was located within the overall excavation footprint.

In addition to the work completed at AOI 21-2, in early August 2011, the Facility indicated that they would be replacing the landscaping in the West Plant Area on the lawn area to the east of the Piston/Administration Building. The work would include removing the existing sidewalks, vegetation and upper 6-inches of soil. Evaluation of samples in this area determined that this soil was impacted. A prescriptive removal was conducted of low level PCB soil in two areas on

the front lawn that exceeded the State Residential criteria of 1.8 mg/kg. Soil removed (approximately 105 cy) was transported to the East Plant Area grading area north of the stormwater pond. Clean topsoil was used to backfill the excavations. A memorandum summarizing the sampling and prescriptive removal completed in this area was submitted to US EPA on November 15, 2011 (presented in Appendix G).

Figure 3.3 presents the limits of the AOI 21-2 excavation, storm sewer locations (old and new), and the identified utilities along GM Drive. A photographic log of construction activities is provided in Appendix D.4.

8.1 Underground Utilities

Prior to initiating excavation activities, utility drawings were reviewed. Both public and private utility location services were employed. Through this process, it was found that three utility services would be impacted by the planned excavation including: facility-owned storm sewers, AT&T telephone and data cables, and a Vectren gas line.

8.1.1 Storm Sewer Relocation

Multiple storm sewer lines traversed the excavation area. In order to facilitate continued stormwater drainage and expedite excavation and backfill activities, the existing storm sewers within the excavation limits were abandoned. New storm sewers were installed outside (generally) the prescriptive excavation limits of AOI 21-2 (refer to Drawings C-13 and C-14 in Appendix B).

The new storm sewer alignment runs west and north of the AOI-21-2 excavation (see Drawings C-16 to C-18 in Appendix B). In advance of the storm sewer relocation, a small, isolated portion of the ≥ 50 mg/kg PCBs excavation was conducted in order to remove the ≥ 50 mg/kg PCBs soils from the 4 to 6 ft bgs zone where this portion of the dig interfered with the new sewer alignment. Overburden material (< 50 mg/kg PCBs soil) was stockpiled adjacent to the excavation for later reuse as grading fill beneath the cap in Parcel 201 and within the AOI 21-2 excavation. The ≥ 50 mg/kg PCBs soils were temporarily stockpiled, then loaded into lined trucks for disposal in the Vault (refer to Appendix C).

The new 24-inch and 36-inch diameter reinforced concrete storm sewer pipes were connected to the old lines and installed in accordance with the design drawings and as modified in the field based on actual conditions encountered. The storm sewer installation included four concrete manholes. Excavated soil (< 50 mg/kg PCBs) from the sewer installation was stockpiled

on-Site for re-use as backfill in Parcel 201, sewer trench restoration, and the AOI 21-2 excavation.

A minimum 6-inch layer of coarse bedding material was placed at the base on the sewer trench excavation, prior to installing the pipe sections. Additional stone was placed on the sides and to a height of 12 inches above the pipe. Excavated soil was used to fill in the remainder of the trench. Soil was placed in 6-inch compacted lifts.

Four manholes (MHST-200, MHST-201, MHST-202, and MHST-203) were installed (refer to Figure 3.3 and Drawing C-13 through C-19 in Appendix B). Upgradient of new manhole MHST-200, MHST-51 is located southwest of the AOI 21-2 excavation limits, just north of the Facility office building. A new storm sewer connected to MHST-201 and an existing storm sewer connected to MHST-51 join at MHST-200. The new storm sewer connected to MHST-202 and the existing storm sewer connected to CB-ST49 rejoin at the most downgradient new manhole, MHST-203, located just north of the AOI 21-2 excavation and south of the driveway entrance to the Facility parking lot.

The as-recorded sewer realignment is presented in Appendix B on Drawings C-13 to C-19. A photographic log for AOI 21-2 is presented in Appendix D.4.

8.1.2 Telephone/Data Cables

When evaluating the utilities located within the footprint of the AOI 21-2 excavation, it was noted that the Facility's primary telephone and data lines extended through the excavation limits. Given the importance of these lines to the Facility's operation, it was agreed to relocate the data lines, rather than try to excavate around the lines and risk service interruption.

The new data lines were placed approximately 3 ft bgs along the alignment of the relocated sewers. Three conduits were placed, two PVC conduits (one primary and one backup) for the existing data cables, and one innerduct conduit if the Facility opts to use fiber optic cables in the future. Approximately 1 foot of backfill was placed directly above the conduits, with warning tape placed on the subgrade surface and then the balance of the trench was backfilled. The cable provider, AT&T, pulled the necessary cables through the newly installed conduits and spliced the lines, connecting the new cable to the existing cable. There was no service interruption to the Facility.

Appendix D.4 presents a photographic log of construction activities in AOI 21-2.

8.1.3 Gas Line

An 8-inch diameter pressurized (225 psi) steel gas line runs parallel with GM Drive along the west side of the road. This gas line services the Facility and area residences. Pre-planning discussions with the utility owner, Vectren, indicated limited options in order to safely work around the pipeline, without interruption of service to consumers.

Prior to intrusive work, the gas line was physically located and surveyed. Vectren performed the exploratory work and found the gas line to be deeper than originally thought (>8 ft bgs). Based on this information and the proposed side slopes (maximum 2H:1V), Vectren agreed that the perimeter excavation, with the initial excavation being offset from the pipe line by 2 ft, could proceed without the need for additional protective or support features.

During excavation activities, geotechnical oversight was provided for real-time assessment of the slope along GM Drive and the gas line. It was determined that a 3H:1V slope away from the gas line was the maximum advisable slope given the sand seams interfaced with clay and backfill layers, thus leaving some potentially impacted material within the remaining embankment and possibly under the gas line.

Appendix D.4 presents a photographic log of construction activities in AOI 21-2.

8.2 Prescriptive Soil Excavation

Site preparation activities, specific to the AOI 21-2 IM activities, included establishing two soil staging areas, an equipment and material staging area, and establishing on-Site access roads. The work area was staged and scheduled to minimize impact to the Facility and their personnel.

Soil excavation activities began on September 10, 2008. Material was removed in 2-foot thick lenses, in accordance with the design drawings. Overburden material (<50 mg/kg PCBs) was stockpiled on-site for reuse as backfill in Parcel 201 and the AOI 21-2 excavation. The ≥50 mg/kg PCBs soils were separately stockpiled in preparation for transport in lined over-the-road trucks to the Vault for disposal (refer to Appendix C). To the extent practical, ≥50 mg/kg PCBs material excavated was transported to the Vault the same day it was excavated. Abandoned storm sewer pipe materials encountered during the excavation were broken and disposed in the Vault, regardless of whether they were found within a ≥50 mg/kg PCBs or <50 mg/kg PCBs lens. At the end of each work day, stockpiled soils were tarped and spray mulch was applied to the excavation.

Following the excavation of the ≥ 50 mg/kg PCBs material within each lens, the excavated area was surveyed to confirm the limits of the prescriptive removal were reached. Additional material was removed if the excavation limits were not initially reached and the area resurveyed. Once the ≥ 50 mg/kg PCBs excavation limits were confirmed, the remaining material (< 50 mg/kg PCBs) was removed in order to facilitate removal of ≥ 50 mg/kg PCB material at lower depths. Following the complete prescriptive removal of each lens, the excavation limits for the next lens was marked by flagging and paint.

Water accumulation within the excavation was removed and transported to the modutanks located on Parcel 216 and treated through the temporary water treatment system (sand and carbon) prior to being discharged to Bailey's Branch Creek.

By late September 2008, the Vault was nearing design capacity, necessitating a review of the AOI 21-2 excavation progress and Vault closure schedule. It was determined that the initial phase of the Vault closure (i.e. covering the impacted soil with a 12-inch compacted clay layer) should be completed prior to winter. To expedite Vault closure, both ≥ 50 mg/kg PCBs and < 50 mg/kg PCBs soil from the subsequent AOI 21-2 excavations was placed into the Vault over the next few days. Once the Vault reached design capacity, the remaining ≥ 50 mg/kg PCBs soils was transported off-Site for disposal. The remaining < 50 mg/kg PCBs soil continued to be staged on-Site and re-used as backfill.

On September 30, 2008, the Vault reached its design capacity. Starting on October 1, 2008, ≥ 50 mg/kg PCBs soil from the AOI 21-2 excavation was transported off Site for disposal at Heritage's Roachdale, Indiana landfill.

The AOI 21-2 excavation was completed on October 4, 2008. A representative of the U.S. EPA was on-Site on October 6, 2008 to inspect the excavation prior to backfilling.

The completed excavation topography for each of the AOI 21-2 excavation lenses is presented in Appendix B on Drawings C-01 through C-11. Approximately 2,000 cy of ≥ 50 mg/kg PCBs soil was excavated and disposed either in the on-Site Vault (approximately 1,000 to 1,400 cy) or at Heritage's Roachdale, Indiana landfill (approximately 500 cy). Drawing C-12 in Appendix B presents the AOI 21-2 excavation backfill contour plan.

Appendix D.4 presents a photographic log of construction activities in AOI 21-2.

8.3 Air Quality Monitoring

An air monitoring program at the perimeter of the AOI 21-2 excavation was conducted to evaluate potential public exposure to fugitive air emissions. In order to verify that no unacceptable emissions occurred, air monitoring for the emission of TSPs was conducted daily for the duration of the construction work. In addition, high-volume PCB sampling (using polyurethane foam (PUF) filter media) was conducted daily during the ≥ 50 mg/kg PCBs soil excavation and for the first two weeks of backfill activities. Samples were collected in accordance with the approved Ambient Air Quality Monitoring Program (AAQMP) (CRA, 2004) and approved addenda and modifications.

In accordance with the AAQMP, as amended at the time of work completion, PCB and TSP monitoring was performed around the active work area on a 24-hour basis. The air monitoring program yielded average concentrations in the ambient air for the selected compounds over each 24-hour period. Concentrations of PCBs and TSPs were determined by measuring the volume of air and amount of contaminant collected on the absorbent media, or filters, over a 24-hour period. Meteorological readings (i.e., temperature, humidity, and barometric pressure) were recorded daily from nearby weather stations to correct and reduce (for reporting) the measured data to ambient conditions.

Sample filters were removed each morning and sent to the laboratory via overnight courier for analysis. With a best case scenario of a one-day turn-around time, the laboratory reports would have been received at the Site the following day, with calculations performed later the same day to determine if PCBs and TSPs concentrations exceeded the percent allowable. Therefore, at least four days would pass before the Site engineer would realize an exceedance of the percent allowable PCBs and TSPs. In the event that the laboratory results and resulting calculations that exceeded the percent allowable, the Site engineer reviewed the results, evaluated Site activities and circumstances on the date of the exceedance(s), and then instructed the contractor to adjust their dust control procedures.

PCB and TSP samples were obtained from four sampling stations positioned around the active work areas. The locations for each air monitoring station (labeled as Group 17) are presented on Figure 8.1. Group 17 air monitoring stations were located at the southwest border of Parcel 401, the northeast corner of the West Plant Area, east of AOI 2 (near AOI 21-2), and one at the southeast border of AOI 21-2.

8.3.1 TSP Monitoring Results

TSP results for air monitoring Group 17 are presented in Table 8.1. TSP results were evaluated against the upwind concentration in each air monitoring group. The Action Level for TSP (shown as 100% Allowable in Table 8.1) is defined as 67 percent in excess of the upwind ambient air concentration based on IDEM, Title 326, Article 6, Rule 4 of the Indiana Administrative Code.

No TSP exceedances were observed at air monitoring Station 31A, which was located at the northeast corner of the West Plant Area. On occasion, exceedances were observed at air monitoring Stations 1C, 43, and 44, located at the southwest corner of Parcel 401, east of AOI 2, and at the southeast border of AOI 21-2, respectively. These observed exceedances were mainly attributed to a combination of increased work activities and less than average rainfall.

In response, the contractor modified construction techniques to minimize dust and increased wetting of on-Facility access roads and public roads along GM Drive and Breckenridge Road.

8.3.2 PCB Monitoring Results

PCB results for Group 17 are presented in Table 8.2. PCB results for Stations 1C, 31A, and 44 were below the Stop Work Action Level of 1 microgram per cubic meter ($\mu\text{g}/\text{m}^3$) for the duration of the work. The Stop Work Action Level was exceeded on two consecutive days (September 23, 2008 at a concentration of $2.02 \mu\text{g}/\text{m}^3$ and September 24, 2008 at $1.76 \mu\text{g}/\text{m}^3$) at Station 43 (PUF-4 in both cases). These observed exceedances were attributed to a combination of increased work activities and less than average rainfall.

On September 23, 2008, the contractor was excavating in the east portion of the work area. The $\geq 50 \text{ mg}/\text{kg}$ PCBs soil lens was being excavated at the 2 to 4 ft bgs depth in the area previously fenced off by the AT&T line. In addition, the $< 50 \text{ mg}/\text{kg}$ PCBs soil lens was being excavated at the 4 to 6 ft bgs depth in preparation for excavation of the underlying $\geq 50 \text{ mg}/\text{kg}$ PCBs soil lens the next day.

On September 24, 2008, the contractor was stripping $< 50 \text{ mg}/\text{kg}$ PCBs material from the northern portion at the 4 to 6 ft bgs depth. In addition, the 6 to 8 foot $\geq 50 \text{ mg}/\text{kg}$ PCBs soil lens was excavated from the central portion of the work area, including the CBST-49 catch basin and one section of the 36-inch diameter sewer pipe north of the catch basin that was handled as $\geq 50 \text{ mg}/\text{kg}$ PCBs material and debris.

In response, the contractor modified construction techniques to minimize dust, including minimizing the stockpile area untarped at a given time, modifying the dumping process (into the temporary stockpile) in a manner that would minimize dust, and increased wetting of on-Facility access roads and public roads along GM Drive and Breckenridge Road.

8.4 Manifesting, Labeling, and Documentation

Waste materials containing ≥ 50 mg/kg PCBs, excavated after September 30, 2008, were shipped to Heritage's Roachdale, Indiana landfill for disposal. Transportation over public roads was conducted in compliance with Federal, State, and local regulations concerning shipping materials.

CRA completed a Truck Inspection Report for each loaded vehicle leaving the Site for soil disposal at the Roachdale landfill. The Truck Inspection Report recorded information such as truck number, manifest number, type and origin of waste soil, and vehicle condition.

Waste materials with ≥ 50 mg/kg PCBs designated for off-Site disposal were manifested prior to leaving the Site. The manifest forms were consistent with 40 CFR Part 262 "Environmental Protection Agency Hazardous Waste Generator Standards", 40 CFR Part 263 "EPA Hazardous Waste Transporter Standards", 40 CFR Part 268, "Land Disposal Restriction Standards", 40 CFR Part 761, "EPA Polychlorinated Biphenyls Rules", and the State of Indiana regulations. General Motors Corporation retained the Generator manifest copy, a copy of the Bill Of Lading (BOL), a copy of the scale ticket, and the Truck Inspection Report. Upon disposal at Heritage, the Return to Generator copies of the manifest and BOL, as well as the Certificate of Disposal, were sent to CRA for cross check (to ensure the materials reached their destination) and filing (with copies provided to General Motors Corporation). Copies of the paperwork for off-Site shipment of the ≥ 50 mg/kg PCBs soil disposed at the Roachdale landfill are provided in Appendix H.

As previously discussed in Section 4.2.3, material transported to the Vault for disposal was not manifested as the material was not transported off-Site (refer to approval presented in Appendix C.3). However, the contractor maintained a log of loads transported to the Vault. A summary of this log is provided in Table 4.1.

8.5 Backfilling and Cover System Rough Grading

The soil excavation area at AOI 21-2 was backfilled with < 50 mg/kg PCBs material from the CERCLA Removal Action and temporarily stockpiled < 50 mg/kg PCBs overburden from within the AOI 21-2 excavation (refer to Drawing C-12 in Appendix B). The fill was placed in 8-inch

loose lifts, compacted with 3 passes of a sheepsfoot roller, and raised to within 6 to 12 inches below original ground surface. A minimum of 6 inches of clean clay from the on-Site borrow area was placed over the fill material and compacted in preparation for construction of the final cover system. Tarps were placed over the clay on the east-facing slope to minimize erosion potential over the winter months.

A section of the drainage ditch along GM Drive that was removed during the AOI 21-2 excavation was rebuilt using approximately one foot of clay for grading. The area was restored with topsoil and seed.

The West Plant area was routinely inspected to ensure erosion control measures continued to perform until the West Plant final cover system could be constructed.

Appendix D.4 presents a photographic log of construction activities in AOI 21-2.

8.6 AOI 21-2 Cover System

The purpose of the AOI 21-2 cover system is to prevent direct contact with the underlying soil and reduce infiltration of precipitation through the soil into the groundwater. The cover system consists of a combination hard surface cover (asphalt) on the west half of the area in order to create a parking lot for Facility personnel and double lined cover on the east slope (consistent with the adjacent East Plant Area Cover System [CRA, April 2007]).

The Facility began a significant expansion effort following the completion of the AOI 21-2 excavation work. The footprint of the Facility in the area of the cover system fluctuated over the next several months. In order to successfully and safely conjoin the Facility expansion and the final cover system in the AOI 21-2 area, the final cover system design was not completed until the Facility finalized their expansion designs. During this time, the completed subgrade surface in AOI 21-2 (consisting of a minimum 6 inches of compacted clay and tarps) was routinely inspected to ensure the temporary cover system was not compromised.

Work resumed on the AOI 21-2 cover system on June 16, 2011. Perimeter security fencing along the west side of the excavation was removed and replaced with portable temporary construction fence panels along the west side of the work area. Construction fence was erected on the east, north and south sides of the work area.

Manholes and fire hydrants located within the footprint of the hard surface cover system were raised to accommodate the final surface elevation of the cover system.

Appendix D.4 presents a photographic log of construction activities in AOI 21-2.

8.6.1. Grading Fill

As noted in Section 8.4, the AOI 21-2 excavation was backfilled using <50 mg/kg PCBs soil excavated from the CERCLA Removal Action and the AOI 21-2 excavation itself. The <50 mg/kg PCBs material was covered with clean soil until the cover system design could be implemented. When construction resumed, additional grading fill material from the CERCLA Removal Action was placed and used to build up a base for the overall cover system subgrade. The grading fill layer was designed to provide the overall shape and slope of the cover system, optimizing the functionality of the cover system. The grading fill layer was compacted using three passes of a sheepsfoot roller. At the end of the work day, the grading fill material which had not been covered by the clay barrier layer was covered with temporary tarps. The final as-built top of subgrade layer contour plan is presented on Drawing C-13 and subgrade layer elevation plan on Drawing C-14 in Appendix B.

Appendix D.4 presents a photographic log of construction activities in AOI 21-2.

8.6.2 Clay Barrier/Clean Fill (Clay) Layer

A compacted clay barrier layer was placed over the grading fill. The clean fill layer (clay) under the hard surface cover system was a minimum 18 inches thick (refer to Appendix C.4). The clay barrier layer under the vegetative cover system was a minimum of 12 inches thick. Clay used in the barrier layer was imported from Ben's Quarry. Clay was periodically inspected at the source and daily upon delivery to ensure soil technical specifications were met. In addition, geotechnical testing was performed to ensure the clay complied with the following specifications:

- The hydraulic conductivity of the clay liner was designed to be 1×10^{-7} centimeters per second (cm/s) or less under the vegetated cover system and 1×10^{-5} cm/s or less under the asphalt cover system, consistent with ASTM D 5084 method of testing.
- Minimum of 50 percent passing the No. 200 sieve, of which a minimum of 15 percent is clay. Particle size distribution to be consistent with ASTM D422 method of testing.
- ASTM D2487 Group Symbol CL or ML.

Clay material was placed and compacted in in equal continuous layers not exceeding 8-inch loose lifts (6 inches compacted). The clay barrier layer was surveyed upon completion to ensure the design thickness and elevations had been met (within a tolerance of plus or minus 0.1 ft from the design elevation).

In advance of field compaction testing, the contractor collected two samples of the clay soils from the off Site borrow source and submitted these samples for analyses of atterberg limits, maximum dry density, optimum moisture content, particle-size distribution, hydraulic conductivity, and classification of the material. The laboratory testing results were then used as proctor information to calibrate the nuclear densometer in the field in order to determine that the density in place of the compacted clay layer met the required 95 percent Standard Proctor Density compaction level. Geotechnical test results are provided in Appendix I.1.

Table 8.3 presents a summary of the geotechnical testing results for the proctor samples and the clay compaction test data collected by Professional Services, Inc. (PSI). The location of the compaction tests are shown on Figure 8.2. A total of 12 compaction test were conducted during the clay placement work (nine compaction tests were performed on the clay to be covered by the vegetated cover system and three compaction tests were performed on the clay to be covered by the asphalt cover system), with all tests achieving satisfactory proctor density results greater than or equal to 95 percent proctor.

In addition to the hydraulic conductivity testing performed for the proctor samples, and in accordance with the CQA Plan (CRA, December 12, 2007), two in-place samples (Shelby tubes) were collected from the clay layer in the area to be capped by the hard (asphalt) cover system to further support the compaction testing data collected during the clay placement. The locations of the samples are presented on Figure 8.2. The two samples were shipped to Inspec-Sol in Waterloo, Ontario for permeability in accordance with ASTM D5084. The test results for the Shelby tubes showed that the in situ clay/fill material exceeded the permeability requirements for the clay layer. Table 8.3 presents the permeability data.

Once the clay barrier/clean fill (clay) layer was placed and compacted, as discussed above, the balance of the cover system construction began, starting with the asphalt cover system, followed by the double liner cover system. The final as-built top of clay layer topography is presented on Figure 8.2.

Appendix D.4 presents a photographic log of construction activities in AOI 21-2.

8.6.3 Hard Surface Cover System Components

The hard surface cover system was installed to support vehicular traffic (i.e., a parking lot). This hard surface cover meets TSCA requirements for asphalt covers identified in 40 CFR 761.61 (a) (7). The eastern one third (approximately) of the parking lot serves to cap the

AOI 21-2 excavation. The cross section of the parking lot construction, for the purpose as the hard surface cover system is as follows (bottom to top):

- Grading fill (<50 mg/kg PCBs material from the CERCLA RA, depth varies) (see Section 8.6.1)
- Compacted clean fill (clay) layer (minimum 18 inches over the grading fill) (see Section 8.6.2)
- Geotextile fabric
- Granular base (6 inches)
- Asphalt (6 inches)

The balance of the parking lot was similarly constructed, with slight modifications. The clean fill (clay) layer was not required outside of the AOI 21-2 excavation fill limits, but was used where necessary to raise the subsurface to the required elevation for the granular asphalt base. In general, 6 inches of gravel base were placed over the clay/soil subgrade and overlain with a 6-inch asphalt cap. A 40-foot width section along the western edge of the parking lot received a minimum 12 inches of gravel base. The asphalt thickness in this same area increased from 6 inches to 9 inches. This 40-foot width was designed to support a maximum 100-ton (lift capacity) crane to accommodate future Facility maintenance needs.

As-recorded final contours for the hard surface Cover System are presented in Appendix B on Drawing C-13. Appendix D.4 presents a photographic log of construction activities in AOI 21-2.

8.6.3.1 Granular Base

Geotextile fabric was placed within the footprint of the parking lot. A 6-inch granular base (Indiana #53 stone) was placed above the clean fill (clay) layer. A 12-inch granular base was placed in a 40-foot width along the western edge of the parking lot.

In advance of field compaction testing, the contractor collected samples of the granular base from the off-Site borrow source and submitted these samples for analyses of both maximum dry density and optimum moisture content. The laboratory testing results were then used to calibrate the nuclear densometer in the field in order to determine that a minimum 98 percent Standard Proctor Density compaction level had been achieved during construction. Geotechnical test results are provided in Appendix I.2.

Table 8.4 presents a summary of the granular base geotechnical testing results and compaction test data collected by PSI. The locations of the tests are shown on Figure 8.3. A total of three compaction tests were conducted during the granular base placement work. The granular base

layer for the hard surface cover system was sufficiently tested to ensure uniform compaction to 98 percent or more.

Appendix D.4 presents a photographic log of construction activities in AOI 21-2.

8.6.3.2 Asphalt

A 6-inch asphalt layer was placed over the granular base to support vehicular traffic. The asphalt included a 4.5-inch binder layer and a 1.5-inch surface coat. A 9-inch asphalt layer was placed over the granular base covering the 40-foot width on the west side of the parking area that was designed to support a 100 ton (lift capacity) crane. This asphalt included a 6-inch binder layer (placed in 2 lifts) and a 3-inch surface coat. This hard surface cover meets the TSCA requirements for asphalt covers identified in 40 CFR 761.61 (a) (7).

The asphalt mix used was a standard performance grade 64-22 mix. The frequency of compaction testing and core sample collection and acceptance/rejection criteria for the asphalt layer were consistent with INDOT specifications for asphalt pavements (Section 400). Table 8.5 presents a summary of the asphalt compaction test data collected by PSI/Dave O'Mara Paving. A total of six compaction tests were conducted during the asphalt work (four tests were conducted on the base layer and two tests were conducted on the top/surface layer). The locations of the tests are shown on Figure 8.4. The asphalt for the hard surface cover system was sufficiently tested to ensure uniform compaction between 92 and 97 percent.

Additionally, four core samples were collected. PSI collected Core #1 on August 19, 2011 from the parking area (25 mm base course asphalt in the parking lot/roadway 4.5-inch base), which met the required 4.5 inches. On August 22, 2011, PSI collected Core #2 (7.5-inch base) from the heavy duty loading area base which met the required 7.5 inches required for the base. Core #3 (6.5 inch base) was collected from the final surface depth on the parking area and the total core depth was greater than the required 6 inches with the surface layer equal to 1.5 inches. The final Core #4 (9.5 inch base) was collected from the heavy loading area and had a surface thickness of 1.5 inches.

Appendix I.3 presents the asphalt testing reports. Appendix D.4 presents a photographic log of construction activities in AOI 21-2.

8.6.4 Double Liner Cover System Components

The double liner cover system cross-section is as follows (listed in order of bottom to top):

- Grading fill (<50 mg/kg PCBs material from the CERCLA RA, depth varies, based on prescribed excavation limits) (see Section 8.6.1)
- Compacted clay barrier layer (minimum 12 inches over the grading fill) (see Section 8.6.2)
- 60 mil Linear Low Density Polyethylene (LLDPE) Liner
- Geocomposite drainage layer
- Common fill (12 inches)
- Vegetated cover (6 inches)

The construction and materials used for the vegetated cover system were tested to verify compliance with the specifications presented in the CQA Plan for the East and West Plant Cover Systems.

Appendix D.4 presents a photographic log of construction activities in AOI 21-2.

8.6.4.1 Linear Low Density Polyethylene Liner

Following completion of the compacted clay barrier layer (see Section 8.6.2), textured LLDPE liner was used in the double liner cover system. As the LLDPE liner material is not susceptible to frost damage, installation was not required to be below the frost penetration depth. The 60-mil thick textured LLDPE liner was placed above the clay barrier layer (discussed in Section 8.6.2).

LLDPE is designed to withstand a large range of temperatures, including resistance to freeze-thaw cycles. Installation of the liner is recommended between temperatures of 0-50°C, however liner strength and susceptibility to brittle failure is determined by the *"Test Method for Brittleness Temperature of Plastics and Elastomers"* (ASTM D746). Following contact with GSE Environmental, CRA was directed to utilize technical notes published for all manufactured liners to assess LLDPE liner-related specifications. Pursuant to GSE's technical standards, the specific type of textured geomembrane used on Site contains a maximum low brittleness temperature of -77°C (GSE, 2012). Although ASTM D746 was not listed within CRA's geomembrane quality requirements, the test method is an inherited trait, as per GRI (Geosynthetic Research Institute) Test Method GM17. Ultimately, GRI GM17 identifies all test properties, test frequencies and the recommended warranty for all LLDPE and textured membranes.

The CQA Plan and Section 02072 of the technical specifications for the East and West Plant Cover Systems identified the types of testing required for the selected liner materials. Testing by the liner manufacturer prior to delivery to the Site included thickness, carbon black content, density, tensile strength at break, elongation, puncture resistance, and tear resistance. These testing results were provided by the contractor as a submittal and were approved by the engineer prior to placement. Prior to installation, the liner material was visually inspected and the product tags removed from each roll to cross check against the submittal. Table 8.6 presents a summary of the LLDPE liner installation log maintained by the field quality assurance (QA) personnel, indicating the roll numbers deployed, field approval for deployment, and the installed lengths associated with each of the panels deployed. The lengths of the LLDPE liner panels installed within the West Plant Area generally ranged between 11 and 149 feet. Drawing C-15 in Appendix B presents the as recorded panel layout for the 60 mil LLDPE material.

The critical element of the liner installation is the quality of the seams and associated seam testing. A total of 29 seams resulted from the connection of the 24 LLDPE liner material panels deployed. The majority of the seams were completed using hot wedge (fusion) welding, with extrusion welding conducted for the corners or short seam lengths that were too difficult to access with the hot wedge welding equipment, as well as the repairs associated with destructive seam testing and any field tears, as necessary (refer to Drawing C-15 in Appendix B).

At the start of each day and following the lunch break, test seams were completed (i.e., at least twice per day) for each piece of seaming equipment prior to conducting any seaming activities associated with the installed liner. Trial weld testing is a field test which assesses a machine's ability to properly weld the LLDPE liner seams, as per the QA procedure. The test itself is a precursor to work on the installed LLDPE liner itself and can be conducted in a controlled environment, or on Site in an adjacent area. If a trial weld test does not achieve passing results, the machine operator would implement corrective actions on a machine that is involved in the failed welds, such as adjusting temperature and/or feed speeds. Following implementation of corrective actions, a subsequent trial weld test is performed to determine whether the machine can be brought back into productive use depending on whether QA/QC procedures are satisfied. Table 8.7 presents a summary of the test seams (i.e., trial welds) completed for the 60-mil LLDPE liner layer.

The initial process in the verification of the liner seam competence is the performance of non-destructive seam testing, accomplished by pressure testing each seam in accordance with Geosynthetic Research Institute (GRI) Test Method GM6. With every non-destructive seam test, a needle and gauge is inserted into the two ends of the air channel between the dual wedge seam. Upon completion, a seam repair number was identified for the extrusion bead

that was placed over the small needle holes created during the non-destructive seam testing, even though these holes are actually only into the air channel and not all the way through the liner itself.

Table 8.8 summarizes the non-destructive seam testing completed at all 26 seam locations related to the liner installation, that were fusion welded in accordance with the CQA Plan which required non-destructive air tests to be completed on "100 percent of production seams". The three remaining seams (WP-5/WP-11, WP-7/WP-5, and WP-7/WP-6) were not non-destructive seam tested because they were extrusion welded due to the short length of seam (i.e., extrusion welds result in a single sided seam that cannot be air tested because there is no air channel) as identified in Table 8.8. There were no noted failures for the non-destructive tests completed.

In addition to the non-destructive seam testing, destructive seam testing was performed in accordance with ASTM D4437. Table 8.9 summarizes the field and laboratory test results of the 6 destructive seam tests completed for the LLDPE liner installation. Testing included a destructive seam shear test and a destructive seam peel test, each being conducted at a minimum of 1 test per approximately 500 lineal feet of combined seam for the field tests and at least one seam and peel test per approximately 1,000 lineal feet of combined seam for the laboratory tests. Each destructive shear and peel test completed in the field were tested using a calibrated field tensiometer. Following acceptable results of the field destructive seam testing, a set of five test coupons was provided to the engineer to perform similar laboratory destructive testing at TRI/Environmental, Inc. (TRI), located in Austin, Texas, for both peel and shear. At least four out of five coupons were required to pass for acceptance of destructive testing. The laboratory results were always deemed to govern the approval of a passing destructive seam test. As shown in Table 8.9, destructive seam tests passed in both the field and the laboratory, with the results in excess of the technical requirements (i.e., destructive seam testing had a zero percent failure rate).

Some of the seams were damaged and repaired during construction, due to destructive testing and other construction activities. Some of the seams were identified as patches/repairs due to the location of the seam where patches were required to complete the seam (i.e., at the top and bottom of some panel seams or where the wedge welder could not physically fit, such as the retention trench). Patches/repairs were also placed mid-seam where panel seams were completed in more than one pass, for example, if the welder "stuck", it had to be pulled off, and the seam restarted, with the gap between the seams requiring a patch/repair. Repair locations, as well as the locations of destructive seam tests, were surveyed in the event they needed to be inspected in the future. A summary of the LLDPE liner seam repairs is presented

in Table 8.10. The locations of destructive seam tests and repairs are presented on Drawing C-15 in Appendix B.

Appendix D.4 presents a photographic log of construction activities in AOI 21-2.

8.6.4.2 Geocomposite Drainage Layer

Following completion of the LLDPE liner installation, a geocomposite drainage layer consisting of an HDPE drainage net core sandwiched between two layers of geotextile fabric was installed over the entire footprint of the vegetated cover system, prior to the placement of the common fill layer (refer to Drawing C-19 and C-20 in Appendix B). Appropriate care was exercised to prevent damage to the underlying LLDPE liner during placement and overlapping activities of the geocomposite drainage layer.

The CQA Plan identified the testing required for the geocomposite drainage material. Testing completed by the manufacturer prior to delivery to the Site included density, carbon black content, tensile strength, ply adhesion, transmissivity, permeability, permittivity, and apparent opening size. These testing results were provided by the contractor as a submittal and were approved by the engineer prior to placement.

During the placement of the geocomposite drainage layer, the material was visually inspected and the product tags removed from each individual roll to cross-check against the submittal. Some of the rolls of the geocomposite drainage layer material did not have tags (it is believed by CRA that the tags fell off while the material was stockpiled [in accordance with the manufacturer's specifications] on Site) but were previously marked with a color coding system to indicate that the roll had been approved for use in the cover system construction. Table 8.11 presents a summary of the geocomposite drainage layer installation log maintained by the field QA personnel, indicating roll numbers deployed, date that the material was deployed, and results of the manufacturer's QA testing procedures.

Appendix D.4 presents a photographic log of construction activities in AOI 21-2.

8.6.4.3 Common Fill Layer

A 12-inch common fill layer was placed over the geocomposite drainage layer (refer to Drawings C-19 and C-20 in Appendix B). Common fill was imported from Ben's Quarry. Common fill was visually inspected at the source (periodically) and daily upon delivery to the Site to ensure the soil specifications were met. Common fill material was placed and compacted in equal continuous layers not exceeding 8 inches loose lifts (6 inches compacted).

The common fill layer was surveyed upon completion of each compacted lift to ensure the design thickness and elevations had been met. Compaction was generally deemed completed following five passes of a sheepsfoot roller.

Appendix D.4 presents a photographic log of construction activities in AOI 21-2.

8.6.4.4 Topsoil and Vegetative Cover Layer

A 6-inch topsoil layer was placed over the surface area previously covered with common fill (refer to Drawings C-19 and C-20 in Appendix B). Topsoil was imported from Ben's Quarry. Topsoil was visually inspected at the source (periodically) and daily upon delivery to the Site ensure the soil specifications were met.

Following placement of the topsoil, grass seed and mulch were placed to establish a vegetative cover to prevent wind and water erosion in the short term and to enhance aesthetics and a self-sustaining ecosystem in the long term. Erosion control matting was placed on an as-needed basis over the vegetated cover system slopes to prevent erosion of the topsoil and loss of seed during the first rooting season. As-recorded final contours for the West Plant Area vegetated cover system representing the final surface of the combined common fill and topsoil layers are presented in Appendix B on Drawing C-19.

The vegetation was inspected by an outside consultant (Cardno JFNew) in September 2013. The inspection found that while vegetation had been established and was satisfactorily preventing erosion, the established plant species were not consistent with the desired flora. On-going maintenance of the cover system will include weed control application, fertilizer application, re-seeding, and mowing until a more aesthetically appealing vegetated cover is achieved.

Appendix D.4 presents a photographic log of construction activities in AOI 21-2.

Section 9.0 Interim Measure Implementation - AOI 13: South Piston Yard

As part of RFI Work Plan: Addendum No. 10, further subsurface investigations at former USTs 1 and 2 were completed. The results of the further investigation were submitted to IDEM in a letter dated February 4, 2008. In the letter, the past closure activities (tank removal), historical sampling, and current sampling were summarized. Based on the information provided, a NFA letter related to closure of the former USTs was requested.

A Conditional NFA letter for the USTs from IDEM on March 20, 2008 and a NFA Clarification Letter on November 7, 2008 were received as a result of these actions. The IDEM approval letters are presented in Appendix J.

Section 10.0 Long Term Operation, Maintenance, and Monitoring

Long term operation, maintenance, and monitoring (OM&M) requirements for the West Plant IMs will be included in the final Long Term OM&M Plan for the East and West Plant IMs. This plan will be submitted under separate cover. The OM&M Plan will be developed for the entire West and East Plant Area IMs, and the associated on Facility Site Source Control (SSC) Water Treatment Plant (WTP), which will include the Vault and associated pumping systems.

The OM&M will include the following items pertinent to the West Plant Area IMs:

- a) Cover System inspection schedules
- b) Record keeping procedures
- c) Reporting procedures
- d) Security
- e) Post Closure administrative contact information

Section 11.0 References

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General Motors Corporation, Letter from Cheryl Hiatt to Peter Ramanauskas, Re: Revised Request for East Plant Area AAQMP Modifications, January 9, 2007.

General Motors Corporation, Letter from Cheryl Hiatt to Kathy Simonson, Re: Request for No Further Action Letter and Transfer to RISC Program, February 4, 2008.

GSE Lining Technology, LLC, Product Data Sheet – GSE UltraFlex Textured Geomembrane, June 6, 2012.

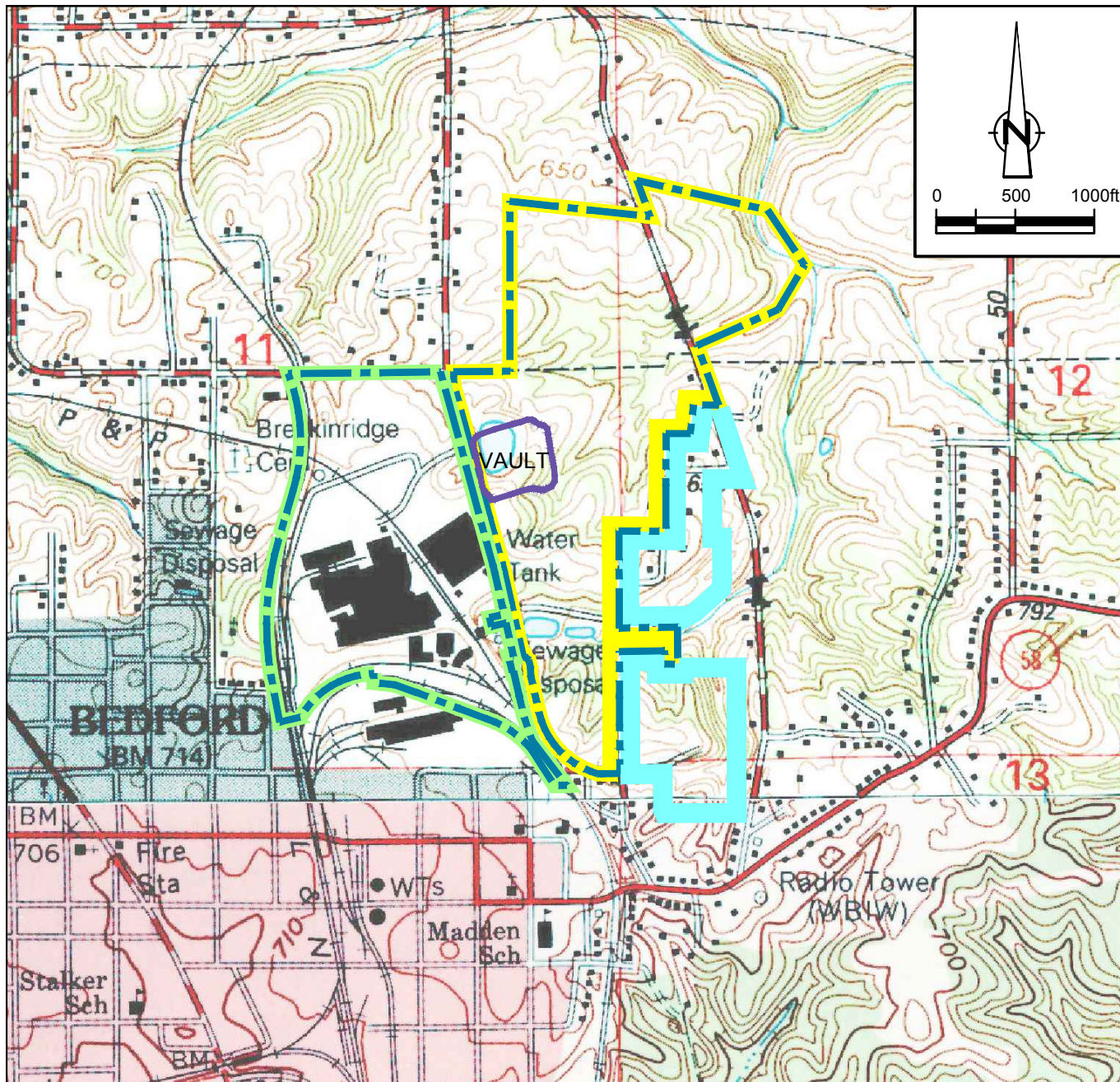
Section 12.0 Construction Certification

I certify that, to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of this report, the information submitted is true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Respectfully Submitted,



James J. McGuigan, P.E.
Project Coordinator



BASE SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLES;
 BARTLETTSVILLE, INDIANA 1994
 BEDFORD EAST, INDIANA 1978
 BEDFORD WEST, INDIANA 1993
 OOLITIC, INDIANA 1987



LEGEND

- APPROXIMATE FACILITY BOUNDARY
- WEST PLANT AREA BOUNDARY
- EAST PLANT AREA BOUNDARY
- VAULT LIMIT
- GM LLC OWNED RESIDENTIAL PROPERTIES

figure 1.1

FACILITY LOCATION
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
Bedford, Indiana



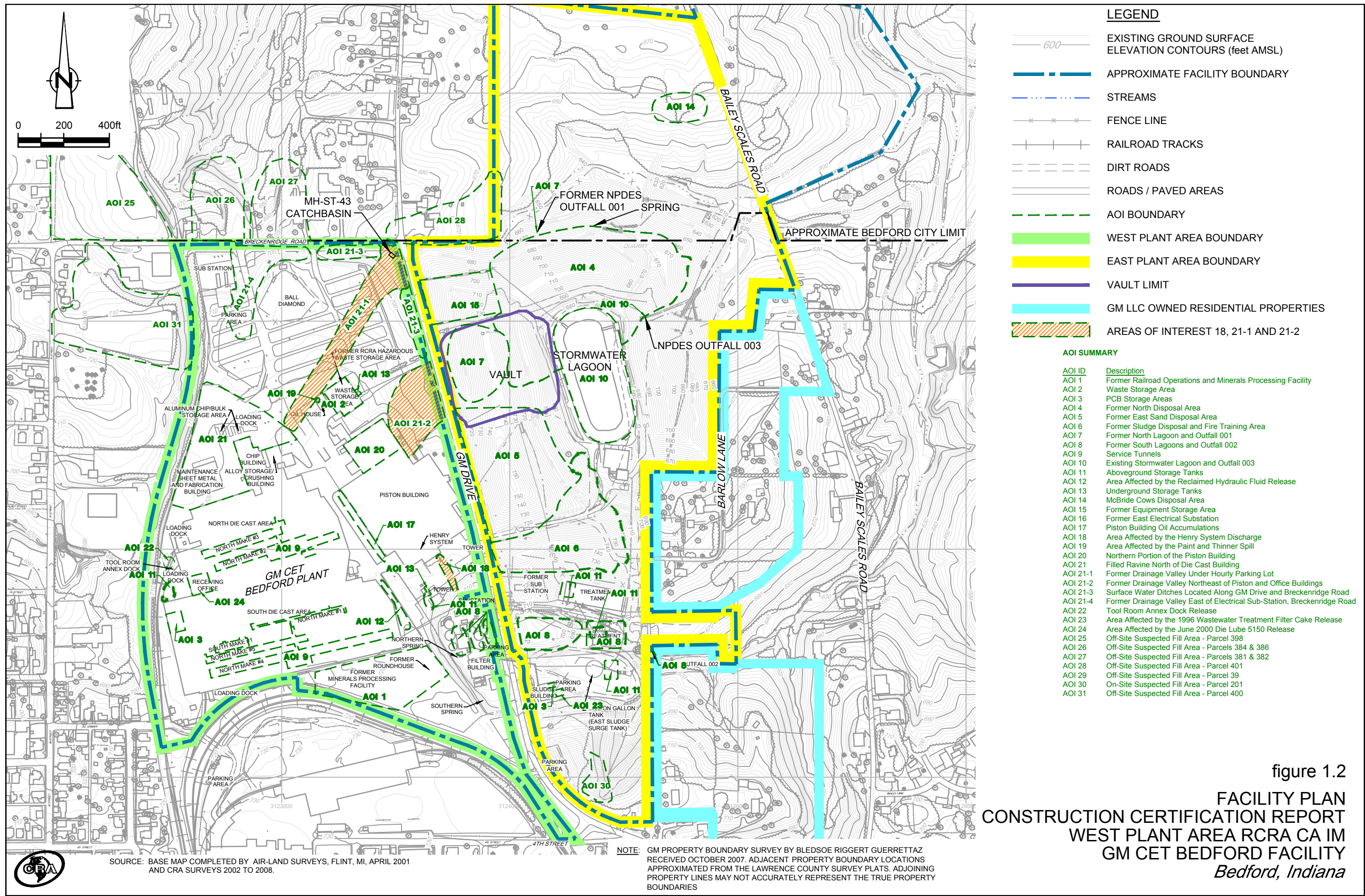


figure 1.2
 FACILITY PLAN
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 Bedford, Indiana



SOURCE: BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001 AND CRA SURVEYS 2002 TO 2008.

NOTE: GM PROPERTY BOUNDARY SURVEY BY BLEDSOE RIGGERT GUERRETTAZ RECEIVED OCTOBER 2007. ADJACENT PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. ADJOINING PROPERTY LINES MAY NOT ACCURATELY REPRESENT THE TRUE PROPERTY BOUNDARIES

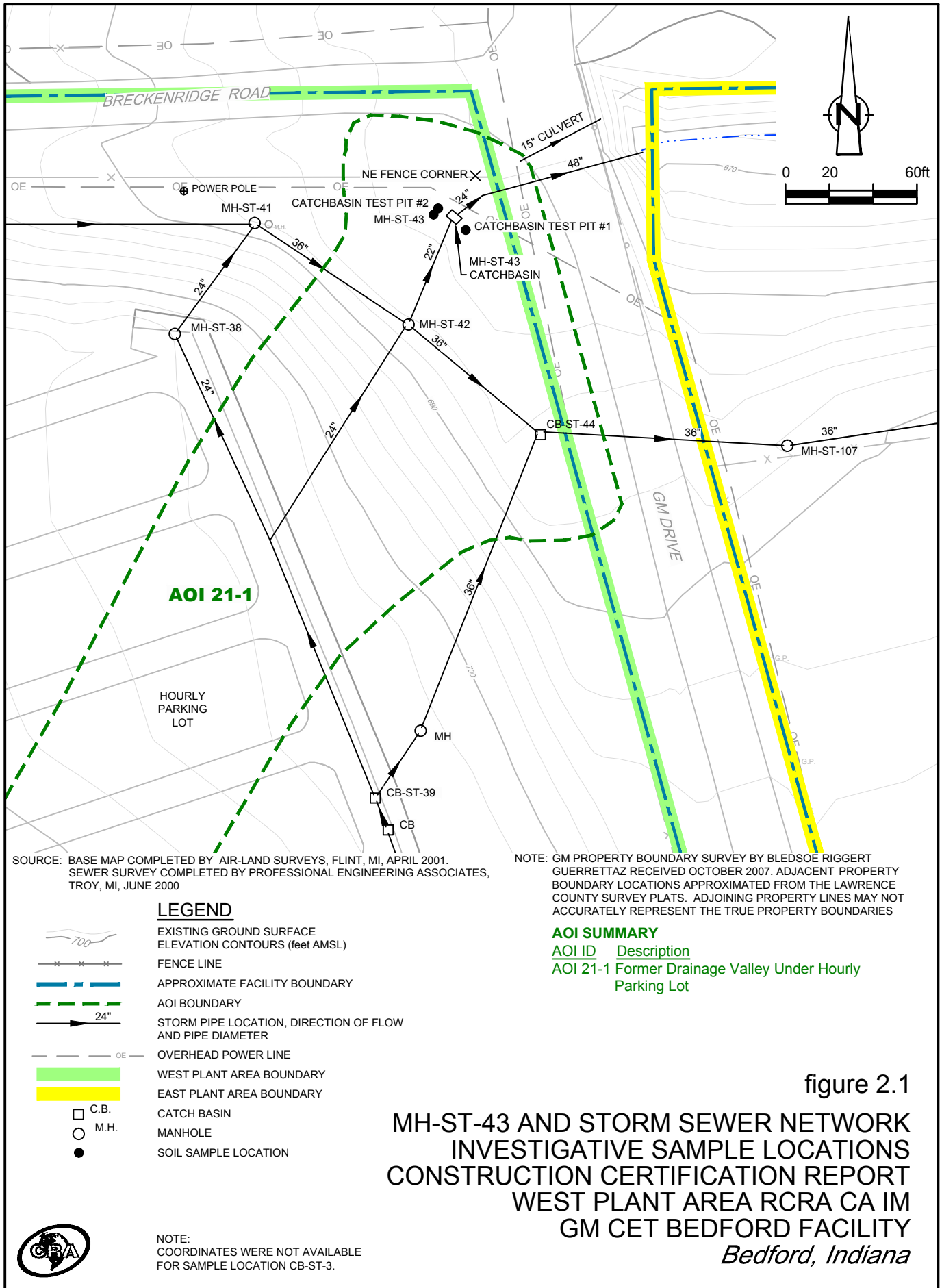
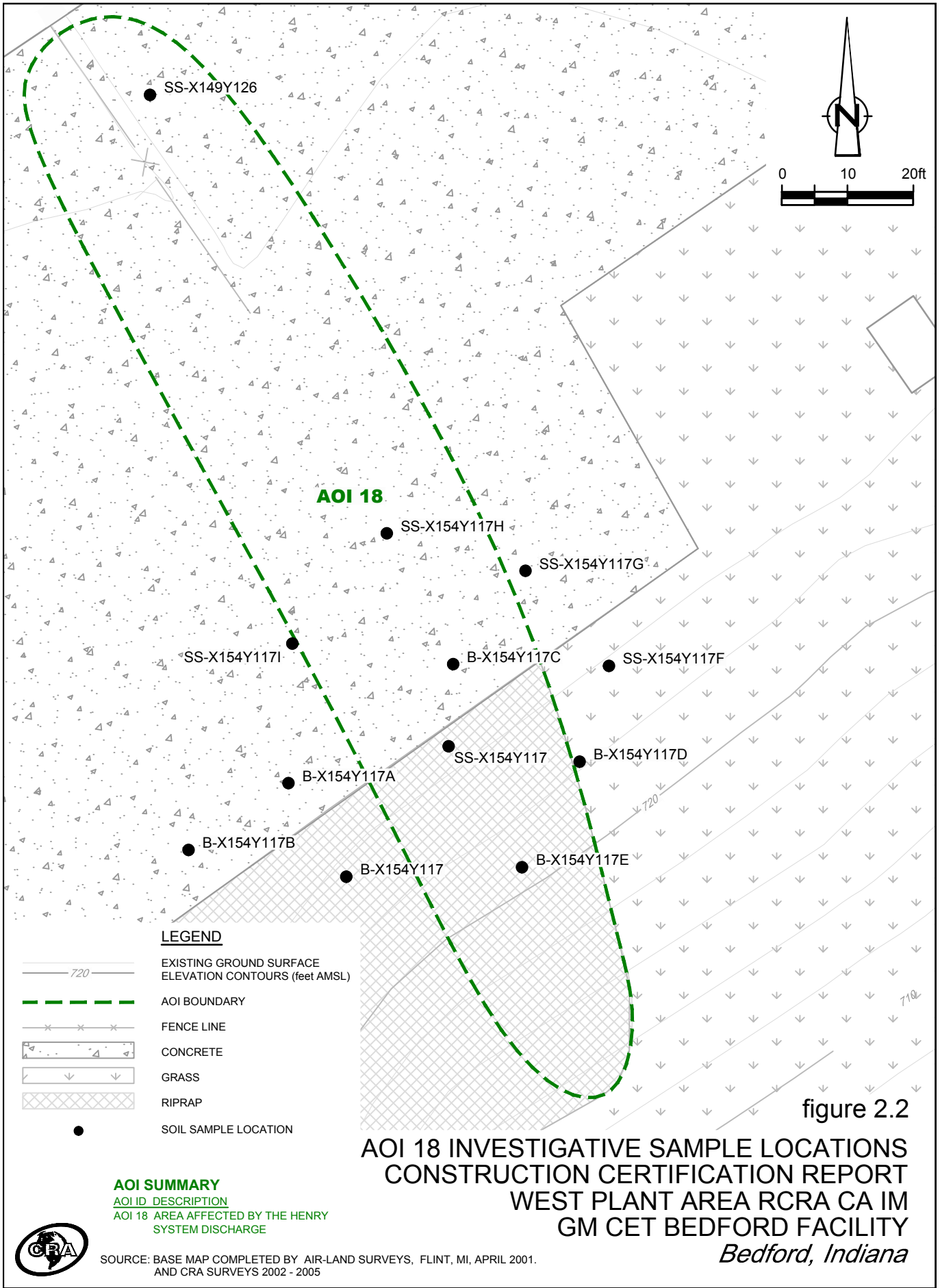
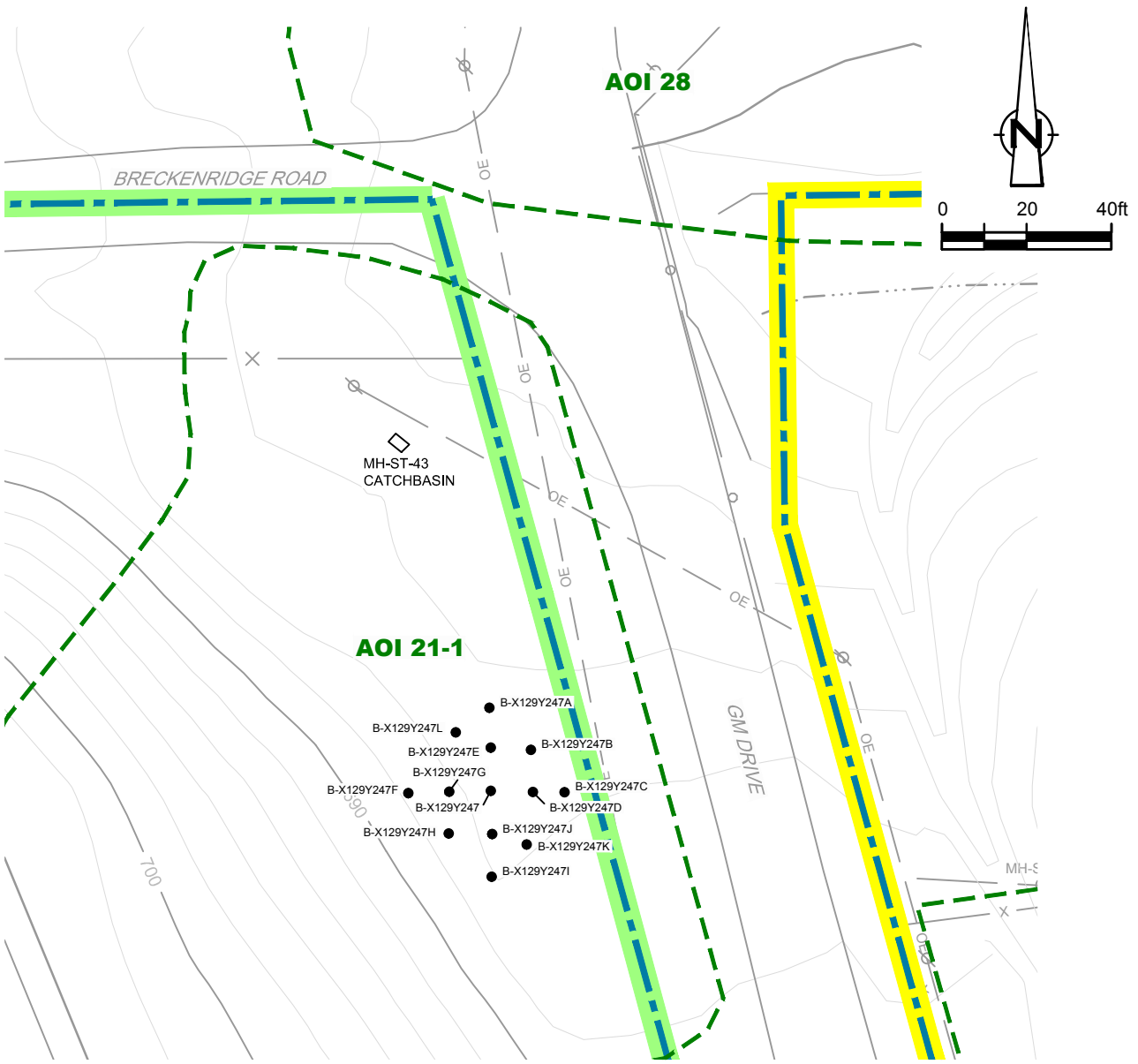


figure 2.1

**MH-ST-43 AND STORM SEWER NETWORK
INVESTIGATIVE SAMPLE LOCATIONS
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
Bedford, Indiana**





SOURCE: BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001.
AND CRA SURVEYS 2002 - 2005

LEGEND

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- AOI BOUNDARY
- APPROXIMATE FACILITY BOUNDARY
- FENCE LINE
- OVERHEAD POWER LINE
- WEST PLANT AREA BOUNDARY
- EAST PLANT AREA BOUNDARY
- SOIL SAMPLE LOCATION

AOI SUMMARY

AOI ID	Description
AOI 21-1	Former Drainage Valley Under Hourly Parking Lot
AOI 28	Off-Site Suspected Fill Area - Parcel 401

figure 2.3

**AOI 21-1 INVESTIGATIVE SAMPLE LOCATIONS
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
Bedford, Indiana**



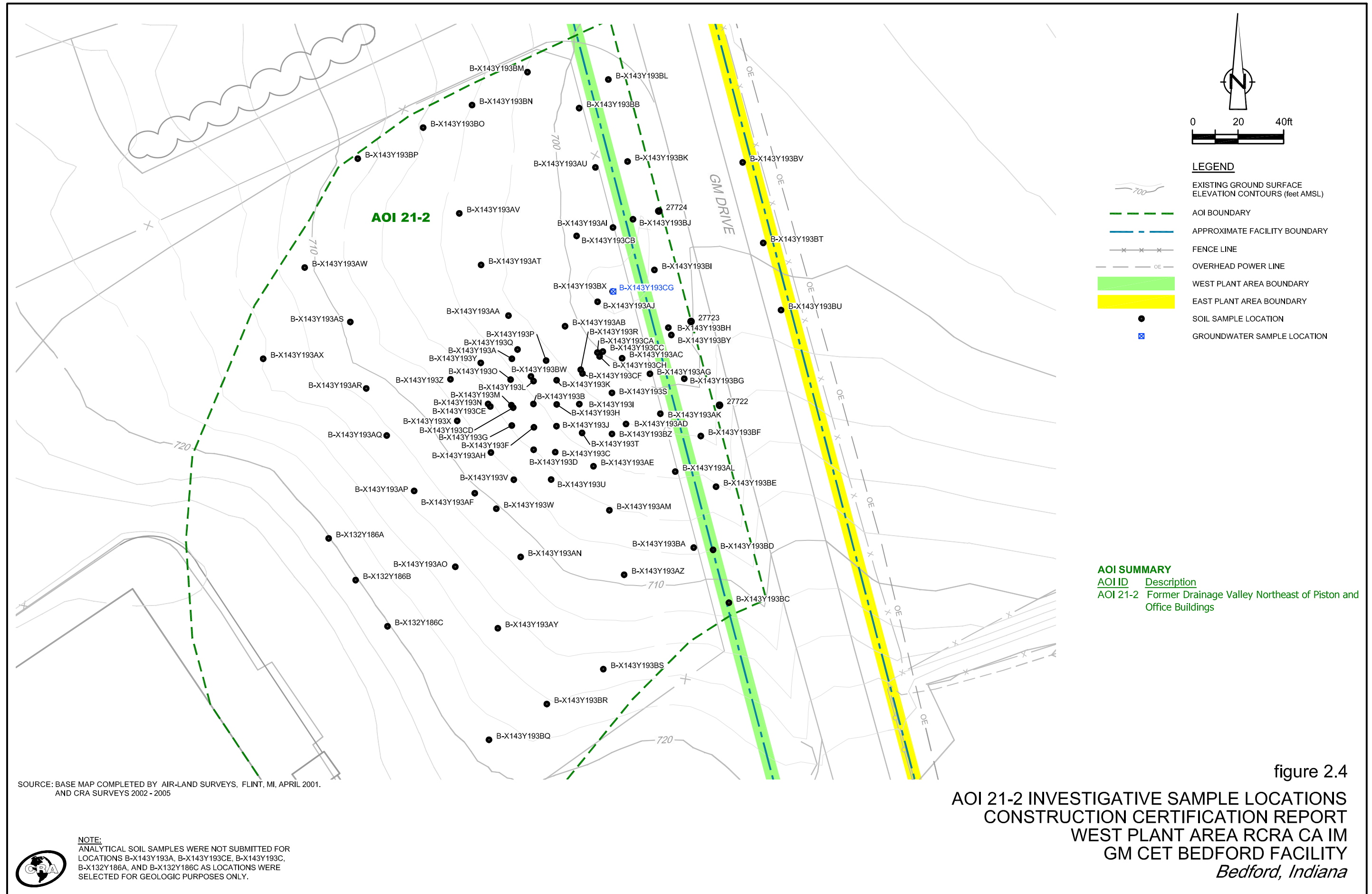
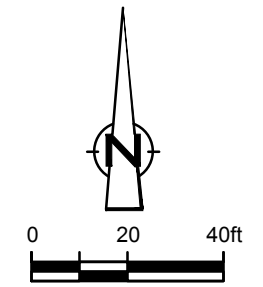
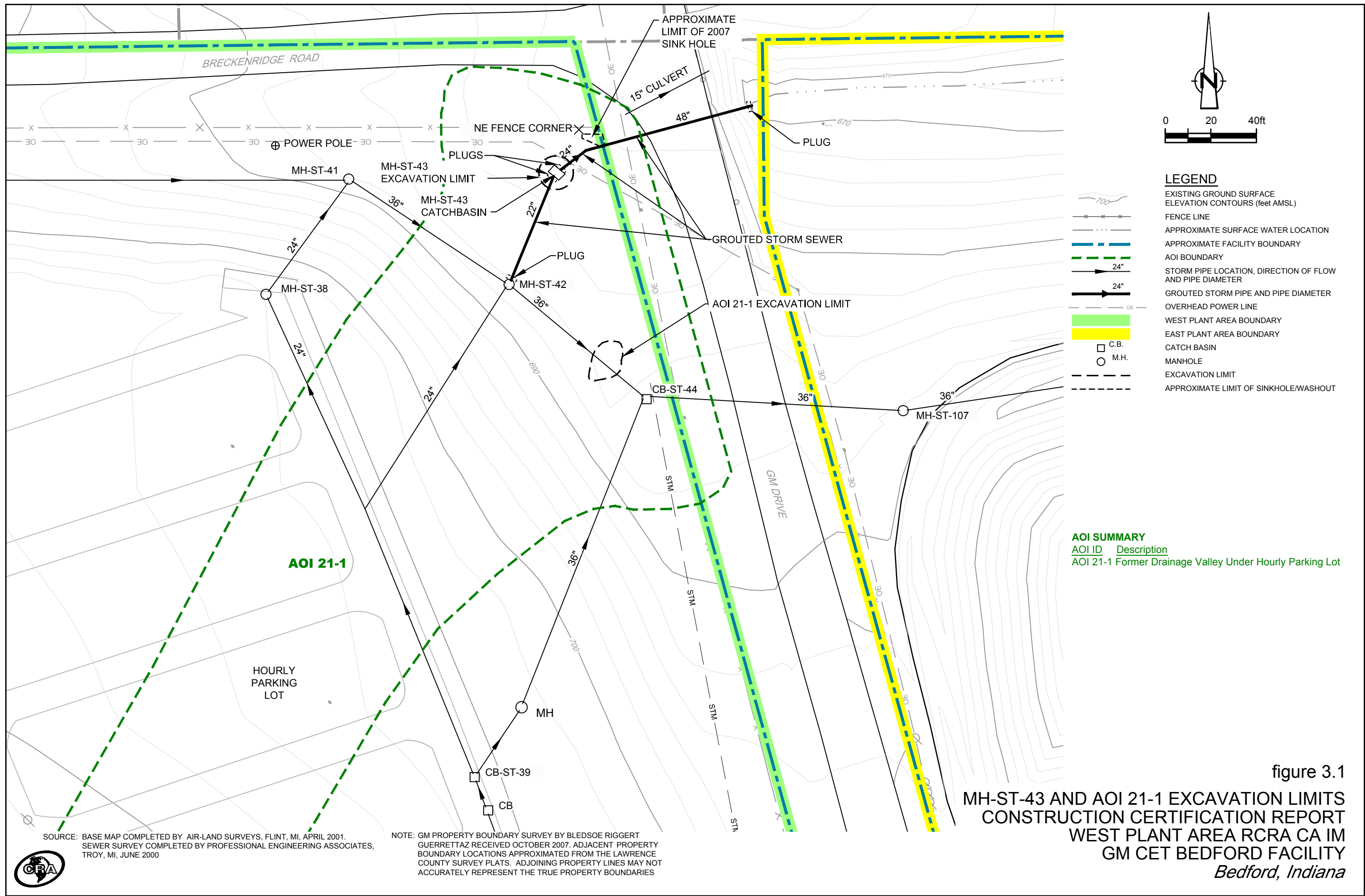


figure 2.4
AOI 21-2 INVESTIGATIVE SAMPLE LOCATIONS
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
Bedford, Indiana

SOURCE: BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001, AND CRA SURVEYS 2002 - 2005





- LEGEND**
- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
 - FENCE LINE
 - APPROXIMATE SURFACE WATER LOCATION
 - APPROXIMATE FACILITY BOUNDARY
 - AOI BOUNDARY
 - STORM PIPE LOCATION, DIRECTION OF FLOW AND PIPE DIAMETER
 - GROUTED STORM PIPE AND PIPE DIAMETER
 - OVERHEAD POWER LINE
 - WEST PLANT AREA BOUNDARY
 - EAST PLANT AREA BOUNDARY
 - C.B.
 - M.H.
 - EXCAVATION LIMIT
 - APPROXIMATE LIMIT OF SINKHOLE/WASHOUT

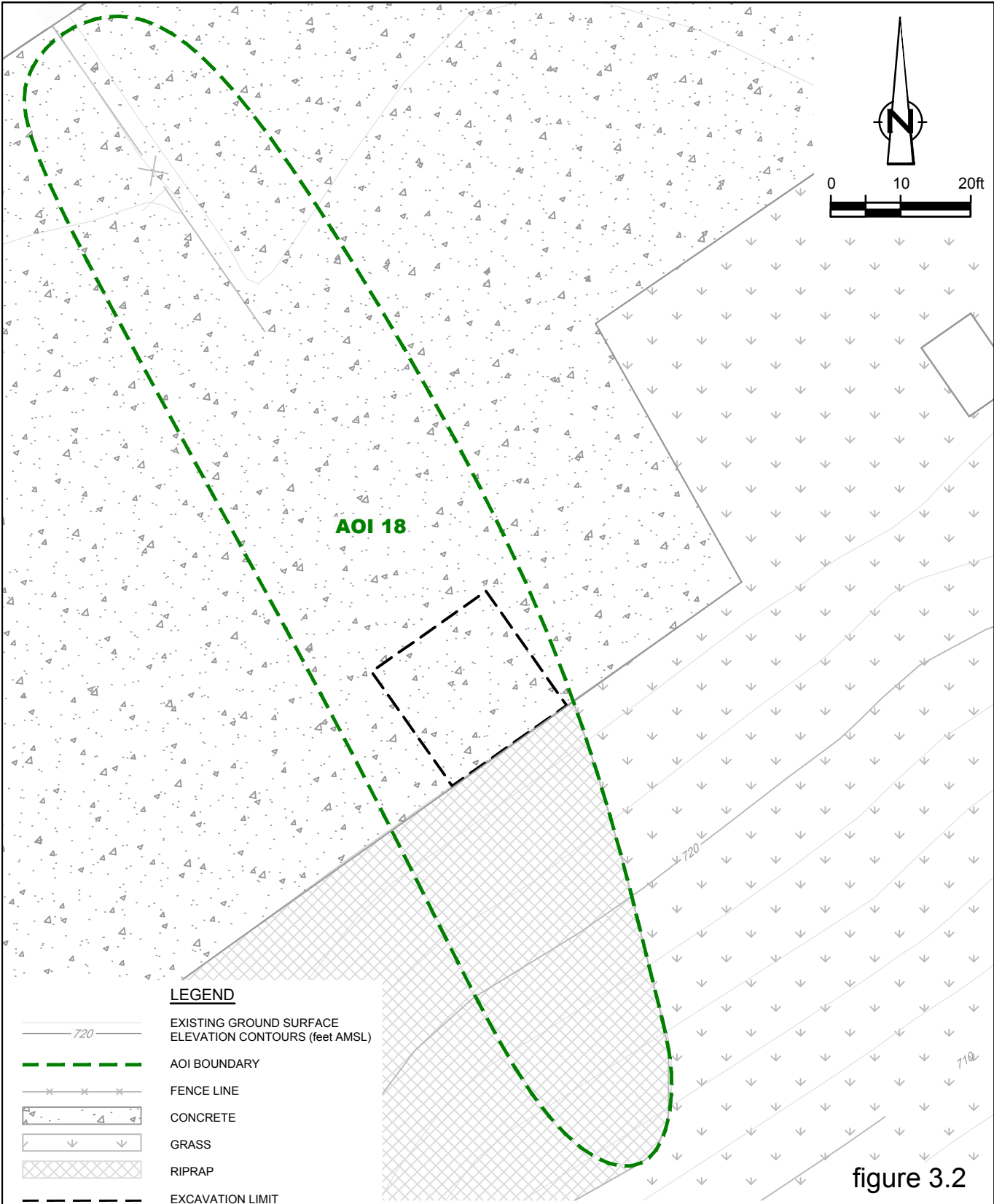
AOI SUMMARY

AOI ID	Description
AOI 21-1	Former Drainage Valley Under Hourly Parking Lot

SOURCE: BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001.
SEWER SURVEY COMPLETED BY PROFESSIONAL ENGINEERING ASSOCIATES, TROY, MI, JUNE 2000

NOTE: GM PROPERTY BOUNDARY SURVEY BY BLEDSOE RIGGERT GUERRETTAZ RECEIVED OCTOBER 2007. ADJACENT PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. ADJOINING PROPERTY LINES MAY NOT ACCURATELY REPRESENT THE TRUE PROPERTY BOUNDARIES

figure 3.1
MH-ST-43 AND AOI 21-1 EXCAVATION LIMITS
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
Bedford, Indiana



- LEGEND**
- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
 - AOI BOUNDARY
 - FENCE LINE
 - CONCRETE
 - GRASS
 - RIPRAP
 - EXCAVATION LIMIT

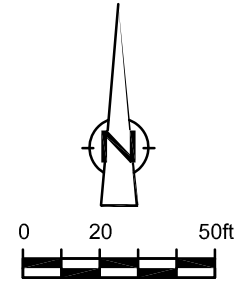
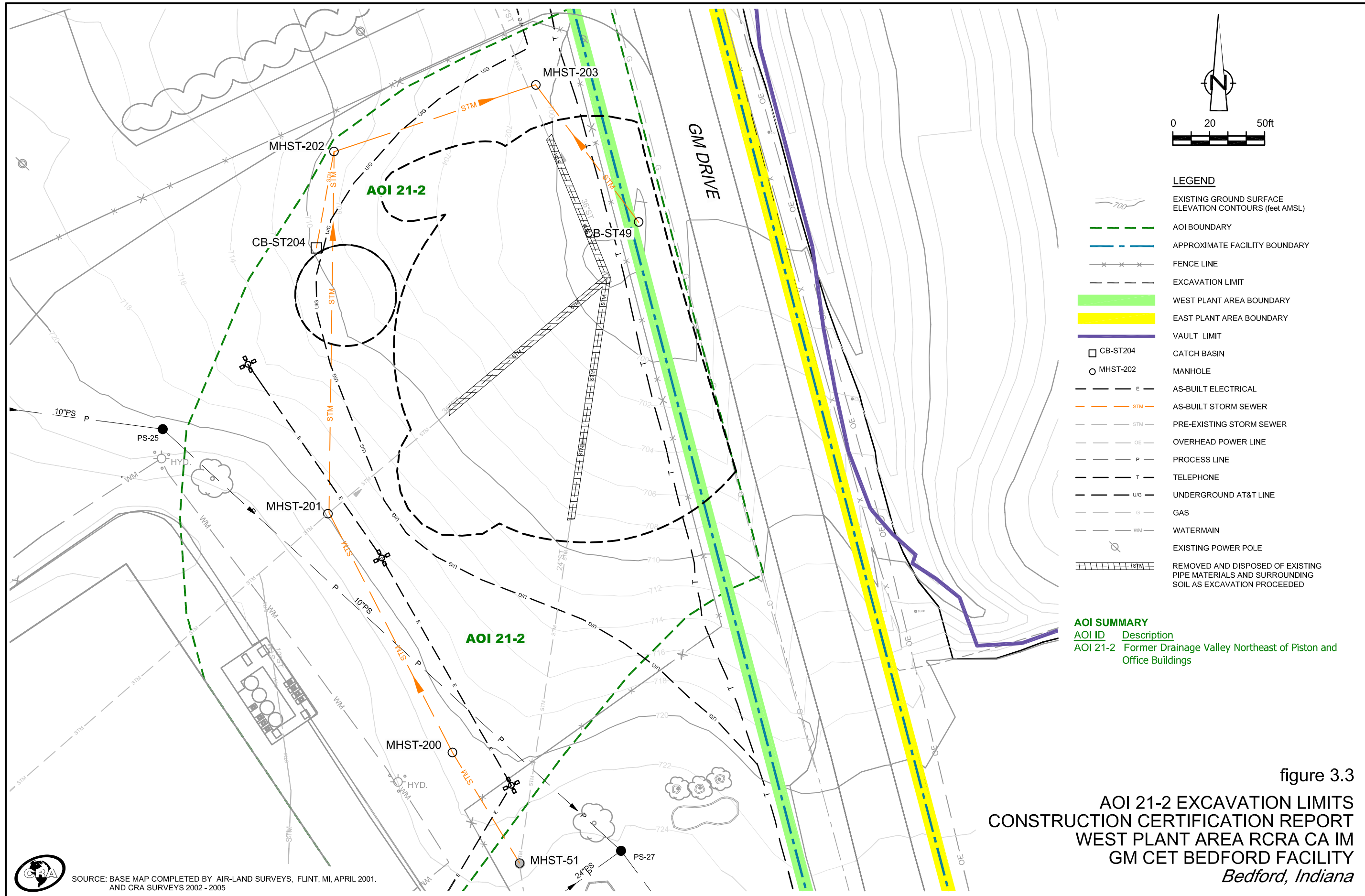
figure 3.2

**AOI 18 EXCAVATION LIMITS
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 Bedford, Indiana**

AOI SUMMARY
 AOI ID DESCRIPTION
 AOI 18 AREA AFFECTED BY THE HENRY
 SYSTEM DISCHARGE



SOURCE: BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001.
 AND CRA SURVEYS 2002 - 2005



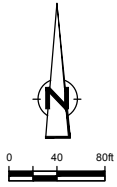
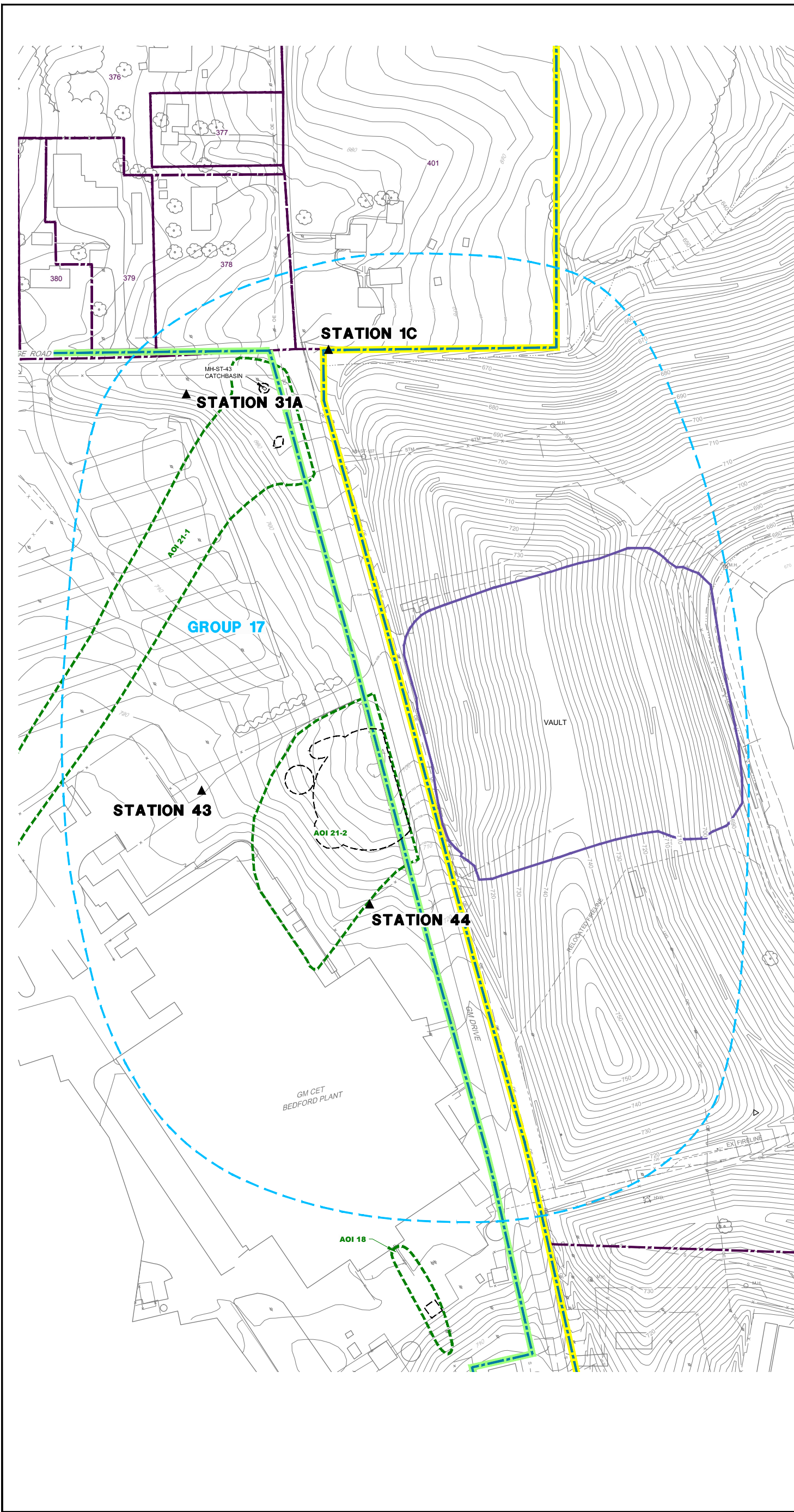
- LEGEND**
- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
 - AOI BOUNDARY
 - APPROXIMATE FACILITY BOUNDARY
 - FENCE LINE
 - EXCAVATION LIMIT
 - WEST PLANT AREA BOUNDARY
 - EAST PLANT AREA BOUNDARY
 - VAULT LIMIT
 - CB-ST204 CATCH BASIN
 - MHST-202 MANHOLE
 - AS-BUILT ELECTRICAL
 - AS-BUILT STORM SEWER
 - PRE-EXISTING STORM SEWER
 - OVERHEAD POWER LINE
 - PROCESS LINE
 - TELEPHONE
 - UNDERGROUND AT&T LINE
 - GAS
 - WATERMAIN
 - EXISTING POWER POLE
 - REMOVED AND DISPOSED OF EXISTING PIPE MATERIALS AND SURROUNDING SOIL AS EXCAVATION PROCEEDED

AOI SUMMARY

AOI ID	Description
AOI 21-2	Former Drainage Valley Northeast of Piston and Office Buildings

SOURCE: BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001. AND CRA SURVEYS 2002 - 2005

figure 3.3
 AOI 21-2 EXCAVATION LIMITS
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 Bedford, Indiana



LEGEND

- EXISTING VEGETATION
- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE FACILITY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- AOI BOUNDARY
- EXCAVATION LIMIT
- WEST PLANT AREA BOUNDARY
- EAST PLANT AREA BOUNDARY
- VAULT LIMIT
- EXISTING AIR MONITORING STATION LOCATION

AOI SUMMARY

AOI ID	Description
AOI 18	Area Affected by the Henry System Discharge
AOI 21-1	Former Drainage Valley Under Hourly Parking Lot
AOI 21-2	Former Drainage Valley Northeast of Piston and Office Buildings

NOTE: GM PROPERTY BOUNDARY SURVEY BY BLEDSOE RIGGETT GUERRETZ RECEIVED OCTOBER 2007. ADJACENT PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. ADJOINING PROPERTY LINES MAY NOT ACCURATELY REPRESENT THE TRUE PROPERTY BOUNDARIES

No	Revision	Date	Initial

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved _____

GM CET BEDFORD FACILITY
BEDFORD, INDIANA

CONSTRUCTION CERTIFICATION REPORT, WEST PLANT AREA RCRA CA I

GROUP 17 AIR MONITORING LOCATIONS

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001 AND CRA SURVEYS 2002 TO 2006

Project Manager: J.M.	Reviewed By: S.G.	Date: FEBRUARY 2014
Scale: AS SHOWN	Project N ^o : 13968-00	Report N ^o : 302
		Drawing N ^o : figure 8.1

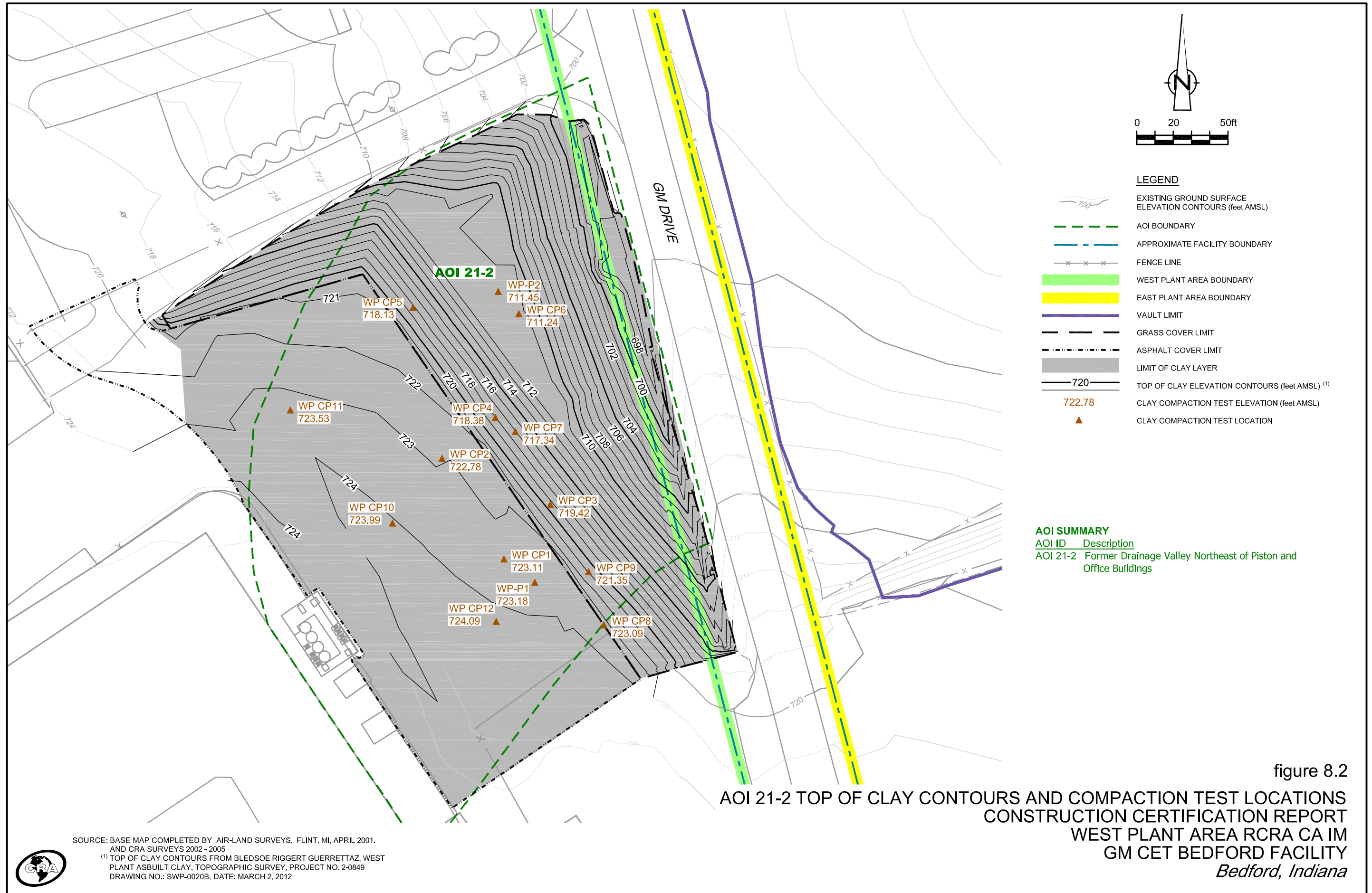


figure 8.2
 AOI 21-2 TOP OF CLAY CONTOURS AND COMPACTION TEST LOCATIONS
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 Bedford, Indiana

SOURCE: BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001, AND CRA SURVEYS 2002 - 2005
⁽¹⁾ TOP OF CLAY CONTOURS FROM BLEDSOE RIGGERT GUERRETTAZ, WEST PLANT ASBUILT CLAY, TOPOGRAPHIC SURVEY, PROJECT NO. 2-0849
 DRAWING NO.: SWP-0020B, DATE: MARCH 2, 2012



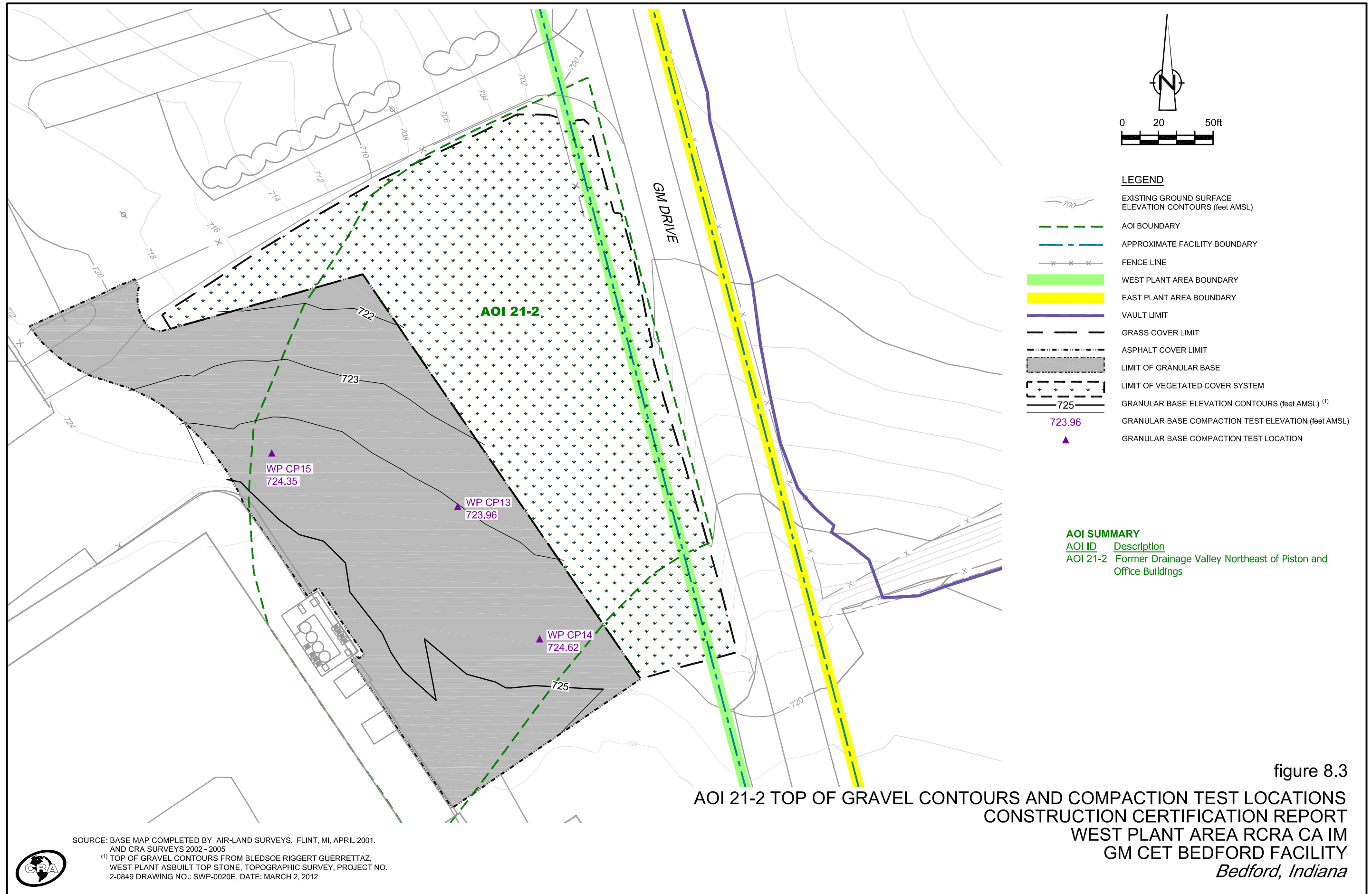


figure 8.3
 AOI 21-2 TOP OF GRAVEL CONTOURS AND COMPACTION TEST LOCATIONS
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 Bedford, Indiana

SOURCE: BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001.
 AND CRA SURVEYS 2002 - 2005
⁽¹⁾ TOP OF GRAVEL CONTOURS FROM BLEDSOE RIGGERT GUERRETTAZ,
 WEST PLANT ASBUILT TOP STONE, TOPOGRAPHIC SURVEY, PROJECT NO.
 2-0849 DRAWING NO.: SWP-0020E, DATE: MARCH 2, 2012



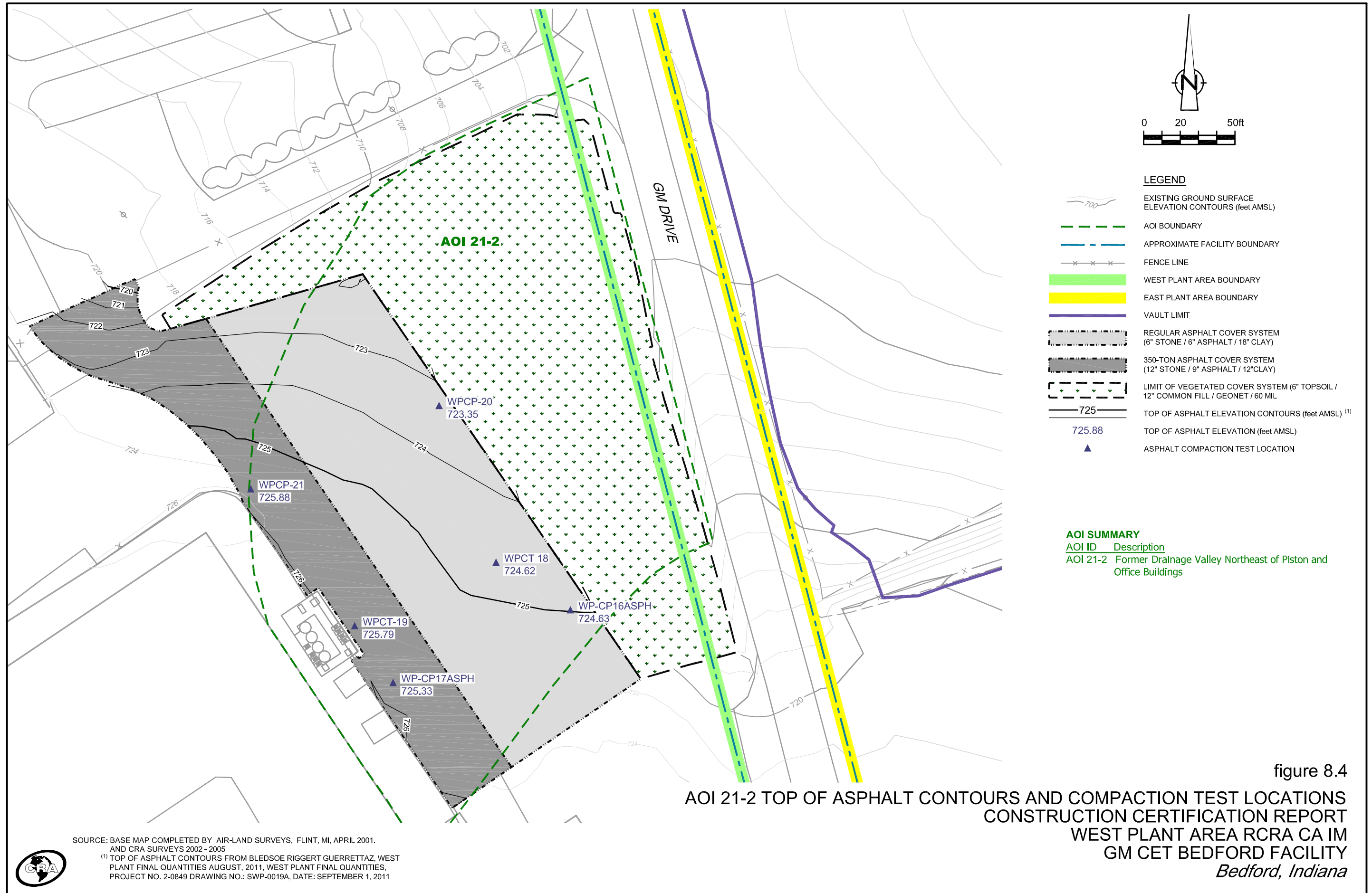


figure 8.4
 AOI 21-2 TOP OF ASPHALT CONTOURS AND COMPACTION TEST LOCATIONS
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 Bedford, Indiana

SOURCE: BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001.
 AND CRA SURVEYS 2002 - 2005
 (1) TOP OF ASPHALT CONTOURS FROM BLEDSOE RIGGERT GUERRETTAZ, WEST
 PLANT FINAL QUANTITIES AUGUST, 2011, WEST PLANT FINAL QUANTITIES,
 PROJECT NO. 2-0849 DRAWING NO.: SWP-0019A, DATE: SEPTEMBER 1, 2011



TABLE 2.1

MH-ST-43 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

AOI:	A021_WestPlantArea	A021_WestPlantArea	A021_WestPlantArea	A021-1_A021_WestPlantArea	A021-1_A021_WestPlantArea	A021-1_A021_WestPlantArea	
Sample Location:	CB-ST-3	MH-ST-43	MH-ST-43	Catch Basin Test Pit #1	Catch Basin Test Pit #1	Catch Basin Test Pit #2	
Sample Identification:	S-CB3-112403-KB-4135	S-MH43-110503-KB-4133	S-MH43-110503-KB-4134 (LOWER)	S-051004-KMV-578	S-051004-KMV-579	S-051004-KMV-580	
Sample Date:	11/24/2003	11/5/2003	11/5/2003	5/10/2004	5/10/2004	5/10/2004	
Sample Depth:	-	-	-	(0-2) ft	(4-5) ft	(0-2) ft	
Sample Type:							
	Units						
Metals							
Aluminum	mg/kg	--	--	--	13800	40900	10200
Antimony	mg/kg	--	--	--	7.0 U	8.7 U	7.1 U
Arsenic	mg/kg	--	--	--	5.8	1.5 U	3.6
Barium	mg/kg	--	--	--	60.1	5.7 J	34.7
Beryllium	mg/kg	--	--	--	0.58 U	0.73 U	0.59 U
Cadmium	mg/kg	--	--	--	0.58 U	0.73 U	0.59 U
Chromium	mg/kg	--	--	--	35.3	4.0	29.1
Cobalt	mg/kg	--	--	--	13.6	0.65 J	8.0
Copper	mg/kg	--	--	--	132	528	99.1
Iron	mg/kg	--	--	--	13700	974	9070
Lead	mg/kg	--	--	--	40.0	62.6	261
Manganese	mg/kg	--	--	--	500	21.4	283
Mercury	mg/kg	--	--	--	2.4	0.28	5.0
Nickel	mg/kg	--	--	--	95.2	6.1	103
Selenium	mg/kg	--	--	--	0.58 U	0.73 U	0.59 U
Silver	mg/kg	--	--	--	1.2 U	1.5 U	1.2 U
Thallium	mg/kg	--	--	--	1.2 U	0.89 J	1.2 U
Vanadium	mg/kg	--	--	--	22.3	5.1 J	13.9
Zinc	mg/kg	--	--	--	67.5	30.8	49.9
PCBs							
Aroclor-1016 (PCB-1016)	mg/kg	0.04 U	7400 U	0.41 U	0.039 U	0.048 U	0.039 U
Aroclor-1221 (PCB-1221)	mg/kg	0.04 U	7400 U	0.41 U	0.039 U	0.048 U	0.039 U
Aroclor-1232 (PCB-1232)	mg/kg	0.04 U	7400 U	0.41 U	0.039 U	0.048 U	0.039 U
Aroclor-1242 (PCB-1242)	mg/kg	0.04 U	7400 U	0.41 U	0.039 U	0.048 U	0.039 U
Aroclor-1248 (PCB-1248)	mg/kg	0.038 J	58000	4.8	0.039 U	0.057	0.039 U
Aroclor-1254 (PCB-1254)	mg/kg	0.04 U	7400 U	0.41 U	0.28	0.048 U	0.35
Aroclor-1260 (PCB-1260)	mg/kg	0.04 U	5800 J	2.4	0.039 U	0.048 U	0.039 U
Total PCBs	mg/kg	0.038 J	63800 J	7.2	0.28	0.057	0.35

TABLE 2.1

**MH-ST-43 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

AOI:	A021_WestPlantArea	A021_WestPlantArea	A021_WestPlantArea	A021-1_A021_WestPlantArea	A021-1_A021_WestPlantArea	A021-1_A021_WestPlantArea
Sample Location:	CB-ST-3	MH-ST-43	MH-ST-43	Catch Basin Test Pit #1	Catch Basin Test Pit #1	Catch Basin Test Pit #2
Sample Identification:	S-CB3-112403-KB-4135	S-MH43-110503-KB-4133	S-MH43-110503-KB-4134 (LOWER)	S-051004-KMV-578	S-051004-KMV-579	S-051004-KMV-580
Sample Date:	11/24/2003	11/5/2003	11/5/2003	5/10/2004	5/10/2004	5/10/2004
Sample Depth:	-	-	-	(0-2) ft	(4-5) ft	(0-2) ft
Sample Type:						
	Units					
Semi-Volatile Organic Compounds (SVOCs)						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	--	--	--	0.39 U	0.48 U
2,4,5-Trichlorophenol	mg/kg	--	--	--	0.39 U	0.48 U
2,4,6-Trichlorophenol	mg/kg	--	--	--	0.39 U	0.48 U
2,4-Dichlorophenol	mg/kg	--	--	--	0.39 U	0.48 U
2,4-Dimethylphenol	mg/kg	--	--	--	0.39 U	0.48 U
2,4-Dinitrophenol	mg/kg	--	--	--	1.9 U	2.3 U
2,4-Dinitrotoluene	mg/kg	--	--	--	0.39 U	0.48 U
2,6-Dinitrotoluene	mg/kg	--	--	--	0.39 U	0.48 U
2-Chloronaphthalene	mg/kg	--	--	--	0.39 U	0.48 U
2-Chlorophenol	mg/kg	--	--	--	0.39 U	0.48 U
2-Methylnaphthalene	mg/kg	--	--	--	0.39 U	0.48 U
2-Methylphenol	mg/kg	--	--	--	0.39 U	0.48 U
2-Nitroaniline	mg/kg	--	--	--	1.9 U	2.3 U
2-Nitrophenol	mg/kg	--	--	--	0.39 U	0.48 U
3,3'-Dichlorobenzidine	mg/kg	--	--	--	1.9 U	2.3 U
3-Nitroaniline	mg/kg	--	--	--	1.9 U	2.3 U
4,6-Dinitro-2-methylphenol	mg/kg	--	--	--	1.9 U	2.3 U
4-Bromophenyl phenyl ether	mg/kg	--	--	--	0.39 U	0.48 U
4-Chloro-3-methylphenol	mg/kg	--	--	--	0.39 U	0.48 U
4-Chloroaniline	mg/kg	--	--	--	0.39 U	0.48 U
4-Chlorophenyl phenyl ether	mg/kg	--	--	--	0.39 U	0.48 U
4-Methylphenol	mg/kg	--	--	--	0.39 U	0.48 U
4-Nitroaniline	mg/kg	--	--	--	1.9 U	2.3 U
4-Nitrophenol	mg/kg	--	--	--	1.9 U	2.3 U
Acenaphthene	mg/kg	--	--	--	0.39 U	0.48 U
Acenaphthylene	mg/kg	--	--	--	0.39 U	0.48 U
Acetophenone	mg/kg	--	--	--	0.39 U	0.48 U
Anthracene	mg/kg	--	--	--	0.39 U	0.48 U
Atrazine	mg/kg	--	--	--	0.39 U	0.48 U
Benzaldehyde	mg/kg	--	--	--	0.033 J	0.48 U
Benzo(a)anthracene	mg/kg	--	--	--	0.022 J	0.48 U
Benzo(a)pyrene	mg/kg	--	--	--	0.027 J	0.48 U
Benzo(b)fluoranthene	mg/kg	--	--	--	0.038 J	0.48 UJ
Benzo(g,h,i)perylene	mg/kg	--	--	--	0.027 J	0.48 U
Benzo(k)fluoranthene	mg/kg	--	--	--	0.39 U	0.48 U
Biphenyl (1,1-Biphenyl)	mg/kg	--	--	--	0.39 U	0.48 U
bis(2-Chloroethoxy)methane	mg/kg	--	--	--	0.39 U	0.48 U
bis(2-Chloroethyl)ether	mg/kg	--	--	--	0.39 U	0.48 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	--	--	--	0.39 U	0.48 U
Butyl benzylphthalate (BBP)	mg/kg	--	--	--	0.39 U	0.48 U

TABLE 2.1

MH-ST-43 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

AOI:		A021_WestPlantArea	A021_WestPlantArea	A021_WestPlantArea	A021-1_A021_WestPlantArea	A021-1_A021_WestPlantArea	A021-1_A021_WestPlantArea
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Sample Identification:		S-CB3-112403-KB-4135	S-MH43-110503-KB-4133	S-MH43-110503-KB-4134 (LOWER)	S-051004-KMV-578	S-051004-KMV-579	S-051004-KMV-580
Sample Date:		11/24/2003	11/5/2003	11/5/2003	5/10/2004	5/10/2004	5/10/2004
Sample Depth:		-	-	-	(0-2) ft	(4-5) ft	(0-2) ft
Sample Type:							
	Units						
Caprolactam	mg/kg	--	--	--	0.39 U	0.48 U	0.39 U
Carbazole	mg/kg	--	--	--	0.39 U	0.48 U	0.39 U
Chrysene	mg/kg	--	--	--	0.027 J	0.48 U	0.39 U
Dibenz(a,h)anthracene	mg/kg	--	--	--	0.39 U	0.48 U	0.39 U
Dibenzofuran	mg/kg	--	--	--	0.39 U	0.48 U	0.39 UJ
Diethyl phthalate	mg/kg	--	--	--	0.39 U	0.48 U	0.39 UJ
Dimethyl phthalate	mg/kg	--	--	--	0.39 U	0.48 U	0.39 UJ
Di-n-butylphthalate (DBP)	mg/kg	--	--	--	0.39 U	0.48 U	0.39 U
Di-n-octyl phthalate (DnOP)	mg/kg	--	--	--	0.39 U	0.48 U	0.39 U
Fluoranthene	mg/kg	--	--	--	0.036 J	0.48 U	0.02 J
Fluorene	mg/kg	--	--	--	0.39 U	0.48 U	0.39 UJ
Hexachlorobenzene	mg/kg	--	--	--	0.39 U	0.48 U	0.39 U
Hexachlorobutadiene	mg/kg	--	--	--	0.39 U	0.48 U	0.39 UJ
Hexachlorocyclopentadiene	mg/kg	--	--	--	1.9 U	2.3 U	1.9 UJ
Hexachloroethane	mg/kg	--	--	--	0.39 U	0.48 U	0.39 U
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	0.023 J	0.48 U	0.39 U
Isophorone	mg/kg	--	--	--	0.39 U	0.48 U	0.39 UJ
Naphthalene	mg/kg	--	--	--	0.39 U	0.48 U	0.39 UJ
Nitrobenzene	mg/kg	--	--	--	0.39 U	0.48 U	0.39 UJ
N-Nitrosodi-n-propylamine	mg/kg	--	--	--	0.39 U	0.48 U	0.39 U
N-Nitrosodiphenylamine	mg/kg	--	--	--	0.39 U	0.48 U	0.39 U
Pentachlorophenol	mg/kg	--	--	--	0.39 U	0.48 U	0.39 U
Phenanthrene	mg/kg	--	--	--	0.39 U	0.48 U	0.39 U
Phenol	mg/kg	--	--	--	0.39 U	0.48 U	0.39 U
Pyrene	mg/kg	--	--	--	0.032 J	0.48 U	0.016 J
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	mg/kg	--	--	--	0.0058 U	0.0083 U	0.0051 U
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	0.0058 U	0.0083 U	0.0051 U
1,1,2-Trichloroethane	mg/kg	--	--	--	0.0058 U	0.0083 U	0.0051 U
1,1-Dichloroethane	mg/kg	--	--	--	0.0058 U	0.0083 U	0.0051 U
1,1-Dichloroethene	mg/kg	--	--	--	0.0058 U	0.0083 U	0.0051 U
1,2,4-Trichlorobenzene	mg/kg	--	--	--	0.0058 U	0.0083 UJ	0.0051 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	--	--	--	0.012 U	0.017 UJ	0.01 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	--	--	--	0.0058 U	0.0083 U	0.0051 U
1,2-Dichlorobenzene	mg/kg	--	--	--	0.0058 U	0.0083 UJ	0.0051 U
1,2-Dichloroethane	mg/kg	--	--	--	0.0058 U	0.0083 U	0.0051 U
1,2-Dichloropropane	mg/kg	--	--	--	0.0058 U	0.0083 U	0.0051 U
1,3-Dichlorobenzene	mg/kg	--	--	--	0.0058 U	0.0083 UJ	0.0051 U
1,4-Dichlorobenzene	mg/kg	--	--	--	0.0058 U	0.0083 UJ	0.0051 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	--	--	--	0.023 U	0.033 U	0.02 U

TABLE 2.1

MH-ST-43 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

AOI:	A021_WestPlantArea	A021_WestPlantArea	A021_WestPlantArea	A021-1_A021_WestPlantArea	A021-1_A021_WestPlantArea	A021-1_A021_WestPlantArea
Sample Location:	CB-ST-3	MH-ST-43	MH-ST-43	Catch Basin Test Pit #1	Catch Basin Test Pit #1	Catch Basin Test Pit #2
Sample Identification:	S-CB3-112403-KB-4135	S-MH43-110503-KB-4133	S-MH43-110503-KB-4134 (LOWER)	S-051004-KMV-578	S-051004-KMV-579	S-051004-KMV-580
Sample Date:	11/24/2003	11/5/2003	11/5/2003	5/10/2004	5/10/2004	5/10/2004
Sample Depth:	-	-	-	(0-2) ft	(4-5) ft	(0-2) ft
Sample Type:						
	Units					
2-Hexanone	mg/kg	--	--	0.023 U	0.033 U	0.02 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	--	--	0.023 U	0.033 U	0.02 U
Acetone	mg/kg	--	--	0.023 U	0.033 U	0.02 U
Benzene	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Bromodichloromethane	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Bromoform	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Bromomethane (Methyl bromide)	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Carbon disulfide	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Carbon tetrachloride	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Chlorobenzene	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Chloroethane	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Chloroform (Trichloromethane)	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Chloromethane (Methyl chloride)	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
cis-1,2-Dichloroethene	mg/kg	--	--	0.0029 U	0.0042 U	0.0025 U
cis-1,3-Dichloropropene	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Cyclohexane	mg/kg	--	--	0.012 U	0.017 U	0.01 U
Dibromochloromethane	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Dichlorodifluoromethane (CFC-12)	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Ethylbenzene	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Isopropyl benzene	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Methyl acetate	mg/kg	--	--	0.012	0.017 U	0.0051 J
Methyl cyclohexane	mg/kg	--	--	0.012 U	0.017 U	0.01 U
Methyl tert butyl ether (MTBE)	mg/kg	--	--	0.023 U	0.033 U	0.02 U
Methylene chloride	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Styrene	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Tetrachloroethene	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Toluene	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
trans-1,2-Dichloroethene	mg/kg	--	--	0.0029 U	0.0042 U	0.0025 U
trans-1,3-Dichloropropene	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Trichloroethene	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Trichlorofluoromethane (CFC-11)	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Trifluorotrchloroethane (Freon 113)	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Vinyl chloride	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U
Xylenes (total)	mg/kg	--	--	0.0058 U	0.0083 U	0.0051 U

TABLE 2.1

MH-ST-43 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

AOI:	A021_WestPlantArea	A021_WestPlantArea	A021_WestPlantArea	A021-1_A021_WestPlantArea	A021-1_A021_WestPlantArea	A021-1_A021_WestPlantArea
Sample Location:	CB-ST-3	MH-ST-43	MH-ST-43	Catch Basin Test Pit #1	Catch Basin Test Pit #1	Catch Basin Test Pit #2
Sample Identification:	S-CB3-112403-KB-4135	S-MH43-110503-KB-4133	S-MH43-110503-KB-4134 (LOWER)	S-051004-KMV-578	S-051004-KMV-579	S-051004-KMV-580
Sample Date:	11/24/2003	11/5/2003	11/5/2003	5/10/2004	5/10/2004	5/10/2004
Sample Depth:	-	-	-	(0-2) ft	(4-5) ft	(0-2) ft
Sample Type:						

	Units						
General Chemistry							
Cyanide (amenable)	mg/kg	--	--	--	0.58 U	0.73 U	0.59 U
Cyanide (total)	mg/kg	--	--	--	0.58 U	0.73 U	0.59 U
Total organic carbon (TOC)	mg/kg	--	--	--	--	--	--
Total solids	%	81.6	89.0	79.7	85.6	68.6	84.8

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.2

**AOI 18 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

Sample Location	B-X154Y117	B-X154Y117	B-X154Y117	B-X154Y117A	B-X154Y117A	B-X154Y117A	B-X154Y117B	B-X154Y117B	B-X154Y117B	B-X154Y117B	B-X154Y117C	B-X154Y117C	B-X154Y117D	B-X154Y117D	
Sample Identification	S-111203-JC-024	S-111203-JC-025	S-111203-JC-026	S-111203-JC-021	S-111203-JC-022	S-111203-JC-023	S-111003-JC-017	S-111003-JC-018	S-111003-JC-019	S-111003-JC-020	S-120104-DD-772	S-120104-DD-773	S-120204-DD-776	S-120204-DD-777	
Sample Date	11/12/2003	11/12/2003	11/12/2003	11/12/2003	11/12/2003	11/12/2003	11/10/2003	11/10/2003	11/10/2003	11/10/2003	12/1/2004	12/1/2004	12/2/2004	12/2/2004	
Sample Depth	(0-2)	(6-8)	(24-25)	(0-2)	(6-8)	(24-25)	(0-2)	(6-8)	(6-8)	(24-25)	(0-2)	(2-4)	(0-2)	(2-4)	
Sample Type	<i>Duplicate</i>														
<i>Units</i>															
Volatile Organic Compounds															
1,1,1-Trichloroethane	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
1,1,2-Trichloroethane	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
1,1-Dichloroethane	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
1,1-Dichloroethene	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.0089 U	0.013 U	0.013 U	0.53 U	0.012 U	0.014 U	0.0096 U	0.013 U	0.012 U	0.013 U	--	--	--	--
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
1,2-Dichloroethane	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
1,2-Dichloropropane	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
1,3-Dichlorobenzene	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
2-Butanone (Methyl Ethyl Ketone)	mg/kg	0.018 U	0.026 U	0.025 U	1.1 U	0.024 U	0.027 U	0.019 UJ	0.026 UJ	0.024 UJ	0.027 UJ	--	--	--	--
2-Hexanone	mg/kg	0.018 U	0.026 U	0.025 U	1.1 U	0.024 U	0.027 U	0.019 U	0.026 U	0.024 U	0.027 U	--	--	--	--
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	0.018 U	0.026 U	0.025 U	1.1 U	0.024 U	0.027 U	0.019 U	0.026 U	0.024 U	0.027 U	--	--	--	--
Acetone	mg/kg	0.018 UJ	0.026 UJ	0.012 J	0.34 J	0.011 J	0.017 J	0.019 UJ	0.013 J	0.013 J	0.012 J	--	--	--	--
Benzene	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.00054 J	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Bromodichloromethane	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Bromoform	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Bromomethane (Methyl Bromide)	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Carbon disulfide	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Carbon tetrachloride	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Chlorobenzene	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Chloroethane	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Chloroform (Trichloromethane)	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Chloromethane (Methyl Chloride)	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	0.0022 U	0.0033 U	0.0031 U	0.063 J	0.003 U	0.0034 U	0.0024 U	0.0032 U	0.003 U	0.0033 U	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Cyclohexane	mg/kg	0.0089 U	0.013 U	0.013 U	0.53 U	0.012 U	0.014 U	0.0096 U	0.013 U	0.012 U	0.013 U	--	--	--	--
Dibromochloromethane	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Dichlorodifluoromethane (CFC-12)	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Ethylbenzene	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Isopropylbenzene	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Methyl acetate	mg/kg	0.0089 U	0.013 U	0.013 U	0.53 U	0.012 U	0.014 U	0.0096 U	0.013 U	0.012 U	0.013 U	--	--	--	--
Methyl cyclohexane	mg/kg	0.0089 U	0.013 U	0.013 U	0.53 U	0.012 U	0.014 U	0.00072 J	0.013 U	0.012 U	0.013 U	--	--	--	--
Methyl Tert Butyl Ether	mg/kg	0.018 U	0.026 U	0.025 U	1.1 U	0.024 U	0.027 U	0.019 U	0.026 U	0.024 U	0.027 U	--	--	--	--
Methylene chloride	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Styrene	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Tetrachloroethene	mg/kg	0.0045 U	0.0065 U	0.0063 U	1.1	0.006 U	0.0069 U	0.00067 J	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Toluene	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.026 J	0.006 U	0.0069 U	0.00088 J	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	0.0022 U	0.0033 U	0.0031 U	0.13 U	0.003 U	0.0034 U	0.0024 U	0.0032 U	0.003 U	0.0033 U	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Trichloroethene	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.21 J	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Trichlorofluoromethane (CFC-11)	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Trifluorotrchloroethane (Freon 113)	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Vinyl chloride	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Xylene (total)	mg/kg	0.0045 U	0.0065 U	0.0063 U	0.26 U	0.006 U	0.0069 U	0.0048 U	0.0065 U	0.0059 U	0.0066 U	--	--	--	--
Semi-Volatile Organic Compounds															
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	--	--	--	--
2,4-Dichlorophenol	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	--	--	--	--
2,4-Dimethylphenol	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	--	--	--	--
2,4-Dinitrophenol	mg/kg	1.8 U	2.2 U	2.2 U	1.8 U	2 U	2.1 U	1.8 U	2 U	2 U	2 U	--	--	--	--

TABLE 2.2

AOI 18 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Sample Location	B-X154Y117	B-X154Y117	B-X154Y117	B-X154Y117A	B-X154Y117A	B-X154Y117A	B-X154Y117B	B-X154Y117B	B-X154Y117B	B-X154Y117B	B-X154Y117C	B-X154Y117C	B-X154Y117D	B-X154Y117D	
Sample Identification	S-111203-JC-024	S-111203-JC-025	S-111203-JC-026	S-111203-JC-021	S-111203-JC-022	S-111203-JC-023	S-111003-JC-017	S-111003-JC-018	S-111003-JC-019	S-111003-JC-020	S-120104-DD-772	S-120104-DD-773	S-120204-DD-776	S-120204-DD-777	
Sample Date	11/12/2003	11/12/2003	11/12/2003	11/12/2003	11/12/2003	11/12/2003	11/10/2003	11/10/2003	11/10/2003	11/10/2003	12/1/2004	12/1/2004	12/2/2004	12/2/2004	
Sample Depth	(0-2)	(6-8)	(24-25)	(0-2)	(6-8)	(24-25)	(0-2)	(6-8)	(6-8)	(24-25)	(0-2)	(2-4)	(0-2)	(2-4)	
Sample Type	<i>Duplicate</i>														
	<i>Units</i>														
2,4-Dinitrotoluene	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
2,6-Dinitrotoluene	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
2-Chloronaphthalene	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
2-Chlorophenol	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
2-Methylnaphthalene	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
2-Methylphenol	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
2-Nitroaniline	mg/kg	1.8 U	2.2 U	2.2 U	1.8 U	2 U	2.1 U	1.8 U	2 U	2 U	2 U	2 U	--	--	--
2-Nitrophenol	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
3,3'-Dichlorobenzidine	mg/kg	1.8 U	2.2 U	2.2 U	1.8 U	2 U	2.1 U	1.8 U	2 UJ	2 UJ	2 U	2 U	--	--	--
3-Nitroaniline	mg/kg	1.8 U	2.2 U	2.2 U	1.8 U	2 U	2.1 U	1.8 U	2 U	2 U	2 U	2 U	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	1.8 U	2.2 U	2.2 U	1.8 U	2 U	2.1 U	1.8 U	2 U	2 U	2 U	2 U	--	--	--
4-Bromophenyl phenyl ether	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
4-Chloro-3-methylphenol	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
4-Chloroaniline	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
4-Chlorophenyl phenyl ether	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
4-Methylphenol	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
4-Nitroaniline	mg/kg	1.8 U	2.2 U	2.2 U	1.8 U	2 U	2.1 U	1.8 U	2 U	2 U	2 U	2 U	--	--	--
4-Nitrophenol	mg/kg	1.8 UJ	2.2 UJ	2.2 UJ	1.8 U	2 UJ	2.1 UJ	1.8 U	2 UJ	2 UJ	2 U	2 U	--	--	--
Acenaphthene	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Acenaphthylene	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.074 J	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Acetophenone	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Anthracene	mg/kg	0.38 U	0.45 U	0.45 U	0.072 J	0.4 U	0.43 U	0.073 J	0.41 U	0.13 J	0.41 U	0.41 U	--	--	--
Atrazine	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Benzaldehyde	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Benzo(a)anthracene	mg/kg	0.021 J	0.08 J	0.45 U	0.08 J	0.4 U	0.43 U	0.04 J	0.41 UJ	0.41 UJ	0.41 U	0.41 U	--	--	--
Benzo(a)pyrene	mg/kg	0.033 J	0.098 J	0.45 U	0.098 J	0.024 J	0.43 U	0.084 J	0.11 J	0.11 J	0.41 U	0.41 U	--	--	--
Benzo(b)fluoranthene	mg/kg	0.031 J	0.11 J	0.45 U	0.19 J	0.032 J	0.43 U	0.11 J	0.11 J	0.13 J	0.41 U	0.41 U	--	--	--
Benzo(g,h,i)perylene	mg/kg	0.029 J	0.07 J	0.45 U	0.089 J	0.4 U	0.43 U	0.088 J	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Benzo(k)fluoranthene	mg/kg	0.38 U	0.035 J	0.45 U	0.13 J	0.4 U	0.43 U	0.03 J	0.41 U	0.12 J	0.41 U	0.41 U	--	--	--
Biphenyl	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
bis(2-Chloroethoxy)methane	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
bis(2-Chloroethyl)ether	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
bis(2-Ethylhexyl)phthalate	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 UJ	0.41 UJ	0.41 U	0.41 U	--	--	--
Butyl benzylphthalate	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 UJ	0.41 UJ	0.41 U	0.41 U	--	--	--
Caprolactam	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Carbazole	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Chrysene	mg/kg	0.027 J	0.1 J	0.45 U	0.12 J	0.033 J	0.43 U	0.071 J	0.41 UJ	0.028 J	0.41 U	0.41 U	--	--	--
Dibenz(a,h)anthracene	mg/kg	0.38 U	0.45 U	0.45 U	0.082 J	0.4 U	0.43 U	0.025 J	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Dibenzofuran	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.07 J	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Diethyl phthalate	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Dimethyl phthalate	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Di-n-butylphthalate	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.065 J	0.37 U	0.096 J	0.095 J	0.41 U	0.41 U	--	--	--
Di-n-octyl phthalate	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Fluoranthene	mg/kg	0.049 J	0.22 J	0.45 U	0.22 J	0.04 J	0.43 U	0.063 J	0.14 J	0.15 J	0.41 U	0.41 U	--	--	--
Fluorene	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Hexachlorobenzene	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Hexachlorobutadiene	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Hexachlorocyclopentadiene	mg/kg	1.8 U	2.2 U	2.2 U	1.8 UJ	2 UJ	2.1 UJ	1.8 U	2 U	2 U	2 U	2 U	--	--	--
Hexachloroethane	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	0.026 J	0.058 J	0.45 U	0.13 J	0.4 U	0.43 U	0.072 J	0.41 U	0.095 J	0.41 U	0.41 U	--	--	--
Isophorone	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Naphthalene	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Nitrobenzene	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
N-Nitrosodi-n-propylamine	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
N-Nitrosodiphenylamine	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Pentachlorophenol	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Phenanthrene	mg/kg	0.028 J	0.11 J	0.45 U	0.14 J	0.035 J	0.43 U	0.1 J	0.13 J	0.14 J	0.41 U	0.41 U	--	--	--
Phenol	mg/kg	0.38 U	0.45 U	0.45 U	0.38 U	0.4 U	0.43 U	0.37 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	--
Pyrene	mg/kg	0.047 J	0.21 J	0.45 U	0.18 J	0.034 J	0.43 U	0.061 J	0.41 UJ	0.034 J	0.41 U	0.41 U	--	--	--

TABLE 2.2

AOI 18 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Sample Location		B-X154Y117	B-X154Y117	B-X154Y117	B-X154Y117A	B-X154Y117A	B-X154Y117A	B-X154Y117B	B-X154Y117B	B-X154Y117B	B-X154Y117B	B-X154Y117C	B-X154Y117C	B-X154Y117D	B-X154Y117D
Sample Identification		S-111203-JC-024	S-111203-JC-025	S-111203-JC-026	S-111203-JC-021	S-111203-JC-022	S-111203-JC-023	S-111003-JC-017	S-111003-JC-018	S-111003-JC-019	S-111003-JC-020	S-120104-DD-772	S-120104-DD-773	S-120204-DD-776	S-120204-DD-777
Sample Date		11/12/2003	11/12/2003	11/12/2003	11/12/2003	11/12/2003	11/12/2003	11/10/2003	11/10/2003	11/10/2003	11/10/2003	12/1/2004	12/1/2004	12/2/2004	12/2/2004
Sample Depth		(0-2)	(6-8)	(24-25)	(0-2)	(6-8)	(24-25)	(0-2)	(6-8)	(6-8)	(24-25)	(0-2)	(2-4)	(0-2)	(2-4)
Sample Type		Duplicate													
	Units														
Metals															
Aluminum	mg/Kg	6770	13700	4950	633	9760	6500	6920	7800	4540	8050	--	--	--	--
Antimony	mg/Kg	6.9 UJ	1.1 J	8.1 UJ	6.9 UJ	1.6 J	0.56 J	6.7 UJ	0.75 J	0.95 J	0.28 J	--	--	--	--
Arsenic	mg/kg	3.9	5.7	5.9	2.3	7.8	4.0	11.1	4.8	5.3	6.7	--	--	--	--
Barium	mg/kg	31.9	41.8	13.5 J	14.9 J	57.7	25.0 J	121	45.3	43.1	58.1	--	--	--	--
Beryllium	mg/kg	0.21 J	0.85	2.7	0.58 U	0.60 J	1.1	0.097 J	0.32 J	0.27 J	3.8	--	--	--	--
Cadmium	mg/kg	0.22 J	0.17 J	0.42 J	0.84	0.49 J	0.37 J	0.99	0.37 J	0.50 J	0.68	--	--	--	--
Chromium Total	mg/kg	213 J	28.6 J	11.2 J	5.1 J	19.3 J	26.9 J	248 J	13.4 J	15.0 J	44.2 J	--	--	--	--
Cobalt	mg/kg	346	3.4 J	12.3	0.80 J	4.2 J	9.8	7.4	3.3 J	3.2 J	36.8	--	--	--	--
Copper	mg/Kg	30.1	53.7	17.5	16.3	41.0	14.0	86.7	24.5	24.7	17.7	--	--	--	--
Iron	mg/kg	11600	29500	12800	3370	26200	17300	14500	15400	15100	29100	--	--	--	--
Lead	mg/Kg	28.1 J	15.4 J	12.0 J	21.0 J	73.6 J	13.7 J	213 J	33.9 J	39.4 J	36.8 J	--	--	--	--
Manganese	mg/kg	98.4 J	53.7 J	308 J	69.6 J	198 J	408 J	464 J	68.2 J	152 J	1170 J	--	--	--	--
Mercury	mg/kg	0.23	0.039 J	0.12 J	0.042 J	0.049 J	0.053 J	1.1	0.043 J	0.048 J	0.027 J	--	--	--	--
Nickel	mg/kg	35.1	22.1	55.8	3.0 J	10.8	27.3	26.2	7.1	6.0	65.4	--	--	--	--
Selenium	mg/kg	0.57 U	0.63 J	0.68 U	0.68 U	0.61 U	0.65 U	2.5	0.62 U	0.62 U	0.63 U	--	--	--	--
Silver	mg/kg	1.1 U	1.4 U	1.4 U	1.2 U	1.2 U	1.3 U	0.33 J	1.2 U	1.2 U	1.3 U	--	--	--	--
Thallium	mg/kg	2.0	1.4 U	0.61 J	1.2 U	1.2 U	1.3 U	1.1	1.2 U	1.2 U	1.3 U	--	--	--	--
Vanadium	mg/kg	18.6	30.8	14.0	3.7 J	29.7	25.3	15.4	21.7	20.0	35.9	--	--	--	--
Zinc	mg/kg	43.1 J	111 J	46.5 J	80.4 J	96.4 J	43.8 J	241 J	73.7 J	81.6 J	88.5 J	--	--	--	--
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.038 U	0.045 U	0.045 U	0.038 U	0.04 UJ	0.043 U	0.037 U	0.041 U	0.041 U	0.041 U	20 U	0.04 U	0.41 U	0.042 U
Aroclor-1221 (PCB-1221)	mg/kg	0.038 U	0.045 U	0.045 U	0.038 U	0.04 UJ	0.043 U	0.037 U	0.041 U	0.041 U	0.041 U	20 U	0.04 U	0.41 U	0.042 U
Aroclor-1232 (PCB-1232)	mg/kg	0.038 U	0.045 U	0.045 U	0.038 U	0.04 UJ	0.043 U	0.037 U	0.041 U	0.041 U	0.041 U	20 U	0.04 U	0.41 U	0.042 U
Aroclor-1242 (PCB-1242)	mg/kg	0.038 U	0.045 U	0.045 U	0.038 U	0.04 UJ	0.043 U	0.037 U	0.041 U	0.041 U	0.041 U	140	0.075	0.41 U	0.042 U
Aroclor-1248 (PCB-1248)	mg/kg	0.079	0.045 U	0.045 U	0.019 J	0.04 UJ	0.043 U	0.018 J	0.041 U	0.041 U	0.041 U	20 U	0.04 U	1.4	0.13
Aroclor-1254 (PCB-1254)	mg/kg	0.038 U	0.045 U	0.045 U	0.038 U	0.04 UJ	0.043 U	0.037 U	0.041 U	0.041 U	0.041 U	20 U	0.04 U	0.41 U	0.042 U
Aroclor-1260 (PCB-1260)	mg/kg	0.038 U	0.045 U	0.045 U	0.038 U	0.04 UJ	0.043 U	0.037 U	0.041 U	0.041 U	0.041 U	20 U	0.04 U	0.39 J	0.022 J
Total PCBs	mg/kg	0.079	0	0	0.019 J	0	0	0.018 J	0	0	0	140	0.075	1.79 J	0.152 J
Wet															
Cyanide (amenable)	mg/kg	0.57 U	0.68 U	0.68 U	0.58 U	0.61 U	0.65 U	0.56 U	0.62 U	0.62 U	0.63 U	--	--	--	--
Cyanide (total)	mg/Kg	0.57 U	0.68 U	0.68 U	0.58 U	0.61 U	0.65 U	0.56 U	0.62 U	0.62 U	0.63 U	--	--	--	--
Total Solids	%	87.4	73.7	74.0	86.7	81.8	77.4	89.5	80.3	80.9	79.7	82.7	82.9	80.2	78.3

Notes:

- U - Not present at or above the associated value.
- J - Estimated concentration.
- UJ - Estimated reporting limit.
- mg/kg - milogram per kilogram
- % - percent

TABLE 2.2

**AOI 18 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

Sample Location		B-X154Y117E	B-X154Y117E	SS-X149Y126	SS-X154Y117	SS-X154Y117F	SS-X154Y117G	SS-X154Y117H	SS-X154Y117I
Sample Identification		S-120204-DD-774	S-120204-DD-775	SS-012802-MG-002	SS-012802-MG-003	S-AOI18-082806-AH-11941	S-AOI18-082806-AH-11940	S-AOI18-082906-GD-11951	S-AOI18-082906-GD-11950
Sample Date		12/2/2004	12/2/2004	1/28/2002	1/28/2002	8/28/2006	8/28/2006	8/29/2006	8/29/2006
Sample Depth		(0-2)	(2-4)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)
Sample Type									
	Units								
Volatile Organic Compounds									
1,1,1-Trichloroethane	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	--	--	0.016 U	0.011 U	--	--	--	--
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
2-Butanone (Methyl Ethyl Ketone)	mg/kg	--	--	0.032 U	0.022 U	--	--	--	--
2-Hexanone	mg/kg	--	--	0.032 U	0.022 U	--	--	--	--
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	--	--	0.032 U	0.022 U	--	--	--	--
Acetone	mg/kg	--	--	0.032 UJ	0.022 UJ	--	--	--	--
Benzene	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Bromodichloromethane	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Bromoform	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Bromomethane (Methyl Bromide)	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Carbon disulfide	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Carbon tetrachloride	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Chlorobenzene	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Chloroethane	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Chloroform (Trichloromethane)	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Chloromethane (Methyl Chloride)	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	0.004 U	0.0028 U	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Cyclohexane	mg/kg	--	--	0.016 U	0.011 U	--	--	--	--
Dibromochloromethane	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Dichlorodifluoromethane (CFC-12)	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Ethylbenzene	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Isopropylbenzene	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Methyl acetate	mg/kg	--	--	0.016 U	0.0026 J	--	--	--	--
Methyl cyclohexane	mg/kg	--	--	0.016 U	0.011 U	--	--	--	--
Methyl Tert Butyl Ether	mg/kg	--	--	0.032 U	0.022 U	--	--	--	--
Methylene chloride	mg/kg	--	--	0.004 J	0.0073	--	--	--	--
Styrene	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Tetrachloroethene	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Toluene	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	0.004 U	0.0028 U	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Trichloroethene	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Trichlorofluoromethane (CFC-11)	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Trifluorotrchloroethane (Freon 113)	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Vinyl chloride	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Xylene (total)	mg/kg	--	--	0.0079 U	0.0056 U	--	--	--	--
Semi-Volatile Organic Compounds									
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	--	--	0.44 U	0.36 U	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	--	--	0.44 U	0.36 U	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	--	--	0.44 U	0.36 U	--	--	--	--
2,4-Dichlorophenol	mg/kg	--	--	0.44 U	0.36 U	--	--	--	--
2,4-Dimethylphenol	mg/kg	--	--	0.44 U	0.36 U	--	--	--	--
2,4-Dinitrophenol	mg/kg	--	--	2.1 U	1.7 U	--	--	--	--

TABLE 2.2

AOI 18 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Sample Location	B-X154Y117E	B-X154Y117E	SS-X149Y126	SS-X154Y117	SS-X154Y117F	SS-X154Y117G	SS-X154Y117H	SS-X154Y117I
Sample Identification	S-120204-DD-774	S-120204-DD-775	SS-012802-MG-002	SS-012802-MG-003	S-AOI18-082806-AH-11941	S-AOI18-082806-AH-11940	S-AOI18-082906-GD-11951	S-AOI18-082906-GD-11950
Sample Date	12/2/2004	12/2/2004	1/28/2002	1/28/2002	8/28/2006	8/28/2006	8/29/2006	8/29/2006
Sample Depth	(0-2)	(2-4)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)
Sample Type								
	<i>Units</i>							
2,4-Dinitrotoluene	--	--	0.44 U	0.36 U	--	--	--	--
2,6-Dinitrotoluene	--	--	0.44 U	0.36 U	--	--	--	--
2-Chloronaphthalene	--	--	0.44 U	0.36 U	--	--	--	--
2-Chlorophenol	--	--	0.44 U	0.36 U	--	--	--	--
2-Methylnaphthalene	--	--	0.44 U	0.36 U	--	--	--	--
2-Methylphenol	--	--	0.44 U	0.36 U	--	--	--	--
2-Nitroaniline	--	--	2.1 U	1.7 U	--	--	--	--
2-Nitrophenol	--	--	0.44 U	0.36 U	--	--	--	--
3,3'-Dichlorobenzidine	--	--	2.1 U	1.7 U	--	--	--	--
3-Nitroaniline	--	--	2.1 U	1.7 U	--	--	--	--
4,6-Dinitro-2-methylphenol	--	--	2.1 U	1.7 U	--	--	--	--
4-Bromophenyl phenyl ether	--	--	0.44 U	0.36 U	--	--	--	--
4-Chloro-3-methylphenol	--	--	0.44 U	0.36 U	--	--	--	--
4-Chloroaniline	--	--	0.44 U	0.36 U	--	--	--	--
4-Chlorophenyl phenyl ether	--	--	0.44 U	0.36 U	--	--	--	--
4-Methylphenol	--	--	0.44 U	0.36 U	--	--	--	--
4-Nitroaniline	--	--	2.1 U	1.7 U	--	--	--	--
4-Nitrophenol	--	--	2.1 U	1.7 U	--	--	--	--
Acenaphthene	--	--	0.44 U	0.36 U	--	--	--	--
Acenaphthylene	--	--	0.44 U	0.36 U	--	--	--	--
Acetophenone	--	--	0.44 U	0.36 U	--	--	--	--
Anthracene	--	--	0.44 U	0.069 J	--	--	--	--
Atrazine	--	--	0.44 U	0.36 U	--	--	--	--
Benzaldehyde	--	--	0.44 U	0.36 U	--	--	--	--
Benzo(a)anthracene	--	--	0.44 U	0.21 J	--	--	--	--
Benzo(a)pyrene	--	--	0.44 U	0.2 J	--	--	--	--
Benzo(b)fluoranthene	--	--	0.44 U	0.32 J	--	--	--	--
Benzo(g,h,i)perylene	--	--	0.44 U	0.13 J	--	--	--	--
Benzo(k)fluoranthene	--	--	0.44 U	0.21 J	--	--	--	--
Biphenyl	--	--	0.44 U	0.36 U	--	--	--	--
bis(2-Chloroethoxy)methane	--	--	0.44 U	0.36 U	--	--	--	--
bis(2-Chloroethyl)ether	--	--	0.44 U	0.36 U	--	--	--	--
bis(2-Ethylhexyl)phthalate	--	--	0.44 U	0.12 J	--	--	--	--
Butyl benzylphthalate	--	--	0.44 U	0.12 J	--	--	--	--
Caprolactam	--	--	0.44 U	0.36 U	--	--	--	--
Carbazole	--	--	0.44 U	0.057 J	--	--	--	--
Chrysene	--	--	0.44 U	0.2 J	--	--	--	--
Dibenz(a,h)anthracene	--	--	0.44 U	0.36 U	--	--	--	--
Dibenzofuran	--	--	0.44 U	0.36 U	--	--	--	--
Diethyl phthalate	--	--	0.44 U	0.36 U	--	--	--	--
Dimethyl phthalate	--	--	0.44 U	0.36 U	--	--	--	--
Di-n-butylphthalate	--	--	0.44 U	0.36 U	--	--	--	--
Di-n-octyl phthalate	--	--	0.44 U	0.36 U	--	--	--	--
Fluoranthene	--	--	0.44 U	0.36	--	--	--	--
Fluorene	--	--	0.44 UJ	0.36 UJ	--	--	--	--
Hexachlorobenzene	--	--	0.44 U	0.36 U	--	--	--	--
Hexachlorobutadiene	--	--	0.44 U	0.36 U	--	--	--	--
Hexachlorocyclopentadiene	--	--	2.1 UJ	1.7 UJ	--	--	--	--
Hexachloroethane	--	--	0.44 U	0.36 U	--	--	--	--
Indeno(1,2,3-cd)pyrene	--	--	0.44 U	0.12 J	--	--	--	--
Isophorone	--	--	0.44 U	0.36 U	--	--	--	--
Naphthalene	--	--	0.44 U	0.36 U	--	--	--	--
Nitrobenzene	--	--	0.44 U	0.36 U	--	--	--	--
N-Nitrosodi-n-propylamine	--	--	0.44 U	0.36 U	--	--	--	--
N-Nitrosodiphenylamine	--	--	0.44 U	0.36 U	--	--	--	--
Pentachlorophenol	--	--	0.44 U	0.36 U	--	--	--	--
Phenanthrene	--	--	0.44 U	0.17 J	--	--	--	--
Phenol	--	--	0.44 U	0.36 U	--	--	--	--
Pyrene	--	--	0.44 U	0.28 J	--	--	--	--

TABLE 2.2

AOI 18 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Sample Location		B-X154Y117E	B-X154Y117E	SS-X149Y126	SS-X154Y117	SS-X154Y117F	SS-X154Y117G	SS-X154Y117H	SS-X154Y117I	
Sample Identification		S-120204-DD-774	S-120204-DD-775	SS-012802-MG-002	SS-012802-MG-003	S-AOI18-082806-AH-11941	S-AOI18-082806-AH-11940	S-AOI18-082906-GD-11951	S-AOI18-082906-GD-11950	
Sample Date		12/2/2004	12/2/2004	1/28/2002	1/28/2002	8/28/2006	8/28/2006	8/29/2006	8/29/2006	
Sample Depth		(0-2)	(2-4)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	(0-2)	
Sample Type										
	Units									
Metals										
Aluminum	mg/Kg	--	--	16300	9700	--	--	--	--	
Antimony	mg/Kg	--	--	1.2 J	1.1 J	--	--	--	--	
Arsenic	mg/kg	--	--	11.3	8.3	--	--	--	--	
Barium	mg/kg	--	--	38.0	40.4	--	--	--	--	
Beryllium	mg/kg	--	--	0.37 J	0.51 J	--	--	--	--	
Cadmium	mg/Kg	--	--	0.67 U	1.2	--	--	--	--	
Chromium Total	mg/kg	--	--	61.9	117	--	--	--	--	
Cobalt	mg/kg	--	--	2.4 J	70.3	--	--	--	--	
Copper	mg/Kg	--	--	14.2	224	--	--	--	--	
Iron	mg/kg	--	--	53200	32900	--	--	--	--	
Lead	mg/Kg	--	--	24.4	67.1	--	--	--	--	
Manganese	mg/kg	--	--	43.3	266	--	--	--	--	
Mercury	mg/kg	--	--	0.13 U	0.15	--	--	--	--	
Nickel	mg/kg	--	--	11.7	312	--	--	--	--	
Selenium	mg/kg	--	--	1.7	0.90	--	--	--	--	
Silver	mg/kg	--	--	1.3 U	1.1 U	--	--	--	--	
Thallium	mg/kg	--	--	1.3 U	1.1 U	--	--	--	--	
Vanadium	mg/kg	--	--	106	16.2	--	--	--	--	
Zinc	mg/kg	--	--	43.2	315	--	--	--	--	
PCBs										
Aroclor-1016 (PCB-1016)	mg/kg	0.76 U	0.04 U	0.044 U	1.8 U	0.39 U	0.79 U	0.73 U	0.8 U	
Aroclor-1221 (PCB-1221)	mg/kg	0.76 U	0.04 U	0.044 U	1.8 U	0.39 U	0.79 U	0.73 U	0.8 U	
Aroclor-1232 (PCB-1232)	mg/kg	0.76 U	0.04 U	0.044 U	1.8 U	0.39 U	0.79 U	0.73 U	0.8 U	
Aroclor-1242 (PCB-1242)	mg/kg	0.76 U	0.04 U	0.044 U	1.8 U	0.39 U	0.79 U	0.73 U	0.8 U	
Aroclor-1248 (PCB-1248)	mg/kg	5.2	0.023 J	0.044 U	17	4.7	10	8.4	12	
Aroclor-1254 (PCB-1254)	mg/kg	0.76 U	0.04 U	0.044 U	1.8 U	0.39 U	0.79 U	0.73 U	0.8 U	
Aroclor-1260 (PCB-1260)	mg/kg	0.75 J	0.04 U	0.044 U	1.8 U	1.2	1.7	0.83	1.4	
Total PCBs	mg/kg	5.95 J	0.023 J	0	17	5.9	11.7	9.23	13.4	
Wet										
Cyanide (amenable)	mg/kg	--	--	0.67 U	0.54 U					
Cyanide (total)	mg/Kg	--	--	0.67 U	0.54 U					
Total Solids	%	86.8	81.6	74.9	91.9	83.7	83.1	90.8	82.5	

Notes:

- U - Not present at or above the associated value.
- J - Estimated concentration.
- UJ - Estimated reporting limit.
- mg/kg - milogram per kilogram
- % - percent

TABLE 2.3

AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	B-X129Y247	B-X129Y247	B-X129Y247A	B-X129Y247A	B-X129Y247A	B-X129Y247A	B-X129Y247B	B-X129Y247B	B-X129Y247B
Sample Identification:	S-041404-JC-063	S-041404-JC-064	S-102504-JC-285	S-102504-JC-286	S-102504-JC-287	S-102504-JC-287	S-102504-JC-290	S-102504-JC-291	S-102504-JC-292
Sample Date:	4/14/2004	4/14/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004
Sample Depth:	(0-2) ft	(6-8) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	(0-2) ft	(2-4) ft	(2-4) ft
Sample Type:									Duplicate
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	19 U	0.042 U	0.04 U	0.036 UJ	0.04 U	0.2 U	0.038 U	0.075 U
Aroclor-1221 (PCB-1221)	mg/kg	19 U	0.042 U	0.04 U	0.036 UJ	0.04 U	0.2 U	0.038 U	0.075 U
Aroclor-1232 (PCB-1232)	mg/kg	19 U	0.042 U	0.04 U	0.036 UJ	0.04 U	0.2 U	0.038 U	0.075 U
Aroclor-1242 (PCB-1242)	mg/kg	19 U	0.042 U	0.04 U	0.036 UJ	0.04 U	0.2 U	0.038 U	0.075 U
Aroclor-1248 (PCB-1248)	mg/kg	19 U	0.042 U	0.04 U	0.036 UJ	0.04 U	0.2 U	0.038 U	0.075 U
Aroclor-1254 (PCB-1254)	mg/kg	67	0.042 U	0.22	0.036 UJ	0.04 U	0.85	0.26	0.075 U
Aroclor-1260 (PCB-1260)	mg/kg	19 U	0.042 U	0.04 U	0.0094 J	0.04 U	0.2 U	0.038 U	0.28
Total PCBs	mg/kg	67	ND	0.22	0.0094 J	ND	0.85	0.26	0.28
Metals									
Aluminum	mg/kg	9190	16400	--	--	--	--	--	--
Antimony	mg/kg	6.9 U	7.7 U	--	--	--	--	--	--
Arsenic	mg/kg	2.1	9.5	--	--	--	--	--	--
Barium	mg/kg	19.3 J	67.7	--	--	--	--	--	--
Beryllium	mg/kg	0.58 U	0.64 U	--	--	--	--	--	--
Cadmium	mg/kg	0.28 J	0.64 U	--	--	--	--	--	--
Chromium	mg/kg	39.9	19.6	--	--	--	--	--	--
Cobalt	mg/kg	13.2	6.6	--	--	--	--	--	--
Copper	mg/kg	218	18.3	--	--	--	--	--	--
Iron	mg/kg	5160	26400	--	--	--	--	--	--
Lead	mg/kg	42.7	18.3	--	--	--	--	--	--
Manganese	mg/kg	128	196	--	--	--	--	--	--
Mercury	mg/kg	6.6	0.054 J	--	--	--	--	--	--
Nickel	mg/kg	137	12.6	--	--	--	--	--	--
Selenium	mg/kg	0.37 J	0.58 J	--	--	--	--	--	--
Silver	mg/kg	0.33 J	1.3 U	--	--	--	--	--	--
Thallium	mg/kg	1.2 U	1.3 U	--	--	--	--	--	--
Vanadium	mg/kg	7.4	36.3	--	--	--	--	--	--
Zinc	mg/kg	68.8	45.7	--	--	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)									
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
2,4-Dimethylphenol	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
2,4-Dinitrophenol	mg/kg	18 U	2 U	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
2-Chlorophenol	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
2-Methylnaphthalene	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
2-Methylphenol	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
2-Nitroaniline	mg/kg	18 U	2 U	--	--	--	--	--	--
2-Nitrophenol	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	18 U	2 U	--	--	--	--	--	--
3-Nitroaniline	mg/kg	18 U	2 U	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	18 U	2 U	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
4-Chloroaniline	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
4-Methylphenol	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
4-Nitroaniline	mg/kg	18 U	2 U	--	--	--	--	--	--
4-Nitrophenol	mg/kg	18 U	2 U	--	--	--	--	--	--
Acenaphthene	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
Acenaphthylene	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
Acetophenone	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
Anthracene	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
Atrazine	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
Benzaldehyde	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	3.8 U	0.42 U	--	--	--	--	--	--

TABLE 2.3

AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	B-X129Y247	B-X129Y247	B-X129Y247A	B-X129Y247A	B-X129Y247A	B-X129Y247A	B-X129Y247B	B-X129Y247B
Sample Identification:	S-041404-JC-063	S-041404-JC-064	S-102504-JC-285	S-102504-JC-286	S-102504-JC-287	S-102504-JC-290	S-102504-JC-291	S-102504-JC-292
Sample Date:	4/14/2004	4/14/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004
Sample Depth:	(0-2) ft	(6-8) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(2-4) ft
Sample Type:								Duplicate
	Units							
Biphenyl (1,1-Biphenyl)	mg/kg	3.8 U	0.42 U	--	--	--	--	--
bis(2-Chloroethoxy)methane	mg/kg	3.8 U	0.42 U	--	--	--	--	--
bis(2-Chloroethyl)ether	mg/kg	3.8 U	0.42 U	--	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Butyl benzylphthalate (BBP)	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Caprolactam	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Carbazole	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Chrysene	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Dibenzofuran	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Diethyl phthalate	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Dimethyl phthalate	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Di-n-butylphthalate (DBP)	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Di-n-octyl phthalate (DnOP)	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Fluoranthene	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Fluorene	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Hexachlorobenzene	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Hexachlorobutadiene	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Hexachlorocyclopentadiene	mg/kg	18 U	2 U	--	--	--	--	--
Hexachloroethane	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Isophorone	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Naphthalene	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Nitrobenzene	mg/kg	3.8 U	0.42 U	--	--	--	--	--
N-Nitrosodi-n-propylamine	mg/kg	3.8 U	0.42 U	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Pentachlorophenol	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Phenanthrene	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Phenol	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Pyrene	mg/kg	3.8 U	0.42 U	--	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
1,1-Dichloroethane	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
1,1-Dichloroethene	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.013 U	0.01 U	--	--	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
1,2-Dichloroethane	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
1,2-Dichloropropane	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.026 U	0.021 U	--	--	--	--	--
2-Hexanone	mg/kg	0.026 U	0.021 U	--	--	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	0.026 U	0.021 U	--	--	--	--	--
Acetone	mg/kg	0.026 U	0.0079 U	--	--	--	--	--
Benzene	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
Bromodichloromethane	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
Bromoform	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
Bromomethane (Methyl bromide)	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
Carbon disulfide	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
Carbon tetrachloride	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
Chlorobenzene	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
Chloroethane	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
Chloroform (Trichloromethane)	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
Chloromethane (Methyl chloride)	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	0.0033 U	0.0026 U	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
Cyclohexane	mg/kg	0.013 U	0.01 U	--	--	--	--	--
Dibromochloromethane	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
Ethylbenzene	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
Isopropyl benzene	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--
Methyl acetate	mg/kg	0.013 U	0.01 U	--	--	--	--	--
Methyl cyclohexane	mg/kg	0.013 U	0.01 U	--	--	--	--	--
Methyl tert butyl ether (MTBE)	mg/kg	0.026 U	0.021 U	--	--	--	--	--

TABLE 2.3
AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

AOI:		A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	Units	B-X129Y247	B-X129Y247	B-X129Y247A	B-X129Y247A	B-X129Y247A	B-X129Y247B	B-X129Y247B	B-X129Y247B
Sample Identification:		S-041404-JC-063	S-041404-JC-064	S-102504-JC-285	S-102504-JC-286	S-102504-JC-287	S-102504-JC-290	S-102504-JC-291	S-102504-JC-292
Sample Date:		4/14/2004	4/14/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004
Sample Depth:		(0-2) ft	(6-8) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(2-4) ft
Sample Type:									Duplicate
Methylene chloride	mg/kg	0.0022 J	0.0013 J	--	--	--	--	--	--
Styrene	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--	--
Tetrachloroethene	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--	--
Toluene	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	0.0033 U	0.0026 U	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--	--
Trichloroethene	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--	--
Trifluorotrichloroethane (Freon 113)	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--	--
Vinyl chloride	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--	--
Xylenes (total)	mg/kg	0.0066 U	0.0052 U	--	--	--	--	--	--
General Chemistry									
Cyanide (amenable)	mg/kg	0.58 U	0.64 U	--	--	--	--	--	--
Cyanide (total)	mg/kg	0.58 U	0.64 U	--	--	--	--	--	--
Total solids	%	86.8	78.3	81.8	92.7	83.0	84.3	86.9	88.2

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.3

AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	B-X129Y247B	B-X129Y247C	B-X129Y247C	B-X129Y247C	B-X129Y247C	B-X129Y247D	B-X129Y247D	B-X129Y247D	B-X129Y247E
Sample Identification:	S-102504-JC-293	S-102504-JC-296	S-102504-JC-297	S-102504-JC-298	S-102504-JC-302	S-102504-JC-303	S-102504-JC-304	S-102504-JC-307	S-102504-JC-307
Sample Date:	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004
Sample Depth:	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	(0-2) ft
Sample Type:									
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	0.044 U	0.19 U	0.04 U	0.042 U	0.04 U	0.077 U	0.042 U	0.039 U
Aroclor-1221 (PCB-1221)	mg/kg	0.044 U	0.19 U	0.04 U	0.042 U	0.04 U	0.077 U	0.042 U	0.039 U
Aroclor-1232 (PCB-1232)	mg/kg	0.044 U	0.19 U	0.04 U	0.042 U	0.04 U	0.077 U	0.042 U	0.039 U
Aroclor-1242 (PCB-1242)	mg/kg	0.044 U	0.19 U	0.04 U	0.042 U	0.04 U	0.077 U	0.042 U	0.039 U
Aroclor-1248 (PCB-1248)	mg/kg	0.044 U	0.19 U	0.04 U	0.042 U	0.04 U	0.077 U	0.042 U	0.039 U
Aroclor-1254 (PCB-1254)	mg/kg	0.044 U	1.4	0.04 U	0.042 U	0.074	0.66	0.042 U	0.084
Aroclor-1260 (PCB-1260)	mg/kg	0.044 U	0.19 U	0.04 U	0.042 U	0.04 U	0.077 U	0.042 U	0.039 U
Total PCBs	mg/kg	ND	1.4	ND	ND	0.074	0.66	ND	0.084
Metals									
Aluminum	mg/kg	--	--	--	--	--	--	--	--
Antimony	mg/kg	--	--	--	--	--	--	--	--
Arsenic	mg/kg	--	--	--	--	--	--	--	--
Barium	mg/kg	--	--	--	--	--	--	--	--
Beryllium	mg/kg	--	--	--	--	--	--	--	--
Cadmium	mg/kg	--	--	--	--	--	--	--	--
Chromium	mg/kg	--	--	--	--	--	--	--	--
Cobalt	mg/kg	--	--	--	--	--	--	--	--
Copper	mg/kg	--	--	--	--	--	--	--	--
Iron	mg/kg	--	--	--	--	--	--	--	--
Lead	mg/kg	--	--	--	--	--	--	--	--
Manganese	mg/kg	--	--	--	--	--	--	--	--
Mercury	mg/kg	--	--	--	--	--	--	--	--
Nickel	mg/kg	--	--	--	--	--	--	--	--
Selenium	mg/kg	--	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--
Thallium	mg/kg	--	--	--	--	--	--	--	--
Vanadium	mg/kg	--	--	--	--	--	--	--	--
Zinc	mg/kg	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)									
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/kg	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg	--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/kg	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	--	--	--	--	--	--	--	--
Acetophenone	mg/kg	--	--	--	--	--	--	--	--
Anthracene	mg/kg	--	--	--	--	--	--	--	--
Atrazine	mg/kg	--	--	--	--	--	--	--	--
Benzaldehyde	mg/kg	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--	--	--	--	--	--

TABLE 2.3

AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	B-X129Y247B	B-X129Y247C	B-X129Y247C	B-X129Y247C	B-X129Y247D	B-X129Y247D	B-X129Y247D	B-X129Y247E
Sample Identification:	S-102504-JC-293	S-102504-JC-296	S-102504-JC-297	S-102504-JC-298	S-102504-JC-302	S-102504-JC-303	S-102504-JC-304	S-102504-JC-307
Sample Date:	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004
Sample Depth:	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft
Sample Type:								
	Units							
Biphenyl (1,1-Biphenyl)	mg/kg	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	mg/kg	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	mg/kg	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	--	--	--	--	--	--	--
Butyl benzylphthalate (BBP)	mg/kg	--	--	--	--	--	--	--
Caprolactam	mg/kg	--	--	--	--	--	--	--
Carbazole	mg/kg	--	--	--	--	--	--	--
Chrysene	mg/kg	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	--	--	--	--	--	--	--
Diethyl phthalate	mg/kg	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	--	--	--	--	--	--	--
Di-n-butylphthalate (DBP)	mg/kg	--	--	--	--	--	--	--
Di-n-octyl phthalate (DnOP)	mg/kg	--	--	--	--	--	--	--
Fluoranthene	mg/kg	--	--	--	--	--	--	--
Fluorene	mg/kg	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/kg	--	--	--	--	--	--	--
Hexachloroethane	mg/kg	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--
Isophorone	mg/kg	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	mg/kg	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	--	--	--	--	--	--	--
Phenanthrene	mg/kg	--	--	--	--	--	--	--
Phenol	mg/kg	--	--	--	--	--	--	--
Pyrene	mg/kg	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	--	--	--	--	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	mg/kg	--	--	--	--	--	--	--
Carbon disulfide	mg/kg	--	--	--	--	--	--	--
Carbon tetrachloride	mg/kg	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--
Chloroform (Trichloromethane)	mg/kg	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	mg/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--
Cyclohexane	mg/kg	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	mg/kg	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--
Isopropyl benzene	mg/kg	--	--	--	--	--	--	--
Methyl acetate	mg/kg	--	--	--	--	--	--	--
Methyl cyclohexane	mg/kg	--	--	--	--	--	--	--
Methyl tert butyl ether (MTBE)	mg/kg	--	--	--	--	--	--	--

TABLE 2.3
 AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	
Sample Location:	B-X129Y247B	B-X129Y247C	B-X129Y247C	B-X129Y247C	B-X129Y247D	B-X129Y247D	B-X129Y247D	B-X129Y247E	
Sample Identification:	S-102504-JC-293	S-102504-JC-296	S-102504-JC-297	S-102504-JC-298	S-102504-JC-302	S-102504-JC-303	S-102504-JC-304	S-102504-JC-307	
Sample Date:	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	
Sample Depth:	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	
Sample Type:									
	Units								
Methylene chloride	mg/kg	--	--	--	--	--	--	--	
Styrene	mg/kg	--	--	--	--	--	--	--	
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	
Toluene	mg/kg	--	--	--	--	--	--	--	
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	
Trichloroethene	mg/kg	--	--	--	--	--	--	--	
Trichlorofluoromethane (CFC-11)	mg/kg	--	--	--	--	--	--	--	
Trifluorotrichloroethane (Freon 113)	mg/kg	--	--	--	--	--	--	--	
Vinyl chloride	mg/kg	--	--	--	--	--	--	--	
Xylenes (total)	mg/kg	--	--	--	--	--	--	--	
General Chemistry									
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	
Total solids	%	74.6	86.8	83.1	78.3	82.2	85.9	77.8	

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.3

AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	B-X129Y247E	B-X129Y247E	B-X129Y247F	B-X129Y247F	B-X129Y247F	B-X129Y247F	B-X129Y247G	B-X129Y247G	B-X129Y247G
Sample Identification:	S-102504-JC-308	S-102504-JC-309	S-102504-JC-313	S-102504-JC-314	S-102504-JC-315	S-102504-JC-317	S-102504-JC-318	S-102504-JC-319	S-102504-JC-319
Sample Date:	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004
Sample Depth:	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(2-4) ft	(2-4) ft
Sample Type:									Duplicate
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	0.036 U	0.043 U	0.079 U	0.071 U	0.07 U	0.076 U	0.073 U	0.037 U
Aroclor-1221 (PCB-1221)	mg/kg	0.036 U	0.043 U	0.079 U	0.071 U	0.07 U	0.076 U	0.073 U	0.037 U
Aroclor-1232 (PCB-1232)	mg/kg	0.036 U	0.043 U	0.079 U	0.071 U	0.07 U	0.076 U	0.073 U	0.037 U
Aroclor-1242 (PCB-1242)	mg/kg	0.036 U	0.043 U	0.079 U	0.071 U	0.07 U	0.076 U	0.073 U	0.037 U
Aroclor-1248 (PCB-1248)	mg/kg	0.036 U	0.043 U	0.7	0.071 U	0.07 U	0.076 U	0.073 U	0.037 U
Aroclor-1254 (PCB-1254)	mg/kg	0.036 U	0.043 U	0.079 U	0.071 U	0.07 U	0.6	0.073 U	0.037 U
Aroclor-1260 (PCB-1260)	mg/kg	0.16	0.043 U	0.18	0.23	0.34	0.076 U	0.55	0.11
Total PCBs	mg/kg	0.16	ND	0.88	0.23	0.34	0.6	0.55	0.11
Metals									
Aluminum	mg/kg	--	--	--	--	--	--	--	--
Antimony	mg/kg	--	--	--	--	--	--	--	--
Arsenic	mg/kg	--	--	--	--	--	--	--	--
Barium	mg/kg	--	--	--	--	--	--	--	--
Beryllium	mg/kg	--	--	--	--	--	--	--	--
Cadmium	mg/kg	--	--	--	--	--	--	--	--
Chromium	mg/kg	--	--	--	--	--	--	--	--
Cobalt	mg/kg	--	--	--	--	--	--	--	--
Copper	mg/kg	--	--	--	--	--	--	--	--
Iron	mg/kg	--	--	--	--	--	--	--	--
Lead	mg/kg	--	--	--	--	--	--	--	--
Manganese	mg/kg	--	--	--	--	--	--	--	--
Mercury	mg/kg	--	--	--	--	--	--	--	--
Nickel	mg/kg	--	--	--	--	--	--	--	--
Selenium	mg/kg	--	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--
Thallium	mg/kg	--	--	--	--	--	--	--	--
Vanadium	mg/kg	--	--	--	--	--	--	--	--
Zinc	mg/kg	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)									
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/kg	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg	--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/kg	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	--	--	--	--	--	--	--	--
Acetophenone	mg/kg	--	--	--	--	--	--	--	--
Anthracene	mg/kg	--	--	--	--	--	--	--	--
Atrazine	mg/kg	--	--	--	--	--	--	--	--
Benzaldehyde	mg/kg	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--	--	--	--	--	--

TABLE 2.3
 AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	B-X129Y247E	B-X129Y247E	B-X129Y247F	B-X129Y247F	B-X129Y247F	B-X129Y247G	B-X129Y247G	B-X129Y247G
Sample Identification:	S-102504-JC-308	S-102504-JC-309	S-102504-JC-313	S-102504-JC-314	S-102504-JC-315	S-102504-JC-317	S-102504-JC-318	S-102504-JC-319
Sample Date:	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004
Sample Depth:	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(2-4) ft
Sample Type:								Duplicate
	Units							
Biphenyl (1,1-Biphenyl)	mg/kg	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	mg/kg	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	mg/kg	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	--	--	--	--	--	--	--
Butyl benzylphthalate (BBP)	mg/kg	--	--	--	--	--	--	--
Caprolactam	mg/kg	--	--	--	--	--	--	--
Carbazole	mg/kg	--	--	--	--	--	--	--
Chrysene	mg/kg	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	--	--	--	--	--	--	--
Diethyl phthalate	mg/kg	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	--	--	--	--	--	--	--
Di-n-butylphthalate (DBP)	mg/kg	--	--	--	--	--	--	--
Di-n-octyl phthalate (DnOP)	mg/kg	--	--	--	--	--	--	--
Fluoranthene	mg/kg	--	--	--	--	--	--	--
Fluorene	mg/kg	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/kg	--	--	--	--	--	--	--
Hexachloroethane	mg/kg	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--
Isophorone	mg/kg	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	mg/kg	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	--	--	--	--	--	--	--
Phenanthrene	mg/kg	--	--	--	--	--	--	--
Phenol	mg/kg	--	--	--	--	--	--	--
Pyrene	mg/kg	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	--	--	--	--	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	mg/kg	--	--	--	--	--	--	--
Carbon disulfide	mg/kg	--	--	--	--	--	--	--
Carbon tetrachloride	mg/kg	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--
Chloroform (Trichloromethane)	mg/kg	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	mg/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--
Cyclohexane	mg/kg	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	mg/kg	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--
Isopropyl benzene	mg/kg	--	--	--	--	--	--	--
Methyl acetate	mg/kg	--	--	--	--	--	--	--
Methyl cyclohexane	mg/kg	--	--	--	--	--	--	--
Methyl tert butyl ether (MTBE)	mg/kg	--	--	--	--	--	--	--

TABLE 2.3
 AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	B-X129Y247E	B-X129Y247E	B-X129Y247F	B-X129Y247F	B-X129Y247F	B-X129Y247G	B-X129Y247G	B-X129Y247G
Sample Identification:	S-102504-JC-308	S-102504-JC-309	S-102504-JC-313	S-102504-JC-314	S-102504-JC-315	S-102504-JC-317	S-102504-JC-318	S-102504-JC-319
Sample Date:	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004	10/25/2004
Sample Depth:	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(2-4) ft
Sample Type:								Duplicate
	Units							
Methylene chloride	mg/kg	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	mg/kg	--	--	--	--	--	--	--
Trifluorotrichloroethane (Freon 113)	mg/kg	--	--	--	--	--	--	--
Vinyl chloride	mg/kg	--	--	--	--	--	--	--
Xylenes (total)	mg/kg	--	--	--	--	--	--	--
General Chemistry								
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--
Total solids	%	91.8	76.6	83.8	92.3	93.9	87.1	90.8

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.3

AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	B-X129Y247G	B-X129Y247G	B-X129Y247G	B-X129Y247H	B-X129Y247H	B-X129Y247H	B-X129Y247H	B-X129Y247H	B-X129Y247H
Sample Identification:	S-102504-JC-320	S-102504-JC-321	S-102504-JC-322	S-102604-JC-323	S-102604-JC-324	S-102604-JC-325	S-102604-JC-326	S-102604-JC-326	S-102604-JC-329
Sample Date:	10/25/2004	10/25/2004	10/25/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004
Sample Depth:	(4-6) ft	(6-8) ft	(8-10) ft	(0-2) ft	(2-4) ft	(4-6) ft	(4-6) ft	Duplicate	(0-2) ft
Sample Type:									
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	0.039 U	0.042 U	0.042 U	0.076 U	0.071 U	0.072 U	0.041 U	0.038 U
Aroclor-1221 (PCB-1221)	mg/kg	0.039 U	0.042 U	0.042 U	0.076 U	0.071 U	0.072 U	0.041 U	0.038 U
Aroclor-1232 (PCB-1232)	mg/kg	0.039 U	0.042 U	0.042 U	0.076 U	0.071 U	0.072 U	0.041 U	0.038 U
Aroclor-1242 (PCB-1242)	mg/kg	0.039 U	0.042 U	0.023 J	0.076 U	0.071 U	0.072 U	0.041 U	0.038 U
Aroclor-1248 (PCB-1248)	mg/kg	0.039 U	0.042 U	0.042 U	0.43	0.071 U	0.072 U	0.041 U	0.038 U
Aroclor-1254 (PCB-1254)	mg/kg	0.039 U	0.042 U	0.042 U	0.076 U	0.34	0.39	0.041 U	0.2
Aroclor-1260 (PCB-1260)	mg/kg	0.039 U	0.042 U	0.042 U	0.22	0.071 U	0.072 U	0.057	0.038 U
Total PCBs	mg/kg	ND	ND	0.023 J	0.65	0.34	0.39	0.057	0.2
Metals									
Aluminum	mg/kg	--	--	--	--	--	--	--	--
Antimony	mg/kg	--	--	--	--	--	--	--	--
Arsenic	mg/kg	--	--	--	--	--	--	--	--
Barium	mg/kg	--	--	--	--	--	--	--	--
Beryllium	mg/kg	--	--	--	--	--	--	--	--
Cadmium	mg/kg	--	--	--	--	--	--	--	--
Chromium	mg/kg	--	--	--	--	--	--	--	--
Cobalt	mg/kg	--	--	--	--	--	--	--	--
Copper	mg/kg	--	--	--	--	--	--	--	--
Iron	mg/kg	--	--	--	--	--	--	--	--
Lead	mg/kg	--	--	--	--	--	--	--	--
Manganese	mg/kg	--	--	--	--	--	--	--	--
Mercury	mg/kg	--	--	--	--	--	--	--	--
Nickel	mg/kg	--	--	--	--	--	--	--	--
Selenium	mg/kg	--	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--
Thallium	mg/kg	--	--	--	--	--	--	--	--
Vanadium	mg/kg	--	--	--	--	--	--	--	--
Zinc	mg/kg	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)									
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/kg	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg	--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/kg	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	--	--	--	--	--	--	--	--
Acetophenone	mg/kg	--	--	--	--	--	--	--	--
Anthracene	mg/kg	--	--	--	--	--	--	--	--
Atrazine	mg/kg	--	--	--	--	--	--	--	--
Benzaldehyde	mg/kg	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--	--	--	--	--	--

TABLE 2.3

AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	B-X129Y247G	B-X129Y247G	B-X129Y247G	B-X129Y247H	B-X129Y247H	B-X129Y247H	B-X129Y247H	B-X129Y247H
Sample Identification:	S-102504-JC-320	S-102504-JC-321	S-102504-JC-322	S-102604-JC-323	S-102604-JC-324	S-102604-JC-325	S-102604-JC-326	S-102604-JC-329
Sample Date:	10/25/2004	10/25/2004	10/25/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004
Sample Depth:	(4-6) ft	(6-8) ft	(8-10) ft	(0-2) ft	(2-4) ft	(4-6) ft	(4-6) ft	(0-2) ft
Sample Type:							Duplicate	
	Units							
Biphenyl (1,1-Biphenyl)	mg/kg	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	mg/kg	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	mg/kg	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	--	--	--	--	--	--	--
Butyl benzylphthalate (BBP)	mg/kg	--	--	--	--	--	--	--
Caprolactam	mg/kg	--	--	--	--	--	--	--
Carbazole	mg/kg	--	--	--	--	--	--	--
Chrysene	mg/kg	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	--	--	--	--	--	--	--
Diethyl phthalate	mg/kg	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	--	--	--	--	--	--	--
Di-n-butylphthalate (DBP)	mg/kg	--	--	--	--	--	--	--
Di-n-octyl phthalate (DnOP)	mg/kg	--	--	--	--	--	--	--
Fluoranthene	mg/kg	--	--	--	--	--	--	--
Fluorene	mg/kg	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/kg	--	--	--	--	--	--	--
Hexachloroethane	mg/kg	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--
Isophorone	mg/kg	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	mg/kg	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	--	--	--	--	--	--	--
Phenanthrene	mg/kg	--	--	--	--	--	--	--
Phenol	mg/kg	--	--	--	--	--	--	--
Pyrene	mg/kg	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	--	--	--	--	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	mg/kg	--	--	--	--	--	--	--
Carbon disulfide	mg/kg	--	--	--	--	--	--	--
Carbon tetrachloride	mg/kg	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--
Chloroform (Trichloromethane)	mg/kg	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	mg/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--
Cyclohexane	mg/kg	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	mg/kg	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--
Isopropyl benzene	mg/kg	--	--	--	--	--	--	--
Methyl acetate	mg/kg	--	--	--	--	--	--	--
Methyl cyclohexane	mg/kg	--	--	--	--	--	--	--
Methyl tert butyl ether (MTBE)	mg/kg	--	--	--	--	--	--	--

TABLE 2.3
 AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	B-X129Y247G	B-X129Y247G	B-X129Y247G	B-X129Y247H	B-X129Y247H	B-X129Y247H	B-X129Y247H	B-X129Y247H	B-X129Y247H
Sample Identification:	S-102504-JC-320	S-102504-JC-321	S-102504-JC-322	S-102604-JC-323	S-102604-JC-324	S-102604-JC-325	S-102604-JC-326	S-102604-JC-329	S-102604-JC-329
Sample Date:	10/25/2004	10/25/2004	10/25/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004
Sample Depth:	(4-6) ft	(6-8) ft	(8-10) ft	(0-2) ft	(2-4) ft	(4-6) ft	(4-6) ft	(4-6) ft	(0-2) ft
Sample Type:							Duplicate		
	Units								
Methylene chloride	mg/kg	--	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	mg/kg	--	--	--	--	--	--	--	--
Trifluorotrichloroethane (Freon 113)	mg/kg	--	--	--	--	--	--	--	--
Vinyl chloride	mg/kg	--	--	--	--	--	--	--	--
Xylenes (total)	mg/kg	--	--	--	--	--	--	--	--
General Chemistry									
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--
Total solids	%	85.5	77.9	78.0	87.0	92.6	92.0	81.0	86.3

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.3
AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	B-X129Y247I	B-X129Y247I	B-X129Y247J	B-X129Y247J	B-X129Y247I	B-X129Y247I	B-X129Y247K	B-X129Y247K	B-X129Y247K
Sample Identification:	S-102604-JC-330	S-102604-JC-331	S-102604-JC-334	S-102604-JC-335	S-102604-JC-336	S-102604-JC-339	S-102604-JC-340	S-102604-JC-341	S-102604-JC-341
Sample Date:	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004
Sample Depth:	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(2-4) ft	(2-4) ft
Sample Type:									Duplicate
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	0.037 U	0.041 U	0.078 U	0.073 U	0.042 U	0.19 U	0.19 U	0.19 U
Aroclor-1221 (PCB-1221)	mg/kg	0.037 U	0.041 U	0.078 U	0.073 U	0.042 U	0.19 U	0.19 U	0.19 U
Aroclor-1232 (PCB-1232)	mg/kg	0.037 U	0.041 U	0.078 U	0.073 U	0.042 U	0.19 U	0.19 U	0.19 U
Aroclor-1242 (PCB-1242)	mg/kg	0.037 U	0.041 U	0.078 U	0.073 U	0.042 U	0.19 U	0.19 U	0.19 U
Aroclor-1248 (PCB-1248)	mg/kg	0.037 U	0.041 U	0.078 U	0.073 U	0.042 U	0.19 U	0.19 U	0.19 U
Aroclor-1254 (PCB-1254)	mg/kg	0.037 U	0.041 U	0.86	0.073 U	0.042 U	1	1.1	0.89
Aroclor-1260 (PCB-1260)	mg/kg	0.18	0.041 U	0.078 U	0.14	0.042 U	0.19 U	0.19 U	0.19 U
Total PCBs	mg/kg	0.18	ND	0.86	0.14	ND	1	1.1	0.89
Metals									
Aluminum	mg/kg	--	--	--	--	--	--	--	--
Antimony	mg/kg	--	--	--	--	--	--	--	--
Arsenic	mg/kg	--	--	--	--	--	--	--	--
Barium	mg/kg	--	--	--	--	--	--	--	--
Beryllium	mg/kg	--	--	--	--	--	--	--	--
Cadmium	mg/kg	--	--	--	--	--	--	--	--
Chromium	mg/kg	--	--	--	--	--	--	--	--
Cobalt	mg/kg	--	--	--	--	--	--	--	--
Copper	mg/kg	--	--	--	--	--	--	--	--
Iron	mg/kg	--	--	--	--	--	--	--	--
Lead	mg/kg	--	--	--	--	--	--	--	--
Manganese	mg/kg	--	--	--	--	--	--	--	--
Mercury	mg/kg	--	--	--	--	--	--	--	--
Nickel	mg/kg	--	--	--	--	--	--	--	--
Selenium	mg/kg	--	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--
Thallium	mg/kg	--	--	--	--	--	--	--	--
Vanadium	mg/kg	--	--	--	--	--	--	--	--
Zinc	mg/kg	--	--	--	--	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)									
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/kg	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/kg	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/kg	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/kg	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/kg	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/kg	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/kg	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/kg	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/kg	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg	--	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/kg	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/kg	--	--	--	--	--	--	--	--
Acenaphthene	mg/kg	--	--	--	--	--	--	--	--
Acetophenone	mg/kg	--	--	--	--	--	--	--	--
Anthracene	mg/kg	--	--	--	--	--	--	--	--
Atrazine	mg/kg	--	--	--	--	--	--	--	--
Benzaldehyde	mg/kg	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--	--	--	--	--	--

TABLE 2.3

AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	B-X129Y247I	B-X129Y247I	B-X129Y247J	B-X129Y247J	B-X129Y247I	B-X129Y247I	B-X129Y247K	B-X129Y247K
Sample Identification:	S-102604-JC-330	S-102604-JC-331	S-102604-JC-334	S-102604-JC-335	S-102604-JC-336	S-102604-JC-339	S-102604-JC-340	S-102604-JC-341
Sample Date:	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004
Sample Depth:	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(2-4) ft
Sample Type:								Duplicate
	Units							
Biphenyl (1,1-Biphenyl)	mg/kg	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	mg/kg	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	mg/kg	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	--	--	--	--	--	--	--
Butyl benzylphthalate (BBP)	mg/kg	--	--	--	--	--	--	--
Caprolactam	mg/kg	--	--	--	--	--	--	--
Carbazole	mg/kg	--	--	--	--	--	--	--
Chrysene	mg/kg	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	--	--	--	--	--	--	--
Diethyl phthalate	mg/kg	--	--	--	--	--	--	--
Dimethyl phthalate	mg/kg	--	--	--	--	--	--	--
Di-n-butylphthalate (DBP)	mg/kg	--	--	--	--	--	--	--
Di-n-octyl phthalate (DnOP)	mg/kg	--	--	--	--	--	--	--
Fluoranthene	mg/kg	--	--	--	--	--	--	--
Fluorene	mg/kg	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/kg	--	--	--	--	--	--	--
Hexachloroethane	mg/kg	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--
Isophorone	mg/kg	--	--	--	--	--	--	--
Naphthalene	mg/kg	--	--	--	--	--	--	--
Nitrobenzene	mg/kg	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	mg/kg	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	--	--	--	--	--	--	--
Pentachlorophenol	mg/kg	--	--	--	--	--	--	--
Phenanthrene	mg/kg	--	--	--	--	--	--	--
Phenol	mg/kg	--	--	--	--	--	--	--
Pyrene	mg/kg	--	--	--	--	--	--	--
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	mg/kg	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	--	--	--	--	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	--	--	--	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	--	--	--	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	--	--	--	--	--	--	--
Acetone	mg/kg	--	--	--	--	--	--	--
Benzene	mg/kg	--	--	--	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--	--	--	--
Bromoform	mg/kg	--	--	--	--	--	--	--
Bromomethane (Methyl bromide)	mg/kg	--	--	--	--	--	--	--
Carbon disulfide	mg/kg	--	--	--	--	--	--	--
Carbon tetrachloride	mg/kg	--	--	--	--	--	--	--
Chlorobenzene	mg/kg	--	--	--	--	--	--	--
Chloroethane	mg/kg	--	--	--	--	--	--	--
Chloroform (Trichloromethane)	mg/kg	--	--	--	--	--	--	--
Chloromethane (Methyl chloride)	mg/kg	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--
Cyclohexane	mg/kg	--	--	--	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	mg/kg	--	--	--	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--	--	--	--
Isopropyl benzene	mg/kg	--	--	--	--	--	--	--
Methyl acetate	mg/kg	--	--	--	--	--	--	--
Methyl cyclohexane	mg/kg	--	--	--	--	--	--	--
Methyl tert butyl ether (MTBE)	mg/kg	--	--	--	--	--	--	--

TABLE 2.3
 AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	B-X129Y247I	B-X129Y247I	B-X129Y247J	B-X129Y247J	B-X129Y247J	B-X129Y247K	B-X129Y247K	B-X129Y247K
Sample Identification:	S-102604-JC-330	S-102604-JC-331	S-102604-JC-334	S-102604-JC-335	S-102604-JC-336	S-102604-JC-339	S-102604-JC-340	S-102604-JC-341
Sample Date:	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004
Sample Depth:	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(2-4) ft
Sample Type:								Duplicate
	Units							
Methylene chloride	mg/kg	--	--	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	mg/kg	--	--	--	--	--	--	--
Trifluorotrichloroethane (Freon 113)	mg/kg	--	--	--	--	--	--	--
Vinyl chloride	mg/kg	--	--	--	--	--	--	--
Xylenes (total)	mg/kg	--	--	--	--	--	--	--
General Chemistry								
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--
Total solids	%	90.0	80.7	84.8	90.9	78.3	87.3	84.7

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.3
 AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	B-X129Y247K	B-X129Y247L	B-X129Y247L	B-X129Y247L	B-X129Y247L
Sample Identification:	S-102604-JC-342	S-102604-JC-345	S-102604-JC-346	S-102604-JC-347	S-102604-JC-348
Sample Date:	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004
Sample Depth:	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(6-8) ft
Sample Type:					
	Units				
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.19 U	0.081 U	0.36 U	0.039 U
Aroclor-1221 (PCB-1221)	mg/kg	0.19 U	0.081 U	0.36 U	0.039 U
Aroclor-1232 (PCB-1232)	mg/kg	0.19 U	0.081 U	0.36 U	0.039 U
Aroclor-1242 (PCB-1242)	mg/kg	0.19 U	0.081 U	0.36 U	0.039 U
Aroclor-1248 (PCB-1248)	mg/kg	0.19 U	0.081 U	0.36 U	0.039 U
Aroclor-1254 (PCB-1254)	mg/kg	0.1 J	0.81	2.1	0.039 U
Aroclor-1260 (PCB-1260)	mg/kg	0.19 U	0.081 U	0.36 U	0.039 U
Total PCBs	mg/kg	0.1 J	0.81	2.1	ND
Metals					
Aluminum	mg/kg	--	--	--	--
Antimony	mg/kg	--	--	--	--
Arsenic	mg/kg	--	--	--	--
Barium	mg/kg	--	--	--	--
Beryllium	mg/kg	--	--	--	--
Cadmium	mg/kg	--	--	--	--
Chromium	mg/kg	--	--	--	--
Cobalt	mg/kg	--	--	--	--
Copper	mg/kg	--	--	--	--
Iron	mg/kg	--	--	--	--
Lead	mg/kg	--	--	--	--
Manganese	mg/kg	--	--	--	--
Mercury	mg/kg	--	--	--	--
Nickel	mg/kg	--	--	--	--
Selenium	mg/kg	--	--	--	--
Silver	mg/kg	--	--	--	--
Thallium	mg/kg	--	--	--	--
Vanadium	mg/kg	--	--	--	--
Zinc	mg/kg	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs)					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	--	--	--	--
2,4,5-Trichlorophenol	mg/kg	--	--	--	--
2,4,6-Trichlorophenol	mg/kg	--	--	--	--
2,4-Dichlorophenol	mg/kg	--	--	--	--
2,4-Dimethylphenol	mg/kg	--	--	--	--
2,4-Dinitrophenol	mg/kg	--	--	--	--
2,4-Dinitrotoluene	mg/kg	--	--	--	--
2,6-Dinitrotoluene	mg/kg	--	--	--	--
2-Chloronaphthalene	mg/kg	--	--	--	--
2-Chlorophenol	mg/kg	--	--	--	--
2-Methylnaphthalene	mg/kg	--	--	--	--
2-Methylphenol	mg/kg	--	--	--	--
2-Nitroaniline	mg/kg	--	--	--	--
2-Nitrophenol	mg/kg	--	--	--	--
3,3'-Dichlorobenzidine	mg/kg	--	--	--	--
3-Nitroaniline	mg/kg	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/kg	--	--	--	--
4-Bromophenyl phenyl ether	mg/kg	--	--	--	--
4-Chloro-3-methylphenol	mg/kg	--	--	--	--
4-Chloroaniline	mg/kg	--	--	--	--
4-Chlorophenyl phenyl ether	mg/kg	--	--	--	--
4-Methylphenol	mg/kg	--	--	--	--
4-Nitroaniline	mg/kg	--	--	--	--
4-Nitrophenol	mg/kg	--	--	--	--
Acenaphthene	mg/kg	--	--	--	--
Acenaphthylene	mg/kg	--	--	--	--
Acetophenone	mg/kg	--	--	--	--
Anthracene	mg/kg	--	--	--	--
Atrazine	mg/kg	--	--	--	--
Benzaldehyde	mg/kg	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--	--

TABLE 2.3
 AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

AOI:	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:	B-X129Y247K	B-X129Y247L	B-X129Y247L	B-X129Y247L	B-X129Y247L
Sample Identification:	S-102604-JC-342	S-102604-JC-345	S-102604-JC-346	S-102604-JC-347	S-102604-JC-348
Sample Date:	10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004
Sample Depth:	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(6-8) ft
Sample Type:					
	Units				
Biphenyl (1,1-Biphenyl)	mg/kg	--	--	--	--
bis(2-Chloroethoxy)methane	mg/kg	--	--	--	--
bis(2-Chloroethyl)ether	mg/kg	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	--	--	--	--
Butyl benzylphthalate (BBP)	mg/kg	--	--	--	--
Caprolactam	mg/kg	--	--	--	--
Carbazole	mg/kg	--	--	--	--
Chrysene	mg/kg	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--	--
Dibenzofuran	mg/kg	--	--	--	--
Diethyl phthalate	mg/kg	--	--	--	--
Dimethyl phthalate	mg/kg	--	--	--	--
Di-n-butylphthalate (DBP)	mg/kg	--	--	--	--
Di-n-octyl phthalate (DnOP)	mg/kg	--	--	--	--
Fluoranthene	mg/kg	--	--	--	--
Fluorene	mg/kg	--	--	--	--
Hexachlorobenzene	mg/kg	--	--	--	--
Hexachlorobutadiene	mg/kg	--	--	--	--
Hexachlorocyclopentadiene	mg/kg	--	--	--	--
Hexachloroethane	mg/kg	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--
Isophorone	mg/kg	--	--	--	--
Naphthalene	mg/kg	--	--	--	--
Nitrobenzene	mg/kg	--	--	--	--
N-Nitrosodi-n-propylamine	mg/kg	--	--	--	--
N-Nitrosodiphenylamine	mg/kg	--	--	--	--
Pentachlorophenol	mg/kg	--	--	--	--
Phenanthrene	mg/kg	--	--	--	--
Phenol	mg/kg	--	--	--	--
Pyrene	mg/kg	--	--	--	--
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	mg/kg	--	--	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	--	--	--
1,1,2-Trichloroethane	mg/kg	--	--	--	--
1,1-Dichloroethane	mg/kg	--	--	--	--
1,1-Dichloroethene	mg/kg	--	--	--	--
1,2,4-Trichlorobenzene	mg/kg	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	--	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	--	--	--	--
1,2-Dichlorobenzene	mg/kg	--	--	--	--
1,2-Dichloroethane	mg/kg	--	--	--	--
1,2-Dichloropropane	mg/kg	--	--	--	--
1,3-Dichlorobenzene	mg/kg	--	--	--	--
1,4-Dichlorobenzene	mg/kg	--	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	--	--	--	--
2-Hexanone	mg/kg	--	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	--	--	--	--
Acetone	mg/kg	--	--	--	--
Benzene	mg/kg	--	--	--	--
Bromodichloromethane	mg/kg	--	--	--	--
Bromoform	mg/kg	--	--	--	--
Bromomethane (Methyl bromide)	mg/kg	--	--	--	--
Carbon disulfide	mg/kg	--	--	--	--
Carbon tetrachloride	mg/kg	--	--	--	--
Chlorobenzene	mg/kg	--	--	--	--
Chloroethane	mg/kg	--	--	--	--
Chloroform (Trichloromethane)	mg/kg	--	--	--	--
Chloromethane (Methyl chloride)	mg/kg	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	--	--	--	--
cis-1,3-Dichloropropene	mg/kg	--	--	--	--
Cyclohexane	mg/kg	--	--	--	--
Dibromochloromethane	mg/kg	--	--	--	--
Dichlorodifluoromethane (CFC-12)	mg/kg	--	--	--	--
Ethylbenzene	mg/kg	--	--	--	--
Isopropyl benzene	mg/kg	--	--	--	--
Methyl acetate	mg/kg	--	--	--	--
Methyl cyclohexane	mg/kg	--	--	--	--
Methyl tert butyl ether (MTBE)	mg/kg	--	--	--	--

TABLE 2.3
 AOI 21-1 INVESTIGATIVE SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

AOI:		A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea	A021-1_A021-3_A021_WestPlantArea
Sample Location:		B-X129Y247K	B-X129Y247L	B-X129Y247L	B-X129Y247L	B-X129Y247L
Sample Identification:		S-102604-JC-342	S-102604-JC-345	S-102604-JC-346	S-102604-JC-347	S-102604-JC-348
Sample Date:		10/26/2004	10/26/2004	10/26/2004	10/26/2004	10/26/2004
Sample Depth:		(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(6-8) ft
Sample Type:						
	Units					
Methylene chloride	mg/kg	--	--	--	--	--
Styrene	mg/kg	--	--	--	--	--
Tetrachloroethene	mg/kg	--	--	--	--	--
Toluene	mg/kg	--	--	--	--	--
trans-1,2-Dichloroethene	mg/kg	--	--	--	--	--
trans-1,3-Dichloropropene	mg/kg	--	--	--	--	--
Trichloroethene	mg/kg	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	mg/kg	--	--	--	--	--
Trifluorotrichloroethane (Freon 113)	mg/kg	--	--	--	--	--
Vinyl chloride	mg/kg	--	--	--	--	--
Xylenes (total)	mg/kg	--	--	--	--	--
General Chemistry						
Cyanide (amenable)	mg/kg	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--
Total solids	%	87.4	81.0	92.2	85.5	83.7

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
 AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Area:	A021-2	A021-2	A021-2	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea
Sample Location:	AOI21-27722	AOI21-27723	AOI21-27724	B-X132Y186B	B-X132Y186B	B-X132Y186B	B-X143Y193AA	B-X143Y193AA	B-X143Y193AA	B-X143Y193AA	B-X143Y193AA	B-X143Y193AA	B-X143Y193AA	B-X143Y193AA
Sample Identification:	S-AOI21-061808-MB-27722	S-AOI21-061808-MB-27723	S-AOI21-061808-MB-27724	S-040804-JC-050	S-040804-JC-051	S-040804-JC-052	S-112204-DD-690	S-112204-DD-691	S-112204-DD-692	S-112204-DD-693	S-112204-DD-694	S-112204-DD-695	S-112204-DD-696	S-112204-DD-696
Sample Date:	6/18/2008	6/18/2008	6/18/2008	4/8/2004	4/8/2004	4/8/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004
Sample Depth:	(0-0.5) ft	(0-0.5) ft	(0-0.5) ft	(0-2) ft	(6-8) ft	(38-40.9) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(10-12) ft	(10-12) ft
Sample Type:														
	Units													
PCBs														
Aroclor-1016 (PCB-1016)	mg/kg	0.17 U	0.18 U	0.36 U	0.37 U	0.19 U	0.045 UJ	20 U	2.1 U	0.8 U	3.7 U	0.041 U	0.04 U	0.042 U
Aroclor-1221 (PCB-1221)	mg/kg	0.17 U	0.18 U	0.36 U	0.37 U	0.19 U	0.045 UJ	20 U	2.1 U	0.8 U	3.7 U	0.041 U	0.04 U	0.042 U
Aroclor-1232 (PCB-1232)	mg/kg	0.17 U	0.18 U	0.36 U	0.37 U	0.19 U	0.045 UJ	20 U	2.1 U	0.8 U	3.7 U	0.041 U	0.04 U	0.042 U
Aroclor-1242 (PCB-1242)	mg/kg	0.17 U	0.18 U	0.36 U	0.37 U	0.19 U	0.045 UJ	20 U	2.1 U	0.8 U	26	0.034 J	0.04 U	0.042 U
Aroclor-1248 (PCB-1248)	mg/kg	1.4	1.5	5.5	4.7	2.8	0.02 J	130	15	5.1	3.7 U	0.041 U	0.04 U	0.0086 J
Aroclor-1254 (PCB-1254)	mg/kg	0.17 U	0.18 U	0.36 U	0.37 U	0.19 U	0.045 UJ	20 U	2.1 U	0.8 U	3.7 U	0.041 U	0.04 U	0.042 U
Aroclor-1260 (PCB-1260)	mg/kg	0.17 U	0.37	0.79	0.37 U	0.19 U	0.045 UJ	20	2.3	0.62 J	3.5 J	0.041 U	0.04 U	0.042 U
Total PCBs	mg/kg	1.4	1.87	6.29	4.7	2.8	0.02 J	150	17.3	5.72 J	29.5 J	0.034 J	ND	0.0086 J
General Chemistry														
Cyanide (amenable)	mg/kg	--	--	--	0.56 U	0.59 U	0.68 U	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	0.56 U	0.59 U	0.68 U	--	--	--	--	--	--	--
Total solids	%	97.4	91.8	90.9	89.5	85.3	73.6	80.6	80.1	82.4	88.7	80.5	81.6	78.7

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193AA	B-X143Y193AB	B-X143Y193AB	B-X143Y193AB	B-X143Y193AB	B-X143Y193AB	B-X143Y193AB	B-X143Y193AB	B-X143Y193AB	B-X143Y193AB	B-X143Y193AC	B-X143Y193AC	B-X143Y193AC	B-X143Y193AC	
Sample Identification:	S-112204-DD-697	S-112304-DD-698	S-112304-DD-699	S-112304-DD-700	S-112304-DD-701	S-112304-DD-702	S-112304-DD-703	S-112304-DD-704	S-112304-DD-707	S-112304-DD-707	S-112904-DD-740	S-112904-DD-741	S-112904-DD-742	S-112904-DD-743	
Sample Date:	11/22/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/29/2004	11/29/2004	11/29/2004	11/29/2004	
Sample Depth:	(12-14) ft	(0-0.5) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(14-16) ft	(0-0.5) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	
Sample Type:			Duplicate									Duplicate			
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.043 U	8.1 U	8.1 U	1.9 U	20 U	80 U	0.41 U	0.042 U	0.042 UJ	4.2 U	8.3 U	3.8 U	20 U	3.8 U
Aroclor-1221 (PCB-1221)	mg/kg	0.043 U	8.1 U	8.1 U	1.9 U	20 U	80 U	0.41 U	0.042 U	0.042 UJ	4.2 U	8.3 U	3.8 U	20 U	3.8 U
Aroclor-1232 (PCB-1232)	mg/kg	0.043 U	8.1 U	8.1 U	1.9 U	20 U	80 U	0.41 U	0.042 U	0.042 UJ	4.2 U	8.3 U	3.8 U	20 U	3.8 U
Aroclor-1242 (PCB-1242)	mg/kg	0.043 U	8.1 U	8.1 U	1.9 U	20 U	80 U	0.41 U	0.042 U	0.042 UJ	4.2 U	8.3 U	3.8 U	130	20
Aroclor-1248 (PCB-1248)	mg/kg	0.043 U	54	32	9.9	77	440	2.5	0.052	0.042 UJ	34	48	23	20 U	3.8 U
Aroclor-1254 (PCB-1254)	mg/kg	0.043 U	8.1 U	8.1 U	1.9 U	20 U	80 U	0.41 U	0.042 U	0.042 UJ	4.2 U	8.3 U	3.8 U	20 U	3.8 U
Aroclor-1260 (PCB-1260)	mg/kg	0.043 U	8 J	4.9 J	1.4 J	20 U	37 J	0.14 J	0.042 U	0.042 UJ	5.7	8.6	3 J	11 J	1.6 J
Total PCBs	mg/kg	ND	62 J	36.9 J	11.3 J	77	477 J	2.64 J	0.052	ND	39.7	56.6	26 J	141 J	21.6 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	77.3	81.5	81.7	87.1	83.8	82.9	81.0	78.5	78.4	78.9	79.2	87.2	82.9	86.3

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193AC	B-X143Y193AC	B-X143Y193AC	B-X143Y193AC	B-X143Y193AC	B-X143Y193AC	B-X143Y193AC	B-X143Y193AC	B-X143Y193AD	B-X143Y193AD	B-X143Y193AD	B-X143Y193AD	B-X143Y193AD	B-X143Y193AE	
Sample Identification:	S-112904-DD-745	S-112904-DD-746	S-112904-DD-747	S-112904-DD-748	S-112904-DD-749	S-112904-DD-750	S-112904-DD-751	S-112304-DD-708	S-112304-DD-709	S-112304-DD-710	S-112304-DD-711	S-112304-DD-712	S-112304-DD-713	S-112304-DD-731	
Sample Date:	11/29/2004	11/29/2004	11/29/2004	11/29/2004	11/29/2004	11/29/2004	11/29/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	
Sample Depth:	(6-8) ft	(8-10) ft	(10-12) ft	(12-14) ft	(14-16) ft	(16-18) ft	(20-22) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(0-0.5) ft	
Sample Type:															
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	81 U	2.1 U	0.039 UJ	0.043 UJ	210 UJ	220 UJ	7.8 UJ	34 U	3.8 U	0.38 U	0.04 U	0.041 U	0.037 U	0.84 U
Aroclor-1221 (PCB-1221)	mg/kg	81 U	2.1 U	0.039 UJ	0.043 UJ	210 UJ	220 UJ	7.8 UJ	34 U	3.8 U	0.38 U	0.04 U	0.041 U	0.037 U	0.84 U
Aroclor-1232 (PCB-1232)	mg/kg	81 U	2.1 U	0.039 UJ	0.043 UJ	210 UJ	220 UJ	7.8 UJ	34 U	3.8 U	0.38 U	0.04 U	0.041 U	0.037 U	0.84 U
Aroclor-1242 (PCB-1242)	mg/kg	570	11	0.24 J	0.043 UJ	690 J	1400 J	52 J	34 U	3.8 U	0.38 U	0.04 U	0.041 U	0.037 U	0.84 U
Aroclor-1248 (PCB-1248)	mg/kg	81 U	2.1 U	0.039 UJ	0.04 J	210 UJ	220 UJ	7.8 UJ	270	27	2.1	0.17	0.014 J	0.0084 J	6.7
Aroclor-1254 (PCB-1254)	mg/kg	81 U	2.1 U	0.039 UJ	0.043 UJ	210 UJ	220 UJ	7.8 UJ	34 U	3.8 U	0.38 U	0.04 U	0.041 U	0.037 U	0.84 U
Aroclor-1260 (PCB-1260)	mg/kg	81 U	1 J	0.032 J	0.043 UJ	110 J	190 J	8.1 J	36	3.4 J	0.21 J	0.038 J	0.041 U	0.037 U	1.4
Total PCBs	mg/kg	570	12 J	0.272 J	0.04 J	800 J	1590 J	60.1 J	306	30.4 J	2.31 J	0.208 J	0.014 J	0.0084 J	8.1
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	81.7	77.7	83.9	77.1	80.3	74.8	84.5	96.3	85.9	87.7	81.8	80.8	88.0	79.0

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193AE	B-X143Y193AE	B-X143Y193AE	B-X143Y193AE	B-X143Y193AE	B-X143Y193AE	B-X143Y193AF	B-X143Y193AF	B-X143Y193AF	B-X143Y193AF	B-X143Y193AF	B-X143Y193AF	B-X143Y193AG	B-X143Y193AG	
Sample Identification:	S-112304-DD-732	S-112304-DD-733	S-112304-DD-734	S-112304-DD-735	S-112304-DD-736	S-112304-DD-717	S-112304-DD-718	S-112304-DD-719	S-112304-DD-720	S-112304-DD-721	S-112304-DD-722	S-112304-DD-723	S-113004-DD-752	S-113004-DD-753	
Sample Date:	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/30/2004	11/30/2004	
Sample Depth:	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(0-0.5) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(0-0.5) ft	(0-0.5) ft	
Sample Type:						Duplicate								Duplicate	
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.77 U	0.2 U	0.04 U	0.2 U	0.04 U	0.83 U	0.87 U	0.078 U	0.078 U	0.04 U	7.7 U	0.19 U	2 U	2 U
Aroclor-1221 (PCB-1221)	mg/kg	0.77 U	0.2 U	0.04 U	0.2 U	0.04 U	0.83 U	0.87 U	0.078 U	0.078 U	0.04 U	7.7 U	0.19 U	2 U	2 U
Aroclor-1232 (PCB-1232)	mg/kg	0.77 U	0.2 U	0.04 U	0.2 U	0.04 U	0.83 U	0.87 U	0.078 U	0.078 U	0.04 U	7.7 U	0.19 U	2 U	2 U
Aroclor-1242 (PCB-1242)	mg/kg	0.77 U	0.2 U	0.04 U	0.2 U	0.04 U	0.83 U	0.87 U	0.078 U	0.078 U	0.04 U	64	0.38	2 U	2 U
Aroclor-1248 (PCB-1248)	mg/kg	6.2	1.1	0.23	0.94	0.105 U	6.9	6.9	0.35	0.52	0.21	7.7 U	0.19 U	9.3	11
Aroclor-1254 (PCB-1254)	mg/kg	0.77 U	0.2 U	0.04 U	0.2 U	0.04 U	0.83 U	0.87 U	0.078 U	0.078 U	0.04 U	7.7 U	0.19 U	2 U	2 U
Aroclor-1260 (PCB-1260)	mg/kg	0.69 J	0.17 J	0.025 J	0.2 U	0.04 U	1.8	1.6	0.059 J	0.094	0.04 U	7.7 U	0.19 U	1.4 J	1.5 J
Total PCBs	mg/kg	6.89 J	1.27 J	0.255 J	0.94	ND	8.7	8.5	0.409 J	0.614	0.21	64	0.38	10.7 J	12.5 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	85.8	84.1	82.6	81.3	81.6	79.4	75.6	85.0	84.1	83.0	86.1	84.9	84.4	81.4

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
 AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193AG	B-X143Y193AG	B-X143Y193AH	B-X143Y193AH	B-X143Y193AH	B-X143Y193AH	B-X143Y193AH	B-X143Y193AH	B-X143Y193AH	B-X143Y193AH	B-X143Y193AI	B-X143Y193AI	B-X143Y193AI	B-X143Y193AJ	
Sample Identification:	S-113004-DD-754	S-113004-DD-755	S-113004-DD-756	S-113004-DD-757	S-113004-DD-758	S-113004-DD-759	S-113004-DD-760	S-113004-DD-761	S-113004-DD-762	S-120104-DD-771	S-120804-KMV-854	S-120804-KMV-855	S-120804-KMV-856	S-120904-KMV-857	
Sample Date:	11/30/2004	11/30/2004	11/30/2004	11/30/2004	11/30/2004	11/30/2004	11/30/2004	11/30/2004	11/30/2004	12/1/2004	12/8/2004	12/8/2004	12/8/2004	12/9/2004	
Sample Depth:	(1-2) ft	(2-4) ft	(0-0.5) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(12.5-14.5) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(0-0.5) ft	
Sample Type:				Duplicate											
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.77 U	3.9 U	0.73 U	2 U	0.39 U	2 U	0.041 U	0.08 U	0.2 U	0.042 U	4.2 U	4 U	0.042 U	4 U
Aroclor-1221 (PCB-1221)	mg/kg	0.77 U	3.9 U	0.73 U	2 U	0.39 U	2 U	0.041 U	0.08 U	0.2 U	0.042 U	4.2 U	4 U	0.042 U	4 U
Aroclor-1232 (PCB-1232)	mg/kg	0.77 U	3.9 U	0.73 U	2 U	0.39 U	2 U	0.041 U	0.08 U	0.2 U	0.042 U	4.2 U	4 U	0.042 U	4 U
Aroclor-1242 (PCB-1242)	mg/kg	0.77 U	3.9 U	0.73 U	2 U	0.39 U	2 U	0.041 U	0.08 U	0.67	0.042 U	4.2 U	4 U	0.042 U	4 U
Aroclor-1248 (PCB-1248)	mg/kg	4.3	19	4.1	11	2	11	0.087	0.45	0.2 U	0.011 J	18	32	0.28	23 J
Aroclor-1254 (PCB-1254)	mg/kg	0.77 U	3.9 U	0.73 U	2 U	0.39 U	2 U	0.041 U	0.08 U	0.2 U	0.042 U	4.2 U	4 U	0.042 U	4 U
Aroclor-1260 (PCB-1260)	mg/kg	0.77 U	4.4	0.94	2 U	0.39 U	2 U	0.016 J	0.08 U	0.088 J	0.042 U	3.2 J	6.6	0.08	4.1 J
Total PCBs	mg/kg	4.3	23.4	5.04	11	2	11	0.103 J	0.45	0.758 J	0.011 J	21.2 J	38.6	0.36	27.1 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	85.2	83.7	90.4	82.7	84.6	82.8	81.1	82.5	83.0	78.2	78.7	83.5	78.2	83.2

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
 AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193AJ	B-X143Y193AJ	B-X143Y193AK	B-X143Y193AK	B-X143Y193AK	B-X143Y193AL	B-X143Y193AL	B-X143Y193AM	B-X143Y193AM	B-X143Y193AM	B-X143Y193AM	B-X143Y193AM	B-X143Y193AM	B-X143Y193AM	
Sample Identification:	S-120904-KMV-858	S-120904-KMV-859	S-120904-KMV-860	S-120904-KMV-861	S-120904-KMV-862	S-120904-KMV-863	S-120904-KMV-864	S-120904-KMV-865	S-120904-KMV-866	S-120904-KMV-867	S-120904-KMV-868	S-120904-KMV-869	S-120904-KMV-870	S-120904-KMV-871	
Sample Date:	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	
Sample Depth:	(1-2) ft	(2-4) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(0-0.5) ft	(1-2) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(8-10) ft	
Sample Type:														Duplicate	
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	19 U	20 U	2 U	1.9 U	0.36 U	4.3 U	3.8 U	3.7 U	0.2 U	0.079 U	0.39 U	0.039 U	0.041 U	0.04 U
Aroclor-1221 (PCB-1221)	mg/kg	19 U	20 U	2 U	1.9 U	0.36 U	4.3 U	3.8 U	3.7 U	0.2 U	0.079 U	0.39 U	0.039 U	0.041 U	0.04 U
Aroclor-1232 (PCB-1232)	mg/kg	19 U	20 U	2 U	1.9 U	0.36 U	4.3 U	3.8 U	3.7 U	0.2 U	0.079 U	0.39 U	0.039 U	0.041 U	0.04 U
Aroclor-1242 (PCB-1242)	mg/kg	19 U	20 U	2 U	1.9 U	0.36 U	4.3 U	3.8 U	3.7 U	0.2 U	0.079 U	0.39 U	0.039 U	0.041 U	0.04 U
Aroclor-1248 (PCB-1248)	mg/kg	36 J	46 J	7 J	5.8 J	2.4 J	17 J	6.2 J	16 J	0.58 J	0.2 J	1.4 J	0.16 J	0.11 J	0.014 J
Aroclor-1254 (PCB-1254)	mg/kg	19 U	20 U	2 U	1.9 U	0.36 U	4.3 U	3.8 U	3.7 U	0.2 U	0.079 U	0.39 U	0.039 U	0.041 U	0.04 U
Aroclor-1260 (PCB-1260)	mg/kg	19 U	9 J	0.97 J	0.63 J	0.28 J	2.5 J	3.8 U	2 J	0.071 J	0.028 J	0.17 J	0.039 U	0.018 J	0.04 U
Total PCBs	mg/kg	36 J	55 J	7.97 J	6.43 J	2.68 J	19.5 J	6.2 J	18 J	0.651 J	0.228 J	1.57 J	0.16 J	0.128 J	0.014 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	85.1	80.7	83.1	84.9	90.8	76.1	87.2	88.1	81.5	83.8	85.4	83.8	80.1	81.7

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193AM	B-X143Y193AN	B-X143Y193AN	B-X143Y193AN	B-X143Y193AN	B-X143Y193AN	B-X143Y193AN	B-X143Y193AN	B-X143Y193AN	B-X143Y193AN	B-X143Y193AN	B-X143Y193AN	B-X143Y193AO	B-X143Y193AO	
Sample Identification:	S-120904-KMV-873	S-120904-KMV-875	S-120904-KMV-876	S-120904-KMV-877	S-120904-KMV-878	S-120904-KMV-879	S-120904-KMV-880	S-120904-KMV-881	S-120904-KMV-882	S-120904-KMV-884	S-120904-KMV-885	S-120604-KMV-785	S-120604-KMV-786	S-120604-KMV-787	
Sample Date:	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/9/2004	12/6/2004	12/6/2004	12/6/2004	
Sample Depth:	(12-14) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(10-12) ft	(12-14) ft	(16-18) ft	(16-18) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	
Sample Type:											Duplicate				
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.041 UJ	0.078 U	0.04 U	0.04 U	0.04 U	0.39 U	0.21 U	4 U	0.08 U	0.043 U	0.041 U	0.23 U	0.077 U	0.04 U
Aroclor-1221 (PCB-1221)	mg/kg	0.041 UJ	0.078 U	0.04 U	0.04 U	0.04 U	0.39 U	0.21 U	4 U	0.08 U	0.043 U	0.041 U	0.23 U	0.077 U	0.04 U
Aroclor-1232 (PCB-1232)	mg/kg	0.041 UJ	0.078 U	0.04 U	0.04 U	0.04 U	0.39 U	0.21 U	4 U	0.08 U	0.043 U	0.041 U	0.23 U	0.077 U	0.04 U
Aroclor-1242 (PCB-1242)	mg/kg	0.041 UJ	0.078 U	0.04 U	0.04 U	0.04 U	0.39 U	0.21 U	4 U	0.08 U	0.043 U	0.041 U	0.23 U	0.077 U	0.04 U
Aroclor-1248 (PCB-1248)	mg/kg	0.0091 J	0.25 J	0.046 J	0.0034 J	0.12 J	2.1	0.64	12	0.24	0.043 U	0.041 U	2.2	0.62	0.15
Aroclor-1254 (PCB-1254)	mg/kg	0.041 UJ	0.078 U	0.04 U	0.04 U	0.04 U	0.39 U	0.21 U	4 U	0.08 U	0.043 U	0.041 U	0.23 U	0.077 U	0.04 U
Aroclor-1260 (PCB-1260)	mg/kg	0.041 UJ	0.077 J	0.013 J	0.04 U	0.015 J	0.24 J	0.1 J	1.4 J	0.067 J	0.043 U	0.041 U	0.49	0.11	0.035 J
Total PCBs	mg/kg	0.0091 J	0.327 J	0.059 J	0.034 J	0.135 J	2.34 J	0.74 J	13.4 J	0.307 J	ND	ND	2.69	0.73	0.185 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	79.7	84.3	82.0	82.8	81.8	84.1	79.0	82.4	82.3	76.5	79.6	72.5	86.2	83.4

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193AO	B-X143Y193AO	B-X143Y193AO	B-X143Y193AP	B-X143Y193AP	B-X143Y193AP	B-X143Y193AP	B-X143Y193AP	B-X143Y193AP	B-X143Y193AP	B-X143Y193AP	B-X143Y193AQ	B-X143Y193AQ	B-X143Y193AQ	
Sample Identification:	S-120604-KMV-788	S-120604-KMV-789	S-120604-KMV-790	S-120704-KMV-798	S-120704-KMV-799	S-120704-KMV-800	S-120704-KMV-801	S-120704-KMV-802	S-120704-KMV-803	S-120704-KMV-813	S-120804-KMV-815	S-120804-KMV-829	S-120804-KMV-816	S-120804-KMV-817	
Sample Date:	12/6/2004	12/6/2004	12/6/2004	12/7/2004	12/7/2004	12/7/2004	12/7/2004	12/7/2004	12/7/2004	12/7/2004	12/7/2004	12/8/2004	12/8/2004	12/8/2004	
Sample Depth:	(4-6) ft	(6-8) ft	(8-10) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(28-30) ft	(0-0.5) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	
Sample Type:												Duplicate			
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.041 U	0.078 U	0.2 U	0.079 U	0.076 U	0.04 U	0.2 U	0.041 U	0.2 U	0.04 U	0.086 U	0.2 U	0.038 U	0.37 U
Aroclor-1221 (PCB-1221)	mg/kg	0.041 U	0.078 U	0.2 U	0.079 U	0.076 U	0.04 U	0.2 U	0.041 U	0.2 U	0.04 U	0.086 U	0.2 U	0.038 U	0.37 U
Aroclor-1232 (PCB-1232)	mg/kg	0.041 U	0.078 U	0.2 U	0.079 U	0.076 U	0.04 U	0.2 U	0.041 U	0.2 U	0.04 U	0.086 U	0.2 U	0.038 U	0.37 U
Aroclor-1242 (PCB-1242)	mg/kg	0.041 U	0.078 U	0.2 U	0.079 U	0.076 U	0.04 U	0.2 U	0.041 U	0.2 U	0.04 U	0.086 U	0.2 U	0.038 U	0.37 U
Aroclor-1248 (PCB-1248)	mg/kg	0.17	0.83	0.82	0.49	0.44	0.25 J	1.3	0.25	0.92	0.0089 J	0.65	1	0.23 J	1.6
Aroclor-1254 (PCB-1254)	mg/kg	0.041 U	0.078 U	0.2 U	0.079 U	0.076 U	0.04 U	0.2 U	0.041 U	0.2 U	0.04 U	0.086 U	0.2 U	0.038 U	0.37 U
Aroclor-1260 (PCB-1260)	mg/kg	0.029 J	0.082	0.094 J	0.11	0.059 J	0.033 J	0.2	0.025 J	0.069 J	0.04 U	0.12	0.16 J	0.029 J	0.13 J
Total PCBs	mg/kg	0.199 J	0.912	0.914 J	0.6	0.499 J	0.283 J	1.5	0.275 J	0.989 J	0.0089 J	0.77	1.16 J	0.259 J	1.73 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	80.6	84.3	84.3	83.3	86.8	81.9	81.1	80.8	84.1	82.0	76.7	83.6	86.9	88.7

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	
Sample Location:	B-X143Y193AQ	B-X143Y193AQ	B-X143Y193AQ	B-X143Y193AQ	B-X143Y193AR	B-X143Y193AR	B-X143Y193AR	B-X143Y193AR	B-X143Y193AR	B-X143Y193AR	B-X143Y193AS	B-X143Y193AS	B-X143Y193AS	B-X143Y193AS	
Sample Identification:	S-120804-KMV-818	S-120804-KMV-819	S-120804-KMV-820	S-120804-KMV-827	S-120804-KMV-830	S-120804-KMV-831	S-120804-KMV-832	S-120804-KMV-833	S-120804-KMV-834	S-120804-KMV-835	S-120804-KMV-839	S-120804-KMV-840	S-120804-KMV-841	S-120804-KMV-842	
Sample Date:	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	
Sample Depth:	(4-6) ft	(6-8) ft	(8-10) ft	(20-22) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(0-0.5) ft	(1-2) ft	(1-2) ft	(2-4) ft	
Sample Type:													Duplicate		
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.8 U	0.81 U	0.83 U	0.044 U	0.073 U	0.19 U	0.075 U	0.078 U	0.19 U	0.2 U	0.076 U	0.37 U	0.38 U	0.37 U
Aroclor-1221 (PCB-1221)	mg/kg	0.8 U	0.81 U	0.83 U	0.044 U	0.073 U	0.19 U	0.075 U	0.078 U	0.19 U	0.2 U	0.076 U	0.37 U	0.38 U	0.37 U
Aroclor-1232 (PCB-1232)	mg/kg	0.8 U	0.81 U	0.83 U	0.044 U	0.073 U	0.19 U	0.075 U	0.078 U	0.19 U	0.2 U	0.076 U	0.37 U	0.38 U	0.37 U
Aroclor-1242 (PCB-1242)	mg/kg	0.8 U	0.81 U	0.83 U	0.044 U	0.073 U	0.19 U	0.075 U	0.078 U	0.19 U	0.2 U	0.076 U	0.37 U	0.38 U	0.37 U
Aroclor-1248 (PCB-1248)	mg/kg	6.8	4.6	4.8	0.044 U	0.55	1.4	0.69	0.71	1.2	1.1	1.2 J	2.3	2.6	2.6
Aroclor-1254 (PCB-1254)	mg/kg	0.8 U	0.81 U	0.83 U	0.044 U	0.073 U	0.19 U	0.075 U	0.078 U	0.19 U	0.2 U	0.076 U	0.37 U	0.38 U	0.37 U
Aroclor-1260 (PCB-1260)	mg/kg	0.35 J	0.81 U	0.83 U	0.044 U	0.11	0.26	0.058 J	0.042 J	0.11 J	0.2 U	0.31 J	0.32 J	0.36 J	0.26 J
Total PCBs	mg/kg	7.15 J	4.6	4.8	ND	0.66	1.66	0.748 J	0.752 J	1.31 J	1.1	1.51 J	2.62 J	2.96 J	2.86 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	82.3	81.8	79.2	74.2	90.6	88.0	87.5	84.1	85.4	80.6	86.7	88.2	87.6	88.2

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
 AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193AS	B-X143Y193AS	B-X143Y193AS	B-X143Y193AT	B-X143Y193AT	B-X143Y193AT	B-X143Y193AT	B-X143Y193AT	B-X143Y193AT	B-X143Y193AT	B-X143Y193AT	B-X143Y193AU	B-X143Y193AU	B-X143Y193AV	B-X143Y193AV
Sample Identification:	S-120804-KMV-843	S-120804-KMV-844	S-120804-KMV-845	S-120804-KMV-847	S-120804-KMV-848	S-120804-KMV-849	S-120804-KMV-850	S-120804-KMV-851	S-120804-KMV-852	S-120804-KMV-853	S-121604-KMV-891	S-121604-KMV-892	S-122104-JC-912	S-122104-JC-913	
Sample Date:	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/8/2004	12/16/2004	12/16/2004	12/21/2004	12/21/2004	
Sample Depth:	(4-6) ft	(6-8) ft	(8-10) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(10-12) ft	(0-0.5) ft	(1-2) ft	(0-0.5) ft	(1-2) ft	
Sample Type:															
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	7.9 U	0.4 U	0.04 U	3.9 U	0.38 U	0.38 U	0.81 U	0.045 U	0.043 U	0.043 U	2.2 U	4.1 U	77 U	2 U
Aroclor-1221 (PCB-1221)	mg/kg	7.9 U	0.4 U	0.04 U	3.9 U	0.38 U	0.38 U	0.81 U	0.045 U	0.043 U	0.043 U	2.2 U	4.1 U	77 U	2 U
Aroclor-1232 (PCB-1232)	mg/kg	7.9 U	0.4 U	0.04 U	3.9 U	0.38 U	0.38 U	0.81 U	0.045 U	0.043 U	0.043 U	2.2 U	4.1 U	77 U	2 U
Aroclor-1242 (PCB-1242)	mg/kg	7.9 U	0.4 U	0.04 U	3.9 U	0.38 U	0.38 U	0.81 U	0.045 U	0.043 U	0.043 U	2.2 U	4.1 U	77 U	2 U
Aroclor-1248 (PCB-1248)	mg/kg	46	3.8	0.04 U	13	3.5	2.3	0.81 U	0.038 J	0.043 U	0.023 J	27	28	690	10
Aroclor-1254 (PCB-1254)	mg/kg	7.9 U	0.4 U	0.04 U	3.9 U	0.38 U	0.38 U	2	0.045 U	0.043 U	0.043 U	2.2 U	4.1 U	77 U	2 U
Aroclor-1260 (PCB-1260)	mg/kg	4.8 J	0.39 J	0.04 U	1.7 J	0.55	0.35 J	0.81 U	0.045 U	0.043 U	0.043 U	6.4	6.1	69 J	1.7 J
Total PCBs	mg/kg	50.8 J	4.19 J	ND	14.7 J	4.05	2.65 J	2	0.038 J	ND	0.023 J	33.4	34.1	759 J	11.7 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	83.1	82.9	81.5	84.4	87.0	86.8	81.6	73.7	76.8	76.3	74.0	80.4	85.6	81.0

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193AV	B-X143Y193AV	B-X143Y193AV	B-X143Y193AV	B-X143Y193AW	B-X143Y193AW	B-X143Y193AW	B-X143Y193AW	B-X143Y193AW	B-X143Y193AW	B-X143Y193AX	B-X143Y193AX	B-X143Y193AX	B-X143Y193AX	
Sample Identification:	S-122104-JC-914	S-122104-JC-915	S-122104-JC-916	S-122104-JC-917	S-122104-JC-918	S-122104-JC-919	S-122104-JC-920	S-122104-JC-921	S-122104-JC-922	S-122104-JC-923	S-122104-JC-924	S-122104-JC-925	S-122104-JC-926	S-122104-JC-927	
Sample Date:	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	
Sample Depth:	(2-4) ft	(2-4) ft	(4-6) ft	(6-8) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(2-4) ft	(4-6) ft	
Sample Type:		Duplicate											Duplicate		
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.042 U	0.042 U	0.041 U	0.044 U	0.2 U	0.19 U	0.36 U	0.042 U	0.045 U	0.039 U	0.039 U	0.39 U	0.78 U	0.078 U
Aroclor-1221 (PCB-1221)	mg/kg	0.042 U	0.042 U	0.041 U	0.044 U	0.2 U	0.19 U	0.36 U	0.042 U	0.045 U	0.039 U	0.039 U	0.39 U	0.78 U	0.078 U
Aroclor-1232 (PCB-1232)	mg/kg	0.042 U	0.042 U	0.041 U	0.044 U	0.2 U	0.19 U	0.36 U	0.042 U	0.045 U	0.039 U	0.039 U	0.39 U	0.78 U	0.078 U
Aroclor-1242 (PCB-1242)	mg/kg	0.042 U	0.042 U	0.041 U	0.044 U	0.2 U	0.19 U	0.36 U	0.042 U	0.045 U	0.039 U	0.039 U	0.39 U	0.78 U	0.078 U
Aroclor-1248 (PCB-1248)	mg/kg	0.014 J	0.039 J	0.0088 J	0.044 U	1.4	1.1	3	0.042	0.018 J	0.21	0.11	4.5	5.9	1.2
Aroclor-1254 (PCB-1254)	mg/kg	0.042 U	0.042 U	0.041 U	0.044 U	0.2 U	0.19 U	0.36 U	0.042 U	0.045 U	0.039 U	0.039 U	0.39 U	0.78 U	0.078 U
Aroclor-1260 (PCB-1260)	mg/kg	0.042 U	0.042 U	0.041 U	0.044 U	0.25	0.26	0.51	0.042 U	0.045 U	0.12	0.056	0.39 U	0.78 U	0.098
Total PCBs	mg/kg	0.014 J	0.039 J	0.0088 J	ND	1.65	1.36	3.51	0.042	0.018 J	0.33	0.166	4.5	5.9	1.298
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	78.7	77.7	80.9	75.5	82.8	87.5	91.3	79.4	73.1	84.9	85.5	85.3	84.7	84.9

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
 AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193AX	B-X143Y193AX	B-X143Y193AX	B-X143Y193AX	B-X143Y193AX	B-X143Y193AX	B-X143Y193AX	B-X143Y193AY	B-X143Y193AY	B-X143Y193AY	B-X143Y193AY	B-X143Y193AY	B-X143Y193AY	B-X143Y193AY	
Sample Identification:	S-122104-JC-928	S-122104-JC-929	S-122104-JC-930	S-122104-JC-931	S-122104-JC-932	S-122104-JC-933	S-122104-JC-903	S-122104-JC-904	S-122104-JC-905	S-122104-JC-906	S-122104-JC-907	S-122104-JC-908	S-122104-JC-909	S-122104-JC-910	
Sample Date:	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	12/21/2004	
Sample Depth:	(6-8) ft	(8-10) ft	(10-12) ft	(12-14) ft	(14-16) ft	(14-16) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(10-12) ft	(12-14) ft	
Sample Type:						Duplicate									
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.19 U	0.19 U	0.081 U	0.043 U	0.042 U	0.042 U	0.039 U	0.077 U	0.04 U	0.077 U	0.38 U	0.77 U	3.6 U	0.21 U
Aroclor-1221 (PCB-1221)	mg/kg	0.19 U	0.19 U	0.081 U	0.043 U	0.042 U	0.042 U	0.039 U	0.077 U	0.04 U	0.077 U	0.38 U	0.77 U	3.6 U	0.21 U
Aroclor-1232 (PCB-1232)	mg/kg	0.19 U	0.19 U	0.081 U	0.043 U	0.042 U	0.042 U	0.039 U	0.077 U	0.04 U	0.077 U	0.38 U	0.77 U	3.6 U	0.21 U
Aroclor-1242 (PCB-1242)	mg/kg	0.19 U	0.19 U	0.081 U	0.043 U	0.042 U	0.042 U	0.039 U	0.077 U	0.04 U	0.077 U	0.38 U	0.77 U	3.6 U	0.21 U
Aroclor-1248 (PCB-1248)	mg/kg	1.3	0.6	0.081 U	0.0063 J	0.0089 J	0.042 U	0.093	0.25	0.55	3.1	6	37	0.56	
Aroclor-1254 (PCB-1254)	mg/kg	0.19 U	0.19 U	0.081 U	0.043 U	0.042 U	0.042 U	0.039 U	0.077 U	0.04 U	0.077 U	0.38 U	0.77 U	3.6 U	0.21 U
Aroclor-1260 (PCB-1260)	mg/kg	0.11 J	0.19 U	0.081 U	0.043 U	0.042 U	0.042 U	0.042	0.12	0.028 J	0.069 J	0.38	0.73 J	6.2	0.15 J
Total PCBs	mg/kg	1.41 J	0.6	ND	0.0063 J	0.0089 J	ND	0.135	0.74	0.278 J	0.619 J	3.48	6.73 J	43.2	0.71 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	85.2	84.8	81.9	77.5	77.7	78.1	84.6	86.1	82.6	86.2	87.0	86.2	91.2	80.4

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193AY	B-X143Y193AZ	B-X143Y193AZ	B-X143Y193AZ	B-X143Y193AZ	B-X143Y193AZ	B-X143Y193AZ	B-X143Y193AZ	B-X143Y193AZ	B-X143Y193B	B-X143Y193B	B-X143Y193B	B-X143Y193BA	B-X143Y193BA	
Sample Identification:	S-122104-JC-911	S-121604-KMV-895	S-121604-KMV-896	S-121604-KMV-897	S-121604-KMV-898	S-121604-KMV-899	S-121604-KMV-900	S-121604-KMV-901	S-121604-KMV-902	S-040704-JC-047	S-040704-JC-048	S-040704-JC-049	S-121604-KMV-893	S-121604-KMV-894	
Sample Date:	12/21/2004	12/16/2004	12/16/2004	12/16/2004	12/16/2004	12/16/2004	12/16/2004	12/16/2004	12/16/2004	4/7/2004	4/7/2004	4/7/2004	12/16/2004	12/16/2004	
Sample Depth:	(14-16) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(4-6) ft	(6-8) ft	(8-10) ft	(10-12) ft	(0-2) ft	(6-8) ft	(27-29.4) ft	(0-0.5) ft	(1-2) ft	
Sample Type:						Duplicate									
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.044 U	0.73 U	0.19 U	0.2 U	0.21 U	0.43 U	0.082 U	0.041 U	0.044 U	1.9 U	0.19 U	0.041 U	0.2 U	0.042 U
Aroclor-1221 (PCB-1221)	mg/kg	0.044 U	0.73 U	0.19 U	0.2 U	0.21 U	0.43 U	0.082 U	0.041 U	0.044 U	1.9 U	0.19 U	0.041 U	0.2 U	0.042 U
Aroclor-1232 (PCB-1232)	mg/kg	0.044 U	0.73 U	0.19 U	0.2 U	0.21 U	0.43 U	0.082 U	0.041 U	0.044 U	1.9 U	0.19 U	0.041 U	0.2 U	0.042 U
Aroclor-1242 (PCB-1242)	mg/kg	0.044 U	0.73 U	0.19 U	0.2 U	0.21 U	0.43 U	0.082 U	0.041 U	0.044 U	1.9 U	0.19 U	0.041 U	0.2 U	0.042 U
Aroclor-1248 (PCB-1248)	mg/kg	0.027 J	4.6	0.75	0.77	0.64	1.6	0.79	0.0081 J	0.013 J	13	1.1	0.012 J	1.9	0.017 J
Aroclor-1254 (PCB-1254)	mg/kg	0.044 U	0.73 U	0.19 U	0.2 U	0.21 U	0.43 U	0.082 U	0.041 U	0.044 U	1.9 U	0.19 U	0.041 U	0.2 U	0.042 U
Aroclor-1260 (PCB-1260)	mg/kg	0.044 U	1.6	0.35	0.36	0.11 J	0.37 J	0.21	0.041 U	0.044 U	1.9 U	0.093 J	0.041 U	1.1	0.042 U
Total PCBs	mg/kg	0.027 J	6.2	1.1	1.13	0.75 J	1.97 J	1	0.0081 J	0.013 J	13	1.193 J	0.012 J	3	0.017 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	0.59 U	0.58 U	0.63 U	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	0.59 U	0.58 U	0.63 U	--	--
Total solids	%	74.7	90.3	84.8	82.8	79.3	76.8	80.7	80.6	75.0	85.3	86.3	79.9	83.4	78.3

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
 AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193BB	B-X143Y193BB	B-X143Y193BC	B-X143Y193BC	B-X143Y193BC	B-X143Y193BC	B-X143Y193BC	B-X143Y193BC	B-X143Y193BC	B-X143Y193BC	B-X143Y193BD	B-X143Y193BD	B-X143Y193BD	B-X143Y193BD	
Sample Identification:	S-122204-JC-934	S-122204-JC-935	S-011905-KMV-895	S-011905-KMV-896	S-011905-KMV-897	S-011905-KMV-898	S-011905-KMV-899	S-011905-KMV-900	S-011905-KMV-901	S-011905-KMV-902	S-011905-KMV-903	S-011905-KMV-904	S-011905-KMV-905	S-011905-KMV-906	
Sample Date:	12/22/2004	12/22/2004	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	
Sample Depth:	(0-0.5) ft	(1-2) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(10-12) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	
Sample Type:															
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	2.1 U	0.82 U	0.045 U	0.04 U	0.039 U	0.038 U	0.042 U	0.045 U	0.042 U	0.047 U	0.04 U	0.039 U	0.04 U	0.043 U
Aroclor-1221 (PCB-1221)	mg/kg	2.1 U	0.82 U	0.045 U	0.04 U	0.039 U	0.038 U	0.042 U	0.045 U	0.042 U	0.047 U	0.04 U	0.039 U	0.04 U	0.043 U
Aroclor-1232 (PCB-1232)	mg/kg	2.1 U	0.82 U	0.045 U	0.04 U	0.039 U	0.038 U	0.042 U	0.045 U	0.042 U	0.047 U	0.04 U	0.039 U	0.04 U	0.043 U
Aroclor-1242 (PCB-1242)	mg/kg	2.1 U	0.82 U	0.045 U	0.04 U	0.039 U	0.038 U	0.042 U	0.045 U	0.042 U	0.047 U	0.04 U	0.039 U	0.04 U	0.043 U
Aroclor-1248 (PCB-1248)	mg/kg	7.9	4.4	0.062 J	0.04 U	0.039 U	0.038 U	0.042 U	0.045 U	0.042 U	0.047 U	0.04 U	0.039 U	0.04 U	0.043 U
Aroclor-1254 (PCB-1254)	mg/kg	2.1 U	0.82 U	0.045 U	0.04 U	0.039 U	0.038 U	0.042 U	0.045 U	0.042 U	0.047 U	0.04 U	0.039 U	0.04 U	0.043 U
Aroclor-1260 (PCB-1260)	mg/kg	1.3 J	0.74 J	0.052 J	0.04 U	0.039 U	0.038 U	0.042 U	0.045 U	0.042 U	0.044 J	0.04 U	0.039 U	0.04 U	0.043 U
Total PCBs	mg/kg	9.2 J	5.14 J	0.114 J	ND	ND	ND	ND	ND	ND	0.144 J	ND	ND	ND	ND
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	80.3	80.6	73.7	82.4	85.6	86.6	78.7	72.7	77.7	70.1	82.8	84.3	82.8	76.6

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193BD	B-X143Y193BD	B-X143Y193BE	B-X143Y193BE	B-X143Y193BE	B-X143Y193BE	B-X143Y193BE	B-X143Y193BE	B-X143Y193BE	B-X143Y193BE	B-X143Y193BE	B-X143Y193BF	B-X143Y193BF	B-X143Y193BF	
Sample Identification:	S-011905-KMV-907	S-011905-KMV-908	S-011905-KMV-918	S-011905-KMV-919	S-011905-KMV-920	S-011905-KMV-921	S-011905-KMV-922	S-011905-KMV-923	S-011905-KMV-924	S-011905-KMV-925	S-011905-KMV-926	S-011905-KMV-909	S-011905-KMV-910	S-011905-KMV-911	
Sample Date:	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	
Sample Depth:	(8-10) ft	(10-12) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(10-12) ft	(12-14) ft	(14-16) ft	(0-0.5) ft	(0-0.5) ft	(1-2) ft	
Sample Type:													Duplicate		
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.042 U	0.044 U	2.4 U	0.039 U	0.042 U	0.043 U	0.046 U	0.042 U	0.041 U	0.046 U	0.043 U	4 U	4 U	3.8 U
Aroclor-1221 (PCB-1221)	mg/kg	0.042 U	0.044 U	2.4 U	0.039 U	0.042 U	0.043 U	0.046 U	0.042 U	0.041 U	0.046 U	0.043 U	4 U	4 U	3.8 U
Aroclor-1232 (PCB-1232)	mg/kg	0.042 U	0.044 U	2.4 U	0.039 U	0.042 U	0.043 U	0.046 U	0.042 U	0.041 U	0.046 U	0.043 U	4 U	4 U	3.8 U
Aroclor-1242 (PCB-1242)	mg/kg	0.042 U	0.044 U	2.4 U	0.039 U	0.042 U	0.043 U	0.046 U	0.042 U	0.041 U	0.046 U	0.043 U	4 U	4 U	3.8 U
Aroclor-1248 (PCB-1248)	mg/kg	0.042 U	0.044 U	15	0.16	0.042 U	0.043 U	0.046 U	0.0077 J	0.041 U	0.046 U	0.043 U	20 J	24 J	15 J
Aroclor-1254 (PCB-1254)	mg/kg	0.042 U	0.044 U	2.4 U	0.039 U	0.042 U	0.043 U	0.046 U	0.042 U	0.041 U	0.046 U	0.043 U	4 U	4 U	3.8 U
Aroclor-1260 (PCB-1260)	mg/kg	0.042 U	0.044 U	2.7	0.041	0.042 U	0.043 U	0.046 U	0.042 U	0.041 U	0.046 U	0.043 U	3.7 J	3.6 J	1.4 J
Total PCBs	mg/kg	ND	ND	17.7	0.201	ND	ND	ND	0.0077 J	ND	ND	ND	23.7 J	27.6 J	16.4 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	79.1	74.4	68.5	83.7	79.0	76.6	72.5	77.7	80.6	72.5	75.9	82.5	83.0	86.3

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193BF	B-X143Y193BF	B-X143Y193BF	B-X143Y193BF	B-X143Y193BF	B-X143Y193BF	B-X143Y193BF	B-X143Y193BG	B-X143Y193BG	B-X143Y193BG	B-X143Y193BG	B-X143Y193BG	B-X143Y193BG	B-X143Y193BG	
Sample Identification:	S-011905-KMV-912	S-011905-KMV-913	S-011905-KMV-914	S-011905-KMV-915	S-011905-KMV-916	S-011905-KMV-917	S-011905-KMV-927	S-011905-KMV-928	S-011905-KMV-929	S-011905-KMV-930	S-011905-KMV-931	S-011905-KMV-932	S-011905-KMV-933	S-011905-KMV-934	
Sample Date:	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	
Sample Depth:	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(10-12) ft	(14-16) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(6-8) ft	(8-10) ft	(10-12) ft	
Sample Type:												Duplicate			
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.039 U	0.044 U	0.044 U	0.042 U	0.04 U	0.042 U	4.1 U	0.78 U	0.044 U	0.045 U	0.044 U	0.045 U	0.044 U	0.044 U
Aroclor-1221 (PCB-1221)	mg/kg	0.039 U	0.044 U	0.044 U	0.042 U	0.04 U	0.042 U	4.1 U	0.78 U	0.044 U	0.045 U	0.044 U	0.045 U	0.044 U	0.044 U
Aroclor-1232 (PCB-1232)	mg/kg	0.039 U	0.044 U	0.044 U	0.042 U	0.04 U	0.042 U	4.1 U	0.78 U	0.044 U	0.045 U	0.044 U	0.045 U	0.044 U	0.044 U
Aroclor-1242 (PCB-1242)	mg/kg	0.039 U	0.044 U	0.044 U	0.042 U	0.04 U	0.042 U	4.1 U	0.78 U	0.044 U	0.045 U	0.044 U	0.045 U	0.044 U	0.044 U
Aroclor-1248 (PCB-1248)	mg/kg	0.039 U	0.044 U	0.044 U	0.042 U	0.04 U	0.042 U	17	4.9	0.01 J	0.045 U	0.044 U	0.045 U	0.044 U	0.044 U
Aroclor-1254 (PCB-1254)	mg/kg	0.039 U	0.044 U	0.044 U	0.042 U	0.04 U	0.042 U	4.1 U	0.78 U	0.044 U	0.045 U	0.044 U	0.045 U	0.044 U	0.044 U
Aroclor-1260 (PCB-1260)	mg/kg	0.039 U	0.044 U	0.044 U	0.042 U	0.04 U	0.042 U	2.6 J	0.55 J	0.044 U	0.045 U	0.044 U	0.045 U	0.044 U	0.044 U
Total PCBs	mg/kg	ND	ND	ND	ND	ND	ND	19.6 J	5.45 J	0.01 J	ND	ND	ND	ND	ND
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	83.7	74.2	75.6	78.6	82.5	78.7	80.9	85.1	74.3	73.5	74.5	73.2	81.6	75.1

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
 AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193BG	B-X143Y193BG	B-X143Y193BG	B-X143Y193BG	B-X143Y193BG	B-X143Y193BH	B-X143Y193BH	B-X143Y193BH	B-X143Y193BH	B-X143Y193BH	B-X143Y193BH	B-X143Y193BH	B-X143Y193BH	B-X143Y193BH	
Sample Identification:	S-011905-KMV-935	S-011905-KMV-936	S-011905-KMV-937	S-011905-KMV-938	S-011905-KMV-939	S-011905-KMV-940	S-011905-KMV-941	S-011905-KMV-942	S-011905-KMV-943	S-011905-KMV-944	S-011905-KMV-945	S-011905-KMV-946	S-011905-KMV-947	S-011905-KMV-948	
Sample Date:	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005	
Sample Depth:	(12-14) ft	(14-16) ft	(16-18) ft	(18-20) ft	(18-20) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(10-12) ft	(12-14) ft	(12-14) ft	
Sample Type:					Duplicate									Duplicate	
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.043 U	0.041 U	0.04 U	0.041 U	0.041 U	0.19 U	2 U	3.8 U	0.038 U	0.043 U	0.046 U	0.041 U	0.043 U	0.043 U
Aroclor-1221 (PCB-1221)	mg/kg	0.043 U	0.041 U	0.04 U	0.041 U	0.041 U	0.19 U	2 U	3.8 U	0.038 U	0.043 U	0.046 U	0.041 U	0.043 U	0.043 U
Aroclor-1232 (PCB-1232)	mg/kg	0.043 U	0.041 U	0.04 U	0.041 U	0.041 U	0.19 U	2 U	3.8 U	0.038 U	0.043 U	0.046 U	0.041 U	0.043 U	0.043 U
Aroclor-1242 (PCB-1242)	mg/kg	0.043 U	0.041 U	0.04 U	0.041 U	0.041 U	0.19 U	2 U	3.8 U	0.038 U	0.043 U	0.046 U	0.041 U	0.043 U	0.043 U
Aroclor-1248 (PCB-1248)	mg/kg	0.043 U	0.041 U	0.04 U	0.041 U	0.041 U	0.61	11	17	0.03 J	0.043 U	0.046 U	0.041 U	0.043 U	0.043 U
Aroclor-1254 (PCB-1254)	mg/kg	0.043 U	0.041 U	0.04 U	0.041 U	0.041 U	0.19 U	2 U	3.8 U	0.038 U	0.043 U	0.046 U	0.041 U	0.043 U	0.043 U
Aroclor-1260 (PCB-1260)	mg/kg	0.043 U	0.041 U	0.04 U	0.041 U	0.041 U	0.097 J	1.3 J	3.4 J	0.038 U	0.043 U	0.046 U	0.041 U	0.043 U	0.043 U
Total PCBs	mg/kg	ND	ND	ND	ND	ND	0.707 J	12.3 J	20.4 J	0.03 J	ND	ND	ND	ND	ND
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	76.8	80.2	81.9	81.3	80.9	84.9	81.1	87.1	87.1	75.9	71.2	80.4	75.9	76.1

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193BH	B-X143Y193BH	B-X143Y193BH	B-X143Y193BI	B-X143Y193BI	B-X143Y193BI	B-X143Y193BI	B-X143Y193BI	B-X143Y193BI	B-X143Y193BI	B-X143Y193BI	B-X143Y193BI	B-X143Y193BI	B-X143Y193BI	
Sample Identification:	S-011905-KMV-949	S-011905-KMV-950	S-011905-KMV-951	S-012005-KMV-952	S-012005-KMV-953	S-012005-KMV-954	S-012005-KMV-955	S-012005-KMV-956	S-012005-KMV-957	S-012005-KMV-958	S-012005-KMV-959	S-012005-KMV-960	S-012005-KMV-961	S-012005-KMV-962	
Sample Date:	1/19/2005	1/19/2005	1/19/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	
Sample Depth:	(14-16) ft	(16-18) ft	(18-20) ft	(0-0.5) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(10-12) ft	(12-14) ft	(14-16) ft	(14-16) ft	
Sample Type:				Duplicate	Duplicate									Duplicate	
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.043 U	0.043 U	0.042 U	0.39 U	0.38 U	2 U	20 U	0.43 U	0.041 U	0.041 U	0.045 U	0.043 U	0.041 U	0.041 U
Aroclor-1221 (PCB-1221)	mg/kg	0.043 U	0.043 U	0.042 U	0.39 U	0.38 U	2 U	20 U	0.43 U	0.041 U	0.041 U	0.045 U	0.043 U	0.041 U	0.041 U
Aroclor-1232 (PCB-1232)	mg/kg	0.043 U	0.043 U	0.042 U	0.39 U	0.38 U	2 U	20 U	0.43 U	0.041 U	0.041 U	0.045 U	0.043 U	0.041 U	0.041 U
Aroclor-1242 (PCB-1242)	mg/kg	0.043 U	0.043 U	0.042 U	0.39 U	0.38 U	2 U	20 U	0.43 U	0.041 U	0.041 U	0.045 U	0.043 U	0.041 U	0.041 U
Aroclor-1248 (PCB-1248)	mg/kg	0.043 U	0.043 U	0.042 U	1.7	2.2	8.1	52	2.6	0.052	0.013 J	0.0097 J	0.02 J	0.0079 J	0.018 J
Aroclor-1254 (PCB-1254)	mg/kg	0.043 U	0.043 U	0.042 U	0.39 U	0.38 U	2 U	20 U	0.43 U	0.041 U	0.041 U	0.045 U	0.043 U	0.041 U	0.041 U
Aroclor-1260 (PCB-1260)	mg/kg	0.043 U	0.043 U	0.042 U	0.33 J	0.31 J	2.3	12 J	0.16 J	0.013 J	0.041 U	0.045 U	0.043 U	0.041 U	0.041 U
Total PCBs	mg/kg	ND	ND	ND	2.03 J	2.51 J	10.4	64 J	2.76 J	0.065 J	0.013 J	0.0097 J	0.02 J	0.0079 J	0.018 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	76.9	76.7	79.1	84.0	88.0	82.5	84.4	77.0	80.1	80.7	73.9	76.5	79.7	79.7

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193BJ	B-X143Y193BJ	B-X143Y193BJ	B-X143Y193BJ	B-X143Y193BJ	B-X143Y193BJ	B-X143Y193BJ	B-X143Y193BK	B-X143Y193BK	B-X143Y193BK	B-X143Y193BK	B-X143Y193BK	B-X143Y193BK	B-X143Y193BK	
Sample Identification:	S-012005-KMV-963	S-012005-KMV-964	S-012005-KMV-965	S-012005-KMV-966	S-012005-KMV-967	S-012005-KMV-968	S-012005-KMV-969	S-012005-KMV-970	S-012005-KMV-971	S-012005-KMV-972	S-012005-KMV-973	S-012005-KMV-974	S-012005-KMV-975	S-012005-KMV-976	
Sample Date:	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	
Sample Depth:	(0-0.5) ft	(1-2) ft	(2-4) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(6-8) ft	(8-10) ft	
Sample Type:				Duplicate									Duplicate		
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	39 U	8.2 U	0.43 U	0.43 U	0.042 U	0.044 U	0.042 U	8.1 U	8.1 U	0.086 U	0.04 U	0.042 U	0.042 U	0.04 U
Aroclor-1221 (PCB-1221)	mg/kg	39 U	8.2 U	0.43 U	0.43 U	0.042 U	0.044 U	0.042 U	8.1 U	8.1 U	0.086 U	0.04 U	0.042 U	0.042 U	0.04 U
Aroclor-1232 (PCB-1232)	mg/kg	39 U	8.2 U	0.43 U	0.43 U	0.042 U	0.044 U	0.042 U	8.1 U	8.1 U	0.086 U	0.04 U	0.042 U	0.042 U	0.04 U
Aroclor-1242 (PCB-1242)	mg/kg	39 U	8.2 U	0.43 U	0.43 U	0.042 U	0.044 U	0.042 U	8.1 U	8.1 U	0.086 U	0.04 U	0.042 U	0.042 U	0.04 U
Aroclor-1248 (PCB-1248)	mg/kg	150	35	2	2.1	0.1	0.036 J	0.019 J	35	25	0.52	0.01 J	0.042 U	0.042 U	0.04 U
Aroclor-1254 (PCB-1254)	mg/kg	39 U	8.2 U	0.43 U	0.43 U	0.042 U	0.044 U	0.042 U	8.1 U	8.1 U	0.086 U	0.04 U	0.042 U	0.042 U	0.04 U
Aroclor-1260 (PCB-1260)	mg/kg	22 J	5.1 J	0.38 J	0.44	0.018 J	0.044 U	0.042 U	5.2 J	4.3 J	0.1	0.04 U	0.042 U	0.042 U	0.04 U
Total PCBs	mg/kg	172 J	40.1 J	2.38 J	2.54	0.118 J	0.036 J	0.019 J	40.2 J	29.3 J	0.62	0.01 J	ND	ND	ND
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	83.9	80.1	76.6	76.4	78.2	75.7	78.3	81.8	81.7	76.6	83.5	78.7	78.0	81.8

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea
Sample Location:	B-X143Y193BK	B-X143Y193BL	B-X143Y193BL	B-X143Y193BL	B-X143Y193BL	B-X143Y193BL	B-X143Y193BL	B-X143Y193BL	B-X143Y193BM	B-X143Y193BM	B-X143Y193BM	B-X143Y193BM	B-X143Y193BM	B-X143Y193BM
Sample Identification:	S-012005-KMV-977	S-012005-KMV-978	S-012005-KMV-979	S-012005-KMV-980	S-012005-KMV-981	S-012005-KMV-982	S-012005-KMV-983	S-012405-KMV-984	S-012405-KMV-985	S-012405-KMV-986	S-012405-KMV-987	S-012405-KMV-988	S-012405-KMV-989	S-012405-KMV-990
Sample Date:	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005
Sample Depth:	(10-12) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(6-8) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(6-8) ft	(8-10) ft
Sample Type:							Duplicate						Duplicate	
	Units													
PCBs														
Aroclor-1016 (PCB-1016)	mg/kg	0.041 U	2 U	0.04 U	0.042 U	0.04 U	0.044 U	0.045 U	0.41 U	0.043 U	0.043 U	0.044 U	0.042 U	0.043 U
Aroclor-1221 (PCB-1221)	mg/kg	0.041 U	2 U	0.04 U	0.042 U	0.04 U	0.044 U	0.045 U	0.41 U	0.043 U	0.043 U	0.044 U	0.042 U	0.043 U
Aroclor-1232 (PCB-1232)	mg/kg	0.041 U	2 U	0.04 U	0.042 U	0.04 U	0.044 U	0.045 U	0.41 U	0.043 U	0.043 U	0.044 U	0.042 U	0.043 U
Aroclor-1242 (PCB-1242)	mg/kg	0.041 U	2 U	0.04 U	0.042 U	0.04 U	0.044 U	0.045 U	0.41 U	0.043 U	0.043 U	0.044 U	0.042 U	0.043 U
Aroclor-1248 (PCB-1248)	mg/kg	0.041 U	15	0.1	0.042 U	0.0066 J	0.0096 J	0.013 J	2.1	0.24	0.081	0.044 U	0.042 U	0.043 U
Aroclor-1254 (PCB-1254)	mg/kg	0.041 U	2 U	0.04 U	0.042 U	0.04 U	0.044 U	0.045 U	0.41 U	0.043 U	0.043 U	0.044 U	0.042 U	0.043 U
Aroclor-1260 (PCB-1260)	mg/kg	0.041 U	3	0.026 J	0.042 U	0.04 U	0.044 U	0.045 U	0.13 J	0.043 U	0.043 U	0.044 U	0.042 U	0.043 U
Total PCBs	mg/kg	ND	18	0.126 J	ND	0.0066 J	0.0096 J	0.013 J	2.23 J	0.24	0.081	ND	ND	ND
General Chemistry														
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	79.5	82.9	82.3	78.2	82.7	74.5	73.3	81.1	77.0	76.7	75.5	77.9	78.7

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
 AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Area:	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	
Sample Location:	B-X143Y193BM	B-X143Y193BN	B-X143Y193BN	B-X143Y193BN	B-X143Y193BN	B-X143Y193BN	B-X143Y193BN	B-X143Y193BO	B-X143Y193BO	B-X143Y193BO	B-X143Y193BO	B-X143Y193BO	B-X143Y193BO	B-X143Y193BP	
Sample Identification:	S-012405-KMV-991	S-012405-KMV-992	S-012405-KMV-993	S-012405-KMV-994	S-012405-KMV-995	S-012405-KMV-996	S-012405-KMV-997	S-012405-KMV-998	S-012405-KMV-999	S-012405-KMV-1000	S-012405-KMV-1001	S-012405-KMV-1002	S-012405-KMV-1003	S-012405-KMV-1004	
Sample Date:	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005	
Sample Depth:	(10-12) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(0-0.5) ft	
Sample Type:															
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.041 U	0.089 U	0.04 U	0.045 U	0.044 U	0.043 U	0.042 U	2.1 U	0.041 U	0.043 U	0.044 U	0.039 U	0.039 U	0.38 U
Aroclor-1221 (PCB-1221)	mg/kg	0.041 U	0.089 U	0.04 U	0.045 U	0.044 U	0.043 U	0.042 U	2.1 U	0.041 U	0.043 U	0.044 U	0.039 U	0.039 U	0.38 U
Aroclor-1232 (PCB-1232)	mg/kg	0.041 U	0.089 U	0.04 U	0.045 U	0.044 U	0.043 U	0.042 U	2.1 U	0.041 U	0.043 U	0.044 U	0.039 U	0.039 U	0.38 U
Aroclor-1242 (PCB-1242)	mg/kg	0.041 U	0.089 U	0.04 U	0.045 U	0.044 U	0.043 U	0.042 U	2.1 U	0.041 U	0.043 U	0.044 U	0.039 U	0.039 U	0.38 U
Aroclor-1248 (PCB-1248)	mg/kg	0.041 U	0.53	0.04 U	0.012 J	0.044 U	0.043 U	0.042 U	14	0.062	0.043 U	0.044 U	0.039 U	0.039 U	2.7
Aroclor-1254 (PCB-1254)	mg/kg	0.041 U	0.089 U	0.04 U	0.045 U	0.044 U	0.043 U	0.042 U	2.1 U	0.041 U	0.043 U	0.044 U	0.039 U	0.039 U	0.38 U
Aroclor-1260 (PCB-1260)	mg/kg	0.041 U	0.092	0.04 U	0.045 U	0.044 U	0.043 U	0.042 U	1.5 J	0.041 U	0.043 U	0.044 U	0.039 U	0.039 U	0.38 U
Total PCBs	mg/kg	ND	0.622	ND	0.012 J	ND	ND	ND	15.5 J	0.062	ND	ND	ND	ND	3.09
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	81.3	74.5	81.5	73.9	75.8	77.1	78.2	78.4	80.3	76.2	75.6	85.4	84.5	85.8

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
 AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193BP	B-X143Y193BP	B-X143Y193BP	B-X143Y193BP	B-X143Y193BP	B-X143Y193BP	B-X143Y193BP	B-X143Y193BQ	B-X143Y193BQ	B-X143Y193BQ	B-X143Y193BQ	B-X143Y193BQ	B-X143Y193BQ	B-X143Y193BQ	
Sample Identification:	S-012405-KMV-1005	S-012405-KMV-1006	S-012405-KMV-1007	S-012405-KMV-1008	S-012405-KMV-1009	S-012405-KMV-1010	S-012505-KMV-1011	S-012505-KMV-1012	S-012505-KMV-1013	S-012505-KMV-1014	S-012505-KMV-1015	S-012505-KMV-1016	S-012505-KMV-1017	S-012505-KMV-1018	
Sample Date:	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/24/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	
Sample Depth:	(1-2) ft	(2-4) ft	(4-6) ft	(4-6) ft	(6-8) ft	(8-10) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(8-10) ft	(10-12) ft	
Sample Type:				Duplicate									Duplicate		
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.043 UJ	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U	0.39 U	0.2 U	0.2 U	3.9 U	0.2 U	0.043 UJ	0.041 UJ	0.042 UJ
Aroclor-1221 (PCB-1221)	mg/kg	0.043 UJ	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U	0.39 U	0.2 U	0.2 U	3.9 U	0.2 U	0.043 UJ	0.041 UJ	0.042 UJ
Aroclor-1232 (PCB-1232)	mg/kg	0.043 UJ	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U	0.39 U	0.2 U	0.2 U	3.9 U	0.2 U	0.043 UJ	0.041 UJ	0.042 UJ
Aroclor-1242 (PCB-1242)	mg/kg	0.043 UJ	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U	0.39 U	0.2 U	0.2 U	3.9 U	0.2 U	0.043 UJ	0.041 UJ	0.042 UJ
Aroclor-1248 (PCB-1248)	mg/kg	0.4 J	0.086	0.043 U	0.043 U	0.041 U	0.042 U	3.8	1.2	0.6	24	2	0.043 UJ	0.041 UJ	0.042 UJ
Aroclor-1254 (PCB-1254)	mg/kg	0.043 UJ	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U	0.39 U	0.2 U	0.2 U	3.9 U	0.2 U	0.043 UJ	0.041 UJ	0.042 UJ
Aroclor-1260 (PCB-1260)	mg/kg	0.029 J	0.042 U	0.043 U	0.043 U	0.041 U	0.042 U	0.44	0.19 J	0.11 J	1.5 J	0.27	0.043 UJ	0.041 UJ	0.042 UJ
Total PCBs	mg/kg	0.429 J	0.086	ND	ND	ND	ND	4.24	1.39 J	0.71 J	25.5 J	2.27	ND	ND	ND
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	76.2	77.9	76.6	76.0	80.0	78.0	84.4	83.6	84.4	83.7	83.0	77.4	81.3	78.9

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea
Sample Location:	B-X143Y193BQ	B-X143Y193BQ	B-X143Y193BR	B-X143Y193BR	B-X143Y193BR	B-X143Y193BR	B-X143Y193BR	B-X143Y193BR	B-X143Y193BR	B-X143Y193BS	B-X143Y193BS	B-X143Y193BS	B-X143Y193BS	B-X143Y193BS
Sample Identification:	S-012505-KMV-1019	S-012505-KMV-1020	S-012505-KMV-1021	S-012505-KMV-1022	S-012505-KMV-1023	S-012505-KMV-1024	S-012505-KMV-1025	S-012505-KMV-1026	S-012505-KMV-1027	S-012505-KMV-1028	S-012505-KMV-1029	S-012505-KMV-1030	S-012505-KMV-1031	S-012505-KMV-1032
Sample Date:	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005
Sample Depth:	(12-14) ft	(14-16) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(10-12) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(4-6) ft	(6-8) ft
Sample Type:													Duplicate	
	Units													
PCBs														
Aroclor-1016 (PCB-1016)	mg/kg	0.042 UJ	0.041 UJ	0.044 UJ	0.04 UJ	0.19 U	0.39 U	0.042 U	0.045 UJ	0.041 U	0.039 U	0.041 U	0.041 U	0.042 U
Aroclor-1221 (PCB-1221)	mg/kg	0.042 UJ	0.041 UJ	0.044 UJ	0.04 UJ	0.19 U	0.39 U	0.042 U	0.045 UJ	0.041 U	0.039 U	0.041 U	0.041 U	0.042 U
Aroclor-1232 (PCB-1232)	mg/kg	0.042 UJ	0.041 UJ	0.044 UJ	0.04 UJ	0.19 U	0.39 U	0.042 U	0.045 UJ	0.041 U	0.039 U	0.041 U	0.041 U	0.042 U
Aroclor-1242 (PCB-1242)	mg/kg	0.042 UJ	0.041 UJ	0.044 UJ	0.04 UJ	0.19 U	0.39 U	0.042 U	0.045 UJ	0.041 U	0.039 U	0.041 U	0.041 U	0.042 U
Aroclor-1248 (PCB-1248)	mg/kg	0.042 UJ	0.041 UJ	0.044 UJ	0.04 UJ	1	2.4	0.1	0.045 UJ	0.21	0.059	0.041 U	0.041 U	0.042 U
Aroclor-1254 (PCB-1254)	mg/kg	0.042 UJ	0.041 UJ	0.044 UJ	0.04 UJ	0.19 U	0.39 U	0.042 U	0.045 UJ	0.041 U	0.039 U	0.041 U	0.041 U	0.042 U
Aroclor-1260 (PCB-1260)	mg/kg	0.042 UJ	0.041 UJ	0.044 UJ	0.04 UJ	0.29	0.43	0.016 J	0.045 UJ	0.06	0.024 J	0.041 U	0.041 U	0.042 U
Total PCBs	mg/kg	ND	ND	ND	ND	1.29	2.83	0.116 J	ND	0.27	0.083 J	0.015 J	ND	ND
General Chemistry														
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	77.7	80.2	74.9	83.1	84.7	84.4	78.9	73.4	80.4	84.2	80.1	81.3	81.3

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193BS	B-X143Y193BS	B-X143Y193BT	B-X143Y193BT	B-X143Y193BT	B-X143Y193BT	B-X143Y193BT	B-X143Y193BT	B-X143Y193BT	B-X143Y193BT	B-X143Y193BT	B-X143Y193BT	B-X143Y193BU	B-X143Y193BU	
Sample Identification:	S-012505-KMV-1033	S-012505-KMV-1034	S-012505-KMV-1035	S-012505-KMV-1036	S-012505-KMV-1037	S-012505-KMV-1038	S-012505-KMV-1039	S-012505-KMV-1040	S-012505-KMV-1041	S-012505-KMV-1042	S-012505-KMV-1043	S-012505-KMV-1044	S-012505-KMV-1045	S-012505-KMV-1046	
Sample Date:	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	
Sample Depth:	(8-10) ft	(10-12) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(8-10) ft	(8-10) ft	(10-12) ft	(12-14) ft	(14-16) ft	(0-0.5) ft	
Sample Type:									Duplicate						
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.04 U	0.042 U	0.18 U	0.04 U	0.042 U	0.043 U	0.042 U	0.04 U	0.039 U	0.039 U	0.045 U	0.042 U	0.041 UJ	0.043 U
Aroclor-1221 (PCB-1221)	mg/kg	0.04 U	0.042 U	0.18 U	0.04 U	0.042 U	0.043 U	0.042 U	0.04 U	0.039 U	0.039 U	0.045 U	0.042 U	0.041 UJ	0.043 U
Aroclor-1232 (PCB-1232)	mg/kg	0.04 U	0.042 U	0.18 U	0.04 U	0.042 U	0.043 U	0.042 U	0.04 U	0.039 U	0.039 U	0.045 U	0.042 U	0.041 UJ	0.043 U
Aroclor-1242 (PCB-1242)	mg/kg	0.04 U	0.042 U	0.18 U	0.04 U	0.042 U	0.043 U	0.042 U	0.04 U	0.039 U	0.039 U	0.045 U	0.042 U	0.041 UJ	0.043 U
Aroclor-1248 (PCB-1248)	mg/kg	0.04 U	0.042 U	0.8	0.014 J	0.014 J	0.043 U	0.042 U	0.04 U	0.039 U	0.039 U	0.045 U	0.042 U	0.025 J	0.043 U
Aroclor-1254 (PCB-1254)	mg/kg	0.04 U	0.042 U	0.18 U	0.04 U	0.042 U	0.043 U	0.042 U	0.04 U	0.039 U	0.039 U	0.045 U	0.042 U	0.041 UJ	0.043 U
Aroclor-1260 (PCB-1260)	mg/kg	0.04 U	0.042 U	0.09 J	0.04 U	0.042 U	0.043 U	0.042 U	0.04 U	0.039 U	0.039 U	0.045 U	0.042 U	0.041 UJ	0.043 U
Total PCBs	mg/kg	ND	ND	0.89 J	0.014 J	0.014 J	ND	ND	ND	ND	ND	ND	ND	0.025 J	ND
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	82.4	77.7	90.4	82.5	77.9	77.1	78.5	82.4	85.4	84.1	73.7	78.1	81.3	76.3

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
 AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193BU	B-X143Y193BU	B-X143Y193BU	B-X143Y193BU	B-X143Y193BU	B-X143Y193BU	B-X143Y193BU	B-X143Y193BU	B-X143Y193BV	B-X143Y193BV	B-X143Y193BV	B-X143Y193BV	B-X143Y193BV	B-X143Y193BV	
Sample Identification:	S-012505-KMV-1047	S-012505-KMV-1048	S-012505-KMV-1049	S-012505-KMV-1050	S-012505-KMV-1051	S-012505-KMV-1052	S-012505-KMV-1053	S-012505-KMV-1054	S-012505-KMV-1055	S-012505-KMV-1056	S-012505-KMV-1057	S-012505-KMV-1058	S-012505-KMV-1059	S-012505-KMV-1060	
Sample Date:	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	1/25/2005	
Sample Depth:	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(10-12) ft	(12-14) ft	(14-16) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(10-12) ft	
Sample Type:															
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.044 U	0.083 U	0.035 U	0.043 U	0.046 U	0.043 U	0.045 U	0.35 U	0.039 U	0.042 U	0.042 U	0.042 U	0.038 U	0.045 U
Aroclor-1221 (PCB-1221)	mg/kg	0.044 U	0.083 U	0.035 U	0.043 U	0.046 U	0.043 U	0.045 U	0.35 U	0.039 U	0.042 U	0.042 U	0.042 U	0.038 U	0.045 U
Aroclor-1232 (PCB-1232)	mg/kg	0.044 U	0.083 U	0.035 U	0.043 U	0.046 U	0.043 U	0.045 U	0.35 U	0.039 U	0.042 U	0.042 U	0.042 U	0.038 U	0.045 U
Aroclor-1242 (PCB-1242)	mg/kg	0.044 U	0.083 U	0.035 U	0.043 U	0.046 U	0.043 U	0.045 U	0.35 U	0.039 U	0.042 U	0.042 U	0.042 U	0.038 U	0.045 U
Aroclor-1248 (PCB-1248)	mg/kg	0.044 U	0.52	0.035 U	0.018 J	0.046 U	0.043 U	0.0068 J	1.8	0.011 J	0.0069 J	0.042 U	0.042 U	0.038 U	0.0082 J
Aroclor-1254 (PCB-1254)	mg/kg	0.044 U	0.083 U	0.035 U	0.043 U	0.046 U	0.043 U	0.045 U	0.35 U	0.039 U	0.042 U	0.042 U	0.042 U	0.038 U	0.045 U
Aroclor-1260 (PCB-1260)	mg/kg	0.044 U	0.024 J	0.035 U	0.043 U	0.046 U	0.043 U	0.045 U	0.35 U	0.039 U	0.042 U	0.042 U	0.042 U	0.038 U	0.045 U
Total PCBs	mg/kg	ND	0.544 J	ND	0.018 J	ND	ND	0.0068 J	1.8	0.011 J	0.0069 J	ND	ND	ND	0.0082 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	75.1	79.3	93.7	77.4	72.4	76.4	72.9	94.2	84.8	79.4	78.9	77.7	86.7	73.7

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
 AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193BV	B-X143Y193BW	B-X143Y193BW	B-X143Y193BW	B-X143Y193BW	B-X143Y193BW	B-X143Y193BX	B-X143Y193BX	B-X143Y193BX	B-X143Y193BX	B-X143Y193BX	B-X143Y193BY	B-X143Y193BY	B-X143Y193BY	
Sample Identification:	S-012505-KMV-1061	S-020906-JC-1116	S-020906-JC-1117	S-020906-JC-1118	S-020906-JC-1119	S-020906-JC-1107	S-020906-JC-1108	S-020906-JC-1109	S-020906-JC-1110	S-020906-JC-1111	S-021006-JC-1125	S-021006-JC-1126	S-021006-JC-1127	S-021006-JC-1128	
Sample Date:	1/25/2005	2/9/2006	2/9/2006	2/9/2006	2/9/2006	2/9/2006	2/9/2006	2/9/2006	2/9/2006	2/9/2006	2/10/2006	2/10/2006	2/10/2006	2/10/2006	
Sample Depth:	(10-12) ft	(0-2) ft	(14-16) ft	(16-18) ft	(20-22) ft	(0-2) ft	(14-16) ft	(16-18) ft	(20-22) ft	(20-22) ft	(0-2) ft	(14-16) ft	(16-18) ft	(20-22) ft	
Sample Type:	Duplicate									Duplicate					
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.044 U	--	0.045 U	0.045 U	0.044 U	--	98 U	44 U	0.086 U	0.045 U	--	870 U	0.046 U	0.044 U
Aroclor-1221 (PCB-1221)	mg/kg	0.044 U	--	0.045 U	0.045 U	0.044 U	--	98 U	44 U	0.086 U	0.045 U	--	870 U	0.046 U	0.044 U
Aroclor-1232 (PCB-1232)	mg/kg	0.044 U	--	0.045 U	0.045 U	0.044 U	--	98 U	44 U	0.086 U	0.045 U	--	870 U	0.046 U	0.044 U
Aroclor-1242 (PCB-1242)	mg/kg	0.044 U	--	0.045 U	0.045 U	0.044 U	--	98 U	44 U	0.086 U	0.045 U	--	870 U	0.1	0.044 U
Aroclor-1248 (PCB-1248)	mg/kg	0.044 U	--	0.2	0.045 U	0.096	--	1100	370	0.34 J	0.19 J	--	10000	0.046 U	0.029 J
Aroclor-1254 (PCB-1254)	mg/kg	0.044 U	--	0.045 U	0.045 U	0.044 U	--	98 U	44 U	0.086 U	0.045 U	--	870 U	0.046 U	0.044 U
Aroclor-1260 (PCB-1260)	mg/kg	0.044 U	--	0.021 J	0.045 U	0.044 U	--	130	48	0.044 J	0.021 J	--	1200	0.046 U	0.044 U
Total PCBs	mg/kg	ND	--	0.221 J	ND	0.096	--	1230	418	0.384 J	0.211 J	--	11200	0.1	0.029 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	75.3	87.8	73.9	73.0	74.3	81.4	67.1	74.4	76.4	73.8	83.4	75.5	71.6	74.8

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193BZ	B-X143Y193BZ	B-X143Y193BZ	B-X143Y193BZ	B-X143Y193CA	B-X143Y193CA	B-X143Y193CA	B-X143Y193CA	B-X143Y193CA	B-X143Y193CA	B-X143Y193CB	B-X143Y193CB	B-X143Y193CB	B-X143Y193CB	
Sample Identification:	S-020906-JC-1112	S-020906-JC-1113	S-020906-JC-1114	S-020906-JC-1115	S-021006-JC-1120	S-021006-JC-1121	S-021006-JC-1122	S-021006-JC-1123	S-021006-JC-1124	S-022206-JL-1132	S-022206-JL-1133	S-022206-JL-1134	S-022206-JL-1135	S-022206-JL-1136	
Sample Date:	2/9/2006	2/9/2006	2/9/2006	2/9/2006	2/10/2006	2/10/2006	2/10/2006	2/10/2006	2/10/2006	2/10/2006	2/22/2006	2/22/2006	2/22/2006	2/22/2006	
Sample Depth:	(0-2) ft	(14-16) ft	(16-18) ft	(20-22) ft	(0-2) ft	(14-16) ft	(14-16) ft	(16-18) ft	(20-22) ft	(0-2) ft	(14-16) ft	(14-16) ft	(16-18) ft	(18-20) ft	
Sample Type:							Duplicate					Duplicate			
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	--	0.043 U	0.043 UJ	0.04 U	--	0.037 U	1700 U	90 U	84 U	--	0.045 U	0.043 U	0.042 U	0.04 U
Aroclor-1221 (PCB-1221)	mg/kg	--	0.043 U	0.043 UJ	0.04 U	--	0.037 U	1700 U	90 U	84 U	--	0.045 U	0.043 U	0.042 U	0.04 U
Aroclor-1232 (PCB-1232)	mg/kg	--	0.043 U	0.043 UJ	0.04 U	--	0.037 U	1700 U	90 U	84 U	--	0.045 U	0.043 U	0.042 U	0.04 U
Aroclor-1242 (PCB-1242)	mg/kg	--	0.043 U	0.043 UJ	0.04 U	--	0.037 U	1700 U	90 U	84 U	--	0.045 U	0.043 U	0.077	0.04 U
Aroclor-1248 (PCB-1248)	mg/kg	--	0.16	0.043 UJ	0.04 U	--	0.044 J	20000 J	940	530	--	0.039 J	0.021 J	0.042 U	0.023 J
Aroclor-1254 (PCB-1254)	mg/kg	--	0.043 U	0.043 UJ	0.04 U	--	0.037 U	1700 U	90 U	84 U	--	0.045 U	0.043 U	0.042 U	0.04 U
Aroclor-1260 (PCB-1260)	mg/kg	--	0.02 J	0.043 UJ	0.04 U	--	0.037 U	1900	96	55 J	--	0.045 U	0.043 U	0.042 U	0.04 U
Total PCBs	mg/kg	--	0.18 J	ND	ND	--	0.044 J	21900 J	1036	585 J	--	0.039 J	0.021 J	0.077	0.023 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	85.7	77.3	75.9	82.6	84.2	89.4	79.3	73.2	78.6	80.4	74.0	77.5	78.9	81.9

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
 AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Area:	A021-2_ WestPlantArea	A021-2	A021-2	A021-2	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	A021-2_ WestPlantArea	
Sample Location:	B-X143Y193CC	B-X143Y193CD	B-X143Y193CD	B-X143Y193CD	B-X143Y193CF	B-X143Y193CF	B-X143Y193CF	B-X143Y193CF	B-X143Y193CF	B-X143Y193CF	B-X143Y193CF	B-X143Y193CF	B-X143Y193CF	B-X143Y193CF	
Sample Identification:	S-022206-JL-1137	S-011508-DD-1537	S-011508-DD-1538	S-011508-DD-1539	S-011508-DD-1522	S-011508-DD-1523	S-011508-DD-1524	S-011508-DD-1525	S-011508-DD-1526	S-011508-DD-1527	S-011508-DD-1528	S-011508-DD-1529	S-011508-DD-1530	S-011508-DD-1531	
Sample Date:	2/22/2006	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	
Sample Depth:	(22-24) ft	(8-10) ft	(8-10) ft	(10-12) ft	(0-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(8-10) ft	(10-12) ft	(12-14) ft	(14-16) ft	(16-18) ft	
Sample Type:			Duplicate							Duplicate					
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	43 U	200 U	200 U	2 U	38 U	1.9 U	42 U	20 U	0.2 U	0.04 U	0.04 U	0.79 U	420 U	420 U
Aroclor-1221 (PCB-1221)	mg/kg	43 U	200 U	200 U	2 U	38 U	1.9 U	42 U	20 U	0.2 U	0.04 U	0.04 U	0.79 U	420 U	420 U
Aroclor-1232 (PCB-1232)	mg/kg	43 U	200 U	200 U	2 U	38 U	1.9 U	42 U	20 U	0.2 U	0.04 U	0.04 U	0.79 U	420 U	420 U
Aroclor-1242 (PCB-1242)	mg/kg	43 U	2000	1700	9.6	38 U	1.9 U	470	20 U	0.2 U	0.04 U	0.04 U	0.79 U	420 U	420 U
Aroclor-1248 (PCB-1248)	mg/kg	530	200 U	200 U	2 U	150	10	42 U	130	0.47 J	0.33 J	0.66	2.1	2700	4500
Aroclor-1254 (PCB-1254)	mg/kg	43 U	270	240	1.7 J	38 U	1.9 U	67	20 U	0.2 U	0.04 U	0.04 U	0.79 U	420 U	420 U
Aroclor-1260 (PCB-1260)	mg/kg	72	200 U	200 U	2 U	38 U	1.9 U	42 U	20 U	0.2 U	0.021 J	0.061	0.79 U	280 J	480
Total PCBs	mg/kg	602	2270	1940	11.3 J	150	10	537	130	0.47 J	0.351 J	0.721	2.1	2980 J	4980
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	77.2	82.9	81.2	81.5	88.0	85.9	79.5	81.6	82.1	83.3	82.1	83.8	79.2	78.6

Notes:
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 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2	A021-2	A021-2	A021-2	A021-2	A021-2	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193CF	B-X143Y193CF	B-X143Y193CF	B-X143Y193CF	B-X143Y193CF	B-X143Y193CH	B-X143Y193CH	B-X143Y193CH	B-X143Y193CH	B-X143Y193CH	B-X143Y193CH	B-X143Y193D	B-X143Y193D	B-X143Y193D	B-X143Y193D	
Sample Identification:	S-011508-DD-1532	S-011508-DD-1533	S-011508-DD-1534	S-011508-DD-1535	S-011508-DD-1536	S-011508-DD-1516	S-011508-DD-1517	S-011508-DD-1518	S-011508-DD-1519	S-011508-DD-1520	S-011508-DD-1521	S-102604-JC-350	S-102604-JC-351	S-102604-JC-352	S-102604-JC-353	
Sample Date:	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	1/15/2008	10/26/2004	10/26/2004	10/26/2004	10/26/2004	
Sample Depth:	(18-20) ft	(20-22) ft	(22-24) ft	(24-26) ft	(26-27.9) ft	(16.1-18) ft	(16.1-18) ft	(18-20) ft	(20-22) ft	(22-24) ft	(24-25.5) ft	(0-2) ft	(2-4) ft	(2-4) ft	(4-6) ft	
Sample Type:						Duplicate								Duplicate		
	Units															
PCBs																
Aroclor-1016 (PCB-1016)	mg/kg	210 U	410 U	210 U	40 U	40 U	210 U	430 U	4.1 U	42 U	41 U	8.9 U	0.82 U	0.38 U	1.9 U	2 U
Aroclor-1221 (PCB-1221)	mg/kg	210 U	410 U	210 U	40 U	40 U	210 U	430 U	4.1 U	42 U	41 U	8.9 U	0.82 U	0.38 U	1.9 U	2 U
Aroclor-1232 (PCB-1232)	mg/kg	210 U	410 U	210 U	40 U	40 U	210 U	430 U	4.1 U	42 U	41 U	8.9 U	0.82 U	0.38 U	1.9 U	2 U
Aroclor-1242 (PCB-1242)	mg/kg	210 U	410 U	210 U	40 U	40 U	210 U	430 U	4.1 U	42 U	41 U	8.9 U	0.82 U	0.38 U	1.9 U	2 U
Aroclor-1248 (PCB-1248)	mg/kg	1800	4400	1600	350	500	1300	3300	24	390	260	82	10	3.4	16	16
Aroclor-1254 (PCB-1254)	mg/kg	210 U	410 U	210 U	40 U	40 U	210 U	430 U	4.1 U	42 U	41 U	8.9 U	0.82 U	0.38 U	1.9 U	2 U
Aroclor-1260 (PCB-1260)	mg/kg	190 J	410 U	160 J	37 J	52	140 J	350 J	2.6 J	41 J	27 J	8.8 J	1	0.27 J	1.4 J	2 U
Total PCBs	mg/kg	1990 J	4400	1760 J	387 J	552	1440 J	3650 J	26.6 J	431 J	287 J	90.8 J	11	3.67 J	17.4 J	16
General Chemistry																
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	79.2	80.7	79.9	81.5	81.7	78.6	76.4	81.3	77.7	80.2	74.2	80.5	86.5	85.6	83.2

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
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 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193D	B-X143Y193D	B-X143Y193F	B-X143Y193F	B-X143Y193F	B-X143Y193F	B-X143Y193G	B-X143Y193G	B-X143Y193G	B-X143Y193G	B-X143Y193G	B-X143Y193H	B-X143Y193H	B-X143Y193H	
Sample Identification:	S-102604-JC-354	S-102604-JC-355	S-102704-JC-356	S-102704-JC-357	S-102704-JC-358	S-102704-JC-361	S-102704-JC-362	S-102704-JC-363	S-102704-JC-364	S-102704-JC-365	S-102704-JC-366	S-102704-JC-367	S-102704-JC-368	S-102704-JC-369	
Sample Date:	10/26/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	
Sample Depth:	(6-8) ft	(8-10) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(4-6) ft	(4-6) ft	(6-8) ft	(8-10) ft	(0-2) ft	(2-4) ft	
Sample Type:									Duplicate						
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.037 UJ	0.04 UJ	0.75 U	1.9 U	4 U	1.9 U	3.9 U	40 U	40 U	0.04 UJ	0.042 UJ	0.19 U	20 U	0.39 U
Aroclor-1221 (PCB-1221)	mg/kg	0.037 UJ	0.04 UJ	0.75 U	1.9 U	4 U	1.9 U	3.9 U	40 U	40 U	0.04 UJ	0.042 UJ	0.19 U	20 U	0.39 U
Aroclor-1232 (PCB-1232)	mg/kg	0.037 UJ	0.04 UJ	0.75 U	1.9 U	4 U	1.9 U	3.9 U	40 U	40 U	0.04 UJ	0.042 UJ	0.19 U	20 U	0.39 U
Aroclor-1242 (PCB-1242)	mg/kg	0.15	0.26	0.75 U	1.9 U	33	1.9 U	3.9 U	40 U	40 U	0.32	0.042 UJ	0.19 U	20 U	0.39 U
Aroclor-1248 (PCB-1248)	mg/kg	0.037 UJ	0.04 UJ	6.8	13	4 U	14	36	770	590	0.04 UJ	0.14	1.1	350	3.8
Aroclor-1254 (PCB-1254)	mg/kg	0.037 UJ	0.04 UJ	0.75 U	1.9 U	4 U	1.9 U	3.9 U	40 U	40 U	0.04 UJ	0.042 UJ	0.19 U	20 U	0.39 U
Aroclor-1260 (PCB-1260)	mg/kg	0.025 J	0.018 J	0.61 J	0.92 J	1.8 J	1 J	3.9 U	62	42	0.065	0.012 J	0.29	14 J	0.38 J
Total PCBs	mg/kg	0.175 J	0.278 J	7.41 J	13.92 J	34.8 J	15 J	36	832	632	0.385	0.152 J	1.39	364 J	4.18 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	88.3	81.8	87.6	86.5	81.8	86.2	84.8	82.4	83.1	82.8	79.4	85.5	84.1	84.3

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193H	B-X143Y193I	B-X143Y193I	B-X143Y193I	B-X143Y193I	B-X143Y193I	B-X143Y193I	B-X143Y193J	B-X143Y193J	B-X143Y193J	B-X143Y193J	B-X143Y193J	B-X143Y193K	B-X143Y193K	
Sample Identification:	S-102704-JC-370	S-102704-JC-373	S-102704-JC-374	S-102704-JC-375	S-102704-JC-376	S-102704-JC-377	S-102704-JC-378	S-102704-JC-379	S-102704-JC-380	S-102704-JC-381	S-102704-JC-382	S-102704-JC-383	S-102704-JC-384	S-102704-JC-385	
Sample Date:	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	
Sample Depth:	(4-6) ft	(0-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(0-2) ft	(2-4) ft	(4-6) ft	(4-6) ft	(6-8) ft	(8-10) ft	(0-2) ft	(2-4) ft	
Sample Type:	Duplicate									Duplicate					
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.44 U	0.38 U	19 U	4 U	0.04 UJ	0.04 UJ	0.38 U	0.8 U	0.19 U	0.37 U	0.4 UJ	0.041 UJ	0.77 U	3.9 U
Aroclor-1221 (PCB-1221)	mg/kg	0.44 U	0.38 U	19 U	4 U	0.04 UJ	0.04 UJ	0.38 U	0.8 U	0.19 U	0.37 U	0.4 UJ	0.041 UJ	0.77 U	3.9 U
Aroclor-1232 (PCB-1232)	mg/kg	0.44 U	0.38 U	19 U	4 U	0.04 UJ	0.04 UJ	0.38 U	0.8 U	0.19 U	0.37 U	0.4 UJ	0.041 UJ	0.77 U	3.9 U
Aroclor-1242 (PCB-1242)	mg/kg	0.44 U	0.38 U	19 U	4 U	0.73	0.04 UJ	0.38 U	0.8 U	0.19 U	0.37 U	4.2	0.041 UJ	0.77 U	3.9 U
Aroclor-1248 (PCB-1248)	mg/kg	1.5	3.6	200	49	0.04 UJ	0.04 UJ	4.5	10	1.1	2.7	0.4 UJ	0.041 UJ	6.6	38
Aroclor-1254 (PCB-1254)	mg/kg	0.44 U	0.38 U	19 U	4 U	0.04 UJ	0.04 UJ	0.38 U	0.8 U	0.19 U	0.37 U	0.4 UJ	0.041 UJ	0.77 U	3.9 U
Aroclor-1260 (PCB-1260)	mg/kg	0.26 J	0.46	21	3.7 J	0.029 J	0.04 UJ	0.4	0.89	0.26	0.47	0.27 J	0.041 UJ	0.48 J	2.5 J
Total PCBs	mg/kg	1.76 J	4.06	221	52.7 J	0.759 J	ND	4.9	10.89	1.36	3.17	4.47 J	ND	7.08 J	40.5 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	75.2	85.9	86.5	82.0	83.3	82.6	87.6	82.8	89.0	89.8	83.4	80.1	85.6	85.3

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
 AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193K	B-X143Y193K	B-X143Y193K	B-X143Y193L	B-X143Y193L	B-X143Y193L	B-X143Y193L	B-X143Y193M	B-X143Y193M	B-X143Y193M	B-X143Y193M	B-X143Y193N	B-X143Y193N	B-X143Y193N	
Sample Identification:	S-102704-JC-386	S-102704-JC-387	S-102704-JC-388	S-102704-JC-389	S-102704-JC-390	S-102704-JC-391	S-102704-JC-394	S-102704-JC-395	S-102704-JC-396	S-102704-JC-397	S-102804-JC-400	S-102804-JC-401	S-102804-JC-402	S-102804-JC-403	
Sample Date:	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/27/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	
Sample Depth:	(4-6) ft	(6-8) ft	(8-10) ft	(0-2) ft	(2-4) ft	(4-6) ft	(0-2) ft	(2-4) ft	(2-4) ft	(2-4) ft	(0-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	
Sample Type:										Duplicate					
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.24 U	0.041 UJ	0.041 UJ	0.76 U	0.8 U	2 U	1.8 U	0.78 U	0.38 U	7.8 U	1.9 U	0.79 U	0.83 U	0.2 UJ
Aroclor-1221 (PCB-1221)	mg/kg	0.24 U	0.041 UJ	0.041 UJ	0.76 U	0.8 U	2 U	1.8 U	0.78 U	0.38 U	7.8 U	1.9 U	0.79 U	0.83 U	0.2 UJ
Aroclor-1232 (PCB-1232)	mg/kg	0.24 U	0.041 UJ	0.041 UJ	0.76 U	0.8 U	2 U	1.8 U	0.78 U	0.38 U	7.8 U	1.9 U	0.79 U	0.83 U	0.2 UJ
Aroclor-1242 (PCB-1242)	mg/kg	0.24 U	0.18	0.041 UJ	0.76 U	0.8 U	2 U	1.8 U	0.78 U	0.38 U	89	1.9 U	0.79 U	0.83 U	0.2 UJ
Aroclor-1248 (PCB-1248)	mg/kg	1.9	0.041 UJ	0.041 UJ	12	6	19	12	6.7	2.2	7.8 U	15	9.6	7	2.9
Aroclor-1254 (PCB-1254)	mg/kg	0.24 U	0.041 UJ	0.041 UJ	0.76 U	0.8 U	2 U	1.8 U	0.78 U	0.38 U	7.8 U	1.9 U	0.79 U	0.83 U	0.2 UJ
Aroclor-1260 (PCB-1260)	mg/kg	0.1 J	0.032 J	0.041 UJ	1.2	0.64 J	1.3 J	0.92 J	0.43 J	0.38 U	4.6 J	1.9 U	0.79 U	0.83 U	0.2 UJ
Total PCBs	mg/kg	2 J	0.212 J	ND	13.2	6.64 J	20.3 J	12.92 J	7.13 J	2.2	93.6 J	15	9.6	7	2.9
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	69.1	80.7	81.2	86.6	82.8	83.3	91.2	84.9	86.4	84.3	84.8	83.4	79.7	82.4

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193O	B-X143Y193O	B-X143Y193O	B-X143Y193O	B-X143Y193O	B-X143Y193O	B-X143Y193O	B-X143Y193P	B-X143Y193P	B-X143Y193P	B-X143Y193P	B-X143Y193P	B-X143Y193P	B-X143Y193Q	
Sample Identification:	S-102804-JC-404	S-102804-JC-405	S-102804-JC-406	S-102804-JC-407	S-102804-JC-408	S-102804-JC-409	S-102804-JC-410	S-102804-JC-411	S-102804-JC-412	S-102804-JC-413	S-102804-JC-414	S-102804-JC-415	S-111604-KMV-586	S-111604-KMV-587	
Sample Date:	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	10/28/2004	11/16/2004	11/16/2004	
Sample Depth:	(0-2) ft	(2-4) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(0-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(8-10) ft	(0-2) ft	(2-4) ft	
Sample Type:			Duplicate										Duplicate		
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	1.8 U	1.9 U	39 U	0.2 U	0.4 UJ	0.041 UJ	0.38 U	0.19 U	0.78 U	19 UJ	0.041 UJ	0.04 UJ	1.9 U	0.77 U
Aroclor-1221 (PCB-1221)	mg/kg	1.8 U	1.9 U	39 U	0.2 U	0.4 UJ	0.041 UJ	0.38 U	0.19 U	0.78 U	19 UJ	0.041 UJ	0.04 UJ	1.9 U	0.77 U
Aroclor-1232 (PCB-1232)	mg/kg	1.8 U	1.9 U	39 U	0.2 U	0.4 UJ	0.041 UJ	0.38 U	0.19 U	0.78 U	19 UJ	0.041 UJ	0.04 UJ	1.9 U	0.77 U
Aroclor-1242 (PCB-1242)	mg/kg	1.8 U	1.9 U	39 U	0.2 U	0.4 UJ	0.048	0.38 U	0.19 U	0.78 U	130	0.015 J	0.016 J	1.9 U	0.77 U
Aroclor-1248 (PCB-1248)	mg/kg	15	18	300	1.2	3.8	0.041 UJ	3.2	2.3	9.2	19 UJ	0.041 UJ	0.04 UJ	17	4.7
Aroclor-1254 (PCB-1254)	mg/kg	1.8 U	1.9 U	39 U	0.2 U	0.4 UJ	0.041 UJ	0.38 U	0.19 U	0.78 U	19 UJ	0.041 UJ	0.04 UJ	1.9 U	0.77 U
Aroclor-1260 (PCB-1260)	mg/kg	1.8	1.6 J	39	0.085 J	0.4 UJ	0.041 UJ	0.3 J	0.17 J	1	10 J	0.041 UJ	0.04 UJ	1.9 U	0.77 U
Total PCBs	mg/kg	16.8	19.6 J	339	1.285 J	3.8	0.048	3.5 J	2.47 J	10.2	140 J	0.015 J	0.016 J	17	4.7
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	90.3	85.8	85.5	81.0	82.9	81.0	86.6	86.3	84.6	85.2	80.8	81.8	88.2	85.2

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193Q	B-X143Y193Q	B-X143Y193Q	B-X143Y193Q	B-X143Y193R	B-X143Y193R	B-X143Y193R	B-X143Y193R	B-X143Y193R	B-X143Y193R	B-X143Y193S	B-X143Y193S	B-X143Y193S	B-X143Y193S	
Sample Identification:	S-111604-KMV-588	S-111604-KMV-589	S-111604-KMV-590	S-111604-KMV-603	S-111604-KMV-591	S-111604-KMV-592	S-111604-KMV-593	S-111604-KMV-594	S-111604-KMV-595	S-111604-KMV-600	S-111704-DD-604	S-111704-DD-605	S-111704-DD-606	S-111704-DD-607	
Sample Date:	11/16/2004	11/16/2004	11/16/2004	11/16/2004	11/16/2004	11/16/2004	11/16/2004	11/16/2004	11/16/2004	11/16/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	
Sample Depth:	(4-6) ft	(6-8) ft	(8-10) ft	(14-16) ft	(0-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(18-20) ft	(0-2) ft	(2-4) ft	(2-4) ft	(4-6) ft	
Sample Type:													Duplicate		
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.039 U	0.4 U	0.04 U	0.045 U	0.39 U	0.39 U	21 U	0.04 U	0.041 U	430 U	20 U	3.8 U	3.8 U	0.079 U
Aroclor-1221 (PCB-1221)	mg/kg	0.039 U	0.4 U	0.04 U	0.045 U	0.39 U	0.39 U	21 U	0.04 U	0.041 U	430 U	20 U	3.8 U	3.8 U	0.079 U
Aroclor-1232 (PCB-1232)	mg/kg	0.039 U	0.4 U	0.04 U	0.045 U	0.39 U	0.39 U	21 U	0.04 U	0.041 U	430 U	20 U	3.8 U	3.8 U	0.079 U
Aroclor-1242 (PCB-1242)	mg/kg	0.039 U	0.4 U	0.04 U	0.037 J	0.39 U	3.2	21 U	0.16	0.041 U	2400	20 U	3.8 U	3.8 U	0.079 U
Aroclor-1248 (PCB-1248)	mg/kg	0.37	2.2	0.032 J	0.045 U	2.7	0.39 U	220	0.04 U	0.032 J	430 U	83	21	27	0.48
Aroclor-1254 (PCB-1254)	mg/kg	0.039 U	0.4 U	0.04 U	0.045 U	0.39 U	0.39 U	21 U	0.04 U	0.041 U	430 U	20 U	3.8 U	3.8 U	0.079 U
Aroclor-1260 (PCB-1260)	mg/kg	0.039 U	0.4 U	0.04 U	0.045 U	0.3 J	0.33 J	21 U	0.04 U	0.041 U	370 J	10 J	1.5 J	1.6 J	0.035 J
Total PCBs	mg/kg	0.37	2.2	0.032 J	0.037 J	3 J	3.53 J	220	0.16	0.032 J	2770 J	93 J	22.5 J	28.6 J	0.515 J
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	83.8	82.7	82.4	73.9	84.5	85.0	79.7	82.8	79.9	77.2	84.2	86.5	86.3	83.1

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193S	B-X143Y193S	B-X143Y193S	B-X143Y193T	B-X143Y193T	B-X143Y193T	B-X143Y193T	B-X143Y193T	B-X143Y193T	B-X143Y193T	B-X143Y193U	B-X143Y193U	B-X143Y193U	B-X143Y193U	
Sample Identification:	S-111704-DD-608	S-111704-DD-609	S-111704-DD-614	S-111704-DD-615	S-111704-DD-616	S-111704-DD-617	S-111704-DD-618	S-111704-DD-619	S-111704-DD-620	S-111704-DD-623	S-111704-DD-624	S-111704-DD-625	S-111704-DD-630	S-111704-DD-626	
Sample Date:	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/17/2004	
Sample Depth:	(6-8) ft	(8-10) ft	(20-22) ft	(0-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(10-12) ft	(18-20) ft	(0-2) ft	(2-4) ft	(2-4) ft	(4-6) ft	
Sample Type:													Duplicate		
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.042 U	0.041 U	0.042 U	7.9 U	19 U	0.19 U	0.039 U	0.041 U	0.041 U	0.044 U	0.38 U	0.4 U	0.04 U	0.41 U
Aroclor-1221 (PCB-1221)	mg/kg	0.042 U	0.041 U	0.042 U	7.9 U	19 U	0.19 U	0.039 U	0.041 U	0.041 U	0.044 U	0.38 U	0.4 U	0.04 U	0.41 U
Aroclor-1232 (PCB-1232)	mg/kg	0.042 U	0.041 U	0.042 U	7.9 U	19 U	0.19 U	0.039 U	0.041 U	0.041 U	0.044 U	0.38 U	0.4 U	0.04 U	0.41 U
Aroclor-1242 (PCB-1242)	mg/kg	0.042 U	0.041 U	0.042 U	7.9 U	19 U	0.19 U	0.039 U	0.041 U	0.041 U	0.044 U	0.38 U	0.4 U	0.04 U	0.41 U
Aroclor-1248 (PCB-1248)	mg/kg	0.13	0.069	0.042 U	40	110	0.92	0.029 J	0.012 J	0.041 U	0.044 U	1.7	1.3	0.26	3
Aroclor-1254 (PCB-1254)	mg/kg	0.042 U	0.041 U	0.042 U	7.9 U	19 U	0.19 U	0.039 U	0.041 U	0.041 U	0.044 U	0.38 U	0.4 U	0.04 U	0.41 U
Aroclor-1260 (PCB-1260)	mg/kg	0.042 U	0.041 U	0.042 U	2.1 J	5.4 J	0.15 J	0.039 U	0.041 U	0.041 U	0.044 U	0.16 J	0.12 J	0.023 J	0.41 U
Total PCBs	mg/kg	0.13	0.069	ND	42.1 J	115.4 J	1.07 J	0.029 J	0.012 J	ND	ND	1.86 J	1.42 J	0.283 J	3
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	78.5	80.8	79.1	83.4	87.5	88.5	85.5	81.1	80.0	75.4	87.1	82.6	82.2	81.2

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
 AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea		
Sample Location:	B-X143Y193U	B-X143Y193U	B-X143Y193U	B-X143Y193U	B-X143Y193V	B-X143Y193V	B-X143Y193V	B-X143Y193V	B-X143Y193V	B-X143Y193V	B-X143Y193V	B-X143Y193V	B-X143Y193V	B-X143Y193W		
Sample Identification:	S-111704-DD-627	S-111704-DD-628	S-111704-DD-632	S-111704-DD-633	S-111804-DD-646	S-111804-DD-647	S-111804-DD-648	S-111804-DD-649	S-111804-DD-650	S-111804-DD-651	S-111804-DD-652	S-111804-DD-655	S-111804-DD-657	S-111804-DD-634		
Sample Date:	11/17/2004	11/17/2004	11/17/2004	11/17/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004		
Sample Depth:	(6-8) ft	(8-10) ft	(15-17) ft	(18-20) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(4-6) ft	(4-6) ft	(6-8) ft	(6-8) ft	(8-10) ft	(14-16) ft	(18-20) ft	(0-0.5) ft
Sample Type:										Duplicate						
	Units															
PCBs																
Aroclor-1016 (PCB-1016)	mg/kg	0.039 U	0.04 U	0.043 U	0.044 U	0.86 U	0.78 U	0.2 U	8 U	4 U	2 U	0.79 U	0.04 U	0.042 U	0.85 U	
Aroclor-1221 (PCB-1221)	mg/kg	0.039 U	0.04 U	0.043 U	0.044 U	0.86 U	0.78 U	0.2 U	8 U	4 U	2 U	0.79 U	0.04 U	0.042 U	0.85 U	
Aroclor-1232 (PCB-1232)	mg/kg	0.039 U	0.04 U	0.043 U	0.044 U	0.86 U	0.78 U	0.2 U	8 U	4 U	2 U	0.79 U	0.04 U	0.042 U	0.85 U	
Aroclor-1242 (PCB-1242)	mg/kg	0.039 U	0.04 U	0.043 U	0.044 U	0.86 U	0.78 U	0.2 U	28	17	15	0.79 U	0.04 U	0.042 U	0.85 U	
Aroclor-1248 (PCB-1248)	mg/kg	0.051	0.43	0.0081 J	0.044 U	9	5.2	0.84	8 U	4 U	2 U	4	0.17	0.042 U	9.7	
Aroclor-1254 (PCB-1254)	mg/kg	0.039 U	0.04 U	0.043 U	0.044 U	0.86 U	0.78 U	0.2 U	8 U	4 U	2 U	0.79 U	0.04 U	0.042 U	0.85 U	
Aroclor-1260 (PCB-1260)	mg/kg	0.039 U	0.069	0.043 U	0.044 U	1.8	0.58 J	0.2 U	8 U	4 U	2 U	0.79 U	0.04 U	0.042 U	1.9	
Total PCBs	mg/kg	0.051	0.499	0.0081 J	ND	10.8	5.78 J	0.84	28	17	15	4	0.17	ND	11.6	
General Chemistry																
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Total solids	%	85.3	82.3	76.9	74.9	76.8	84.5	83.8	82.6	82.7	83.4	83.4	82.0	78.8	77.5	

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
 AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193W	B-X143Y193W	B-X143Y193W	B-X143Y193W	B-X143Y193W	B-X143Y193W	B-X143Y193W	B-X143Y193W	B-X143Y193W	B-X143Y193X	B-X143Y193X	B-X143Y193X	B-X143Y193X	B-X143Y193X	
Sample Identification:	S-111804-DD-635	S-111804-DD-636	S-111804-DD-637	S-111804-DD-638	S-111804-DD-639	S-111804-DD-640	S-111804-DD-644	S-111804-DD-645	S-111804-DD-658	S-111804-DD-659	S-111804-DD-660	S-111804-DD-661	S-111804-DD-662	S-111804-DD-663	
Sample Date:	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	11/18/2004	
Sample Depth:	(1-2) ft	(2-4) ft	(4-6) ft	(4-6) ft	(6-8) ft	(8-10) ft	(16-18) ft	(18-20) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	
Sample Type:				Duplicate											
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.038 U	0.039 U	0.041 U	0.041 U	0.04 U	0.19 U	0.041 U	0.045 U	0.42 U	0.39 U	0.79 U	0.21 U	0.41 U	0.8 U
Aroclor-1221 (PCB-1221)	mg/kg	0.038 U	0.039 U	0.041 U	0.041 U	0.04 U	0.19 U	0.041 U	0.045 U	0.42 U	0.39 U	0.79 U	0.21 U	0.41 U	0.8 U
Aroclor-1232 (PCB-1232)	mg/kg	0.038 U	0.039 U	0.041 U	0.041 U	0.04 U	0.19 U	0.041 U	0.045 U	0.42 U	0.39 U	0.79 U	0.21 U	0.41 U	0.8 U
Aroclor-1242 (PCB-1242)	mg/kg	0.038 U	0.039 U	0.041 U	0.041 U	0.04 U	0.19 U	0.041 U	0.045 U	0.42 U	0.39 U	0.79 U	0.21 U	0.41 U	0.8 U
Aroclor-1248 (PCB-1248)	mg/kg	0.24	0.26	0.09	0.031 J	0.0089 J	1.4	0.041 U	0.045 U	4.8	5.3	9	2.6	6.8	10
Aroclor-1254 (PCB-1254)	mg/kg	0.038 U	0.039 U	0.041 U	0.041 U	0.04 U	0.19 U	0.041 U	0.045 U	0.42 U	0.39 U	0.79 U	0.21 U	0.41 U	0.8 U
Aroclor-1260 (PCB-1260)	mg/kg	0.038	0.029 J	0.03 J	0.041 U	0.04 U	0.14 J	0.041 U	0.045 U	1.3	1.4	0.79 U	0.21 U	0.41 U	0.8 U
Total PCBs	mg/kg	0.278	0.289 J	0.12 J	0.031 J	0.0089 J	1.54 J	ND	ND	6.1	6.7	9	2.6	6.8	10
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	86.0	85.2	81.1	81.3	81.9	86.4	80.5	73.0	78.3	84.3	83.9	80.4	81.1	82.5

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4
AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193X	B-X143Y193X	B-X143Y193X	B-X143Y193Y	B-X143Y193Y	B-X143Y193Y	B-X143Y193Y	B-X143Y193Y	B-X143Y193Y	B-X143Y193Y	B-X143Y193Y	B-X143Y193Y	B-X143Y193Z	B-X143Y193Z	
Sample Identification:	S-111804-DD-664	S-111804-DD-666	S-111804-DD-669	S-111904-DD-670	S-111904-DD-671	S-111904-DD-672	S-111904-DD-675	S-111904-DD-673	S-111904-DD-674	S-111904-DD-676	S-111904-DD-678	S-111904-DD-679	S-112204-DD-680	S-112204-DD-689	
Sample Date:	11/18/2004	11/18/2004	11/18/2004	11/19/2004	11/19/2004	11/19/2004	11/19/2004	11/19/2004	11/19/2004	11/19/2004	11/19/2004	11/19/2004	11/22/2004	11/22/2004	
Sample Depth:	(8-10) ft	(12-14) ft	(18-20) ft	(0-0.5) ft	(1-2) ft	(2-4) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(12-14) ft	(16-18) ft	(0-0.5) ft	(0-0.5) ft	
Sample Type:	Duplicate					Duplicate								Duplicate	
	Units														
PCBs															
Aroclor-1016 (PCB-1016)	mg/kg	0.79 U	0.041 U	0.044 U	20 U	19 U	0.8 U	2 U	2 U	3.9 U	8.2 U	0.083 U	0.044 U	0.4 U	1.9 U
Aroclor-1221 (PCB-1221)	mg/kg	0.79 U	0.041 U	0.044 U	20 U	19 U	0.8 U	2 U	2 U	3.9 U	8.2 U	0.083 U	0.044 U	0.4 U	1.9 U
Aroclor-1232 (PCB-1232)	mg/kg	0.79 U	0.041 U	0.044 U	20 U	19 U	0.8 U	2 U	2 U	3.9 U	8.2 U	0.083 U	0.044 U	0.4 U	1.9 U
Aroclor-1242 (PCB-1242)	mg/kg	0.79 U	0.2	0.044 U	20 U	19 U	0.8 U	2 U	2 U	3.9 U	8.2 U	0.12	0.044 U	0.4 U	1.9 U
Aroclor-1248 (PCB-1248)	mg/kg	13	0.041 U	0.044 U	140	170	5.4	16	13	19	71	0.083 U	0.044 U	5	10
Aroclor-1254 (PCB-1254)	mg/kg	0.79 U	0.041 U	0.044 U	20 U	19 U	0.8 U	2 U	2 U	3.9 U	8.2 U	0.083 U	0.044 U	0.4 U	1.9 U
Aroclor-1260 (PCB-1260)	mg/kg	0.79 U	0.041 U	0.044 U	24	28	0.56 J	2 U	0.73 J	1.7 J	3 J	0.083 U	0.044 U	1.1	2.5
Total PCBs	mg/kg	13	0.2	ND	164	198	5.96 J	16	13.73 J	20.7 J	74 J	0.12	ND	6.1	12.5
General Chemistry															
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total solids	%	83.1	80.2	75.1	83.4	86.7	82.1	84.2	81.2	85.4	80.5	79.5	75.5	82.4	84.9

Notes:
 U - Not detected at the associated reporting limit.
 J - Estimated concentration.
 UJ - Not detected; associated reporting limit is estimated.
 R - Rejected.
 mg/kg - milligram per kilogram
 % - percent

TABLE 2.4

AOI 21-2 INVESTIGATIVE SOIL SAMPLES ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Area:	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	A021-2_WestPlantArea	
Sample Location:	B-X143Y193Z	B-X143Y193Z	B-X143Y193Z	B-X143Y193Z	B-X143Y193Z	B-X143Y193Z	B-X143Y193Z	
Sample Identification:	S-112204-DD-681	S-112204-DD-682	S-112204-DD-683	S-112204-DD-684	S-112204-DD-685	S-112204-DD-686	S-112204-DD-688	
Sample Date:	11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004	
Sample Depth:	(1-2) ft	(2-4) ft	(4-6) ft	(6-8) ft	(8-10) ft	(10-12) ft	(14-16) ft	
Sample Type:								
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	0.19 U	0.39 U	0.41 U	0.4 U	0.039 U	0.04 U	0.043 U
Aroclor-1221 (PCB-1221)	mg/kg	0.19 U	0.39 U	0.41 U	0.4 U	0.039 U	0.04 U	0.043 U
Aroclor-1232 (PCB-1232)	mg/kg	0.19 U	0.39 U	0.41 U	0.4 U	0.039 U	0.04 U	0.043 U
Aroclor-1242 (PCB-1242)	mg/kg	0.19 U	0.39 U	0.41 U	0.4 U	0.039 U	0.04 U	0.043 U
Aroclor-1248 (PCB-1248)	mg/kg	1.3	4.4	2.4	3.9	0.084	0.023 J	0.012 J
Aroclor-1254 (PCB-1254)	mg/kg	0.19 U	0.39 U	0.41 U	0.4 U	0.039 U	0.04 U	0.043 U
Aroclor-1260 (PCB-1260)	mg/kg	0.19 U	0.39 U	0.41 U	0.4 U	0.039 U	0.04 U	0.043 U
Total PCBs	mg/kg	1.3	4.4	2.4	3.9	0.084	0.023 J	0.012 J
General Chemistry								
Cyanide (amenable)	mg/kg	--	--	--	--	--	--	--
Cyanide (total)	mg/kg	--	--	--	--	--	--	--
Total solids	%	86.0	85.5	81.5	81.7	84.2	82.5	77.2

Notes:

U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.
R - Rejected.
mg/kg - milligram per kilogram
% - percent

TABLE 2.5

**AOI 21-2 INVESTIGATIVE GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

Area: **A021-2**
Sample Location: **MW-X143Y193CG**
Sample Identification: **GW-022508-JN-091**
Sample Date: **2/25/2008**

	<i>Units</i>	
Conductivity, field	mS/cm	1.879
Dissolved oxygen (DO), field	µg/L	1940
Flow rate	gpm/ft	0.01
Oxidation reduction potential (ORP), field	millivolts	54.2
pH, field	s.u.	7.02
Temperature, sample	Deg C	10.03
Turbidity, field	NTU	3.52
 PCBs		
Aroclor-1016 (PCB-1016)	µg/L	0.20 U
Aroclor-1016 (PCB-1016) (dissolved)	µg/L	0.20 U
Aroclor-1221 (PCB-1221)	µg/L	0.20 U
Aroclor-1221 (PCB-1221) (dissolved)	µg/L	0.20 U
Aroclor-1232 (PCB-1232)	µg/L	0.20 U
Aroclor-1232 (PCB-1232) (dissolved)	µg/L	0.20 U
Aroclor-1242 (PCB-1242)	µg/L	2.9
Aroclor-1242 (PCB-1242) (dissolved)	µg/L	0.20 U
Aroclor-1248 (PCB-1248)	µg/L	0.20 U
Aroclor-1248 (PCB-1248) (dissolved)	µg/L	1.7
Aroclor-1254 (PCB-1254)	µg/L	0.20 U
Aroclor-1254 (PCB-1254) (dissolved)	µg/L	0.20 U
Aroclor-1260 (PCB-1260)	µg/L	0.078 J
Aroclor-1260 (PCB-1260) (dissolved)	µg/L	0.20 U
Total PCBs	µg/L	2.978 J
Total PCBs (dissolved)	µg/L	1.7

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

ug/L - microgram per liter

Deg C - degree Celsius

gpm/ft - gallons per minute per foot

mS/cm - milli-Siemens per centimeter

NTU - Nephelometric Turbidity Unit

s.u. - standard unit

TABLE 4.1

**SUMMARY OF WEST PLANT AREA INTERIM MEASURE MATERIAL DISPOSAL IN THE VAULT
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

<i>Date</i>	<i>Estimated Quantity of Material Excavated/Placed (cy)</i>	<i>Source of Excavated Material</i>	<i>Remarks</i>
5/19/2006	987	AOI 4 Stockpile, East End	--
5/20/2006	0	--	No >50 ppm excavations performed
5/21/2006	0	--	Sunday (no work)
5/22/2006	1,780	AOI 4 Stockpile, East End	--
5/23/2006	1,688	AOI 4 Stockpile, Center	--
5/24/2006	1,868	AOI 4 Stockpile, West End	--
5/25/2006	1,069	AOI 4 Stockpile, Berms	--
5/26/2006	235	AOI 4 Stockpile, Berms	--
5/27/2006	0	--	No East Plant work performed
5/28/2006	0	--	Sunday (no work)
5/29/2006	0	--	No East Plant work performed
5/30/2006	1,057	Excavation Area #1: GA-4 South End and East Face	--
5/31/2006	1,210	GA-4: West and North Ends	--
6/1/2006	2,145	Excavation Area #2: 725 ft - 720 ft and 720 ft - 715 ft and South: 715 ft - 710 ft	--
6/2/2006	1,573	Excavation Area #2: 725 ft - 720 ft, 720 ft - 715 ft, and 715 ft - 710 ft	--
6/3/2006	1,606	Excavation Area #2: 725 ft - 720 ft, 720 ft - 715 ft, and 715 ft - 710 ft	--
6/4/2006	0	--	Sunday (no work)
6/5/2006	2,134	Excavation Area #2: 725 ft - 720 ft, NE: 720 ft - 715 ft, and Center: 715 ft - 710 ft	--
6/6/2006	2,090	Excavation Area #2 West End: 715 ft - 710 ft, Center: 715 ft - 720 ft and 725 ft - 720 ft, and Zipp Lot: 695 ft - 690 ft	--
6/7/2006	1,100	Excavation Area #2: 725 ft - 720 ft and 720 - 715 ft, Center: 715 ft - 710 ft, and Excavation Area #1: SW 695 ft - 690 ft	--
6/8/2006	1,969	Excavation Area #1 NW: 695 ft - 690 ft, Excavation Area #2 Finger West: 725 ft - 720 ft and 720 ft - 715 ft, and E Center: 715 ft - 710 ft	--
6/9/2006	1,166	Excavation Area #1: 695 ft - 690 ft and Excavation Area #2: 725 ft - 720 ft, 720 ft - 715 ft, and 715 ft - 710 ft	--
6/10/2006	1,683	Excavation Area #1: 690 ft - 685 ft and Excavation Area #2: 725 ft - 720 ft, 720 ft - 715 ft, and 715 ft - 710 ft	--
6/11/2006	0	--	Sunday (no work)
6/12/2006	1,177	Excavation Area #2: SE 715 ft - 710 ft and Excavation Area #1: 685 ft - 680 ft	--
6/13/2006	3,338	Excavation Area #2 SE: 715 ft - 710 ft and Excavation Area #1: 685 ft - 680 ft	--
6/14/2006	88	Excavation Area #2: 715 ft - 710 ft	--
6/15/2006	0	--	No >50 ppm excavations performed
6/16/2006	946	Excavation Area #2: 715 ft - 710 ft	--
6/17/2006	990	Excavation Area #2 NE: 715 ft - 710 ft	--

TABLE 4.1

**SUMMARY OF WEST PLANT AREA INTERIM MEASURE MATERIAL DISPOSAL IN THE VAULT
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

<i>Date</i>	<i>Estimated Quantity of Material Excavated/Placed (cy)</i>	<i>Source of Excavated Material</i>	<i>Remarks</i>
6/18/2006	0	--	Sunday (no work)
6/19/2006	0	--	No excavation due to weather
6/20/2006	1,050	Excavation Area #2: 715 ft - 710 ft	--
6/21/2006	1,100	Excavation Area #2 NW: 715 ft - 710 ft	--
6/22/2006	500	Excavation Area #2: 715 ft - 710 ft	--
6/23/2006	1,090	Excavation Area #2 North: 710 ft - 705 ft	--
6/24/2006	1,045	Excavation Area #2 North: 710 ft - 705 ft	--
6/25/2006	0	--	Sunday (no work)
6/26/2006	980	Excavation Area #2: 710 ft - 705 ft	--
6/27/2006	0	--	No >50 ppm excavations performed
6/28/2006	1,200	Excavation Area #2: 705 ft - 700 ft	--
6/29/2006	1,300	Excavation Area #2: 705 ft - 700 ft	--
6/30/2006	900	Excavation Area #2: 705 ft - 700 ft	--
7/1/2006	0	--	4th of July Holiday Weekend
7/2/2006	0	--	Sunday (no work)
7/3/2006	0	--	4th of July Holiday Weekend
7/4/2006	0	--	4th of July Holiday Weekend
7/5/2006	780	Excavation Area #2: 700 ft - 695 ft	--
7/6/2006	1,400	Excavation Area #2: 700 ft - 695 ft	--
7/7/2006	1,375	Excavation Area #2: 700 ft - 695 ft	--
7/8/2006	1,400	Excavation Area #2: 700 ft - 695 ft	--
7/9/2006	0	--	Sunday (no work)
7/10/2006	1,650	Excavation Area #2 SE: 720 ft - 715 ft	--
7/11/2006	0	--	No excavation due to weather
7/12/2006	0	--	No excavation due to weather
7/13/2006	0	--	No excavation due to weather
7/14/2006	0	--	No excavation due to weather
7/15/2006	0	--	No excavation due to weather
7/16/2006	0	--	Sunday (no work)
7/17/2006	1,364	Excavation Area #2: 715 ft - 710 ft	--
7/18/2006	1,200	Excavation Area #2: 715 ft - 710 ft	--
7/19/2006	800	Excavation Area #2: 715 ft - 710 ft and 695 ft - 690 ft	--
7/20/2006	600	Excavation Area #2: 690 ft - 685 ft	--
7/21/2006	1,100	Excavation Area #2: 690 ft - 685 ft and 710 ft - 705 ft	--
7/22/2006	1,700	Excavation Area #2: 710 ft - 705 ft	--
7/23/2006	0	--	Sunday (no work)
7/24/2006	2,100	Excavation Area #2: 710 ft - 705 ft	--
7/25/2006	2,050	Excavation Area #2: 710 ft - 705 ft	--
7/26/2006	1,420	Excavation Area #2: 710 ft - 705 ft and 685 ft - 680 ft	--
7/27/2006	0	--	No excavation due to weather
7/28/2006	1,100	Excavation Area #2: 685 ft - 680 ft	--
7/29/2006	900	Excavation Area #2: 685 ft - 680 ft	--
7/30/2006	0	--	Sunday (no work)
7/31/2006	2,000	Excavation Area #2: 705 ft - 700 ft	--
8/1/2006	1,200	Excavation Area #2: 705 ft - 700 ft	--
8/2/2006	1,200	Excavation Area #2: 705 ft - 700 ft and 700 ft - 695 ft	--
8/3/2006	1,350	Excavation Area #2: 700 ft - 695 ft	--

TABLE 4.1

SUMMARY OF WEST PLANT AREA INTERIM MEASURE MATERIAL DISPOSAL IN THE VAULT
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

<i>Date</i>	<i>Estimated Quantity of Material Excavated/Placed (cy)</i>	<i>Source of Excavated Material</i>	<i>Remarks</i>
8/4/2006	1,400	Excavation Area #2: 700 ft - 695 ft	--
8/5/2006	950	Excavation Area #1: 690 ft - 685 ft and Excavation Area #2: 700 ft - 695 ft	--
8/6/2006	0	--	Sunday (no work)
8/7/2006	800	Excavation Area #1: 630 ft - 625 ft	--
8/8/2006	250	Excavation Area #1: 625 ft - 620 ft	--
8/9/2006	100	Excavation Area #1: 675 ft - 670 ft and 670 ft - 665 ft	--
8/10/2006	0	--	No >50 ppm excavations performed
8/11/2006	225	Excavation Area #1: 635 ft - 630 ft	--
8/12/2006	1,100	Excavation Area #1: 635 ft - 630 ft, 630 ft - 625 ft, and 680 ft - 675 ft	--
8/13/2006	0	--	Sunday (no work)

TABLE 4.1

**SUMMARY OF WEST PLANT AREA INTERIM MEASURE MATERIAL DISPOSAL IN THE VAULT
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

<i>Date</i>	<i>Estimated Quantity of Material Excavated/Placed (cy)</i>	<i>Source of Excavated Material</i>	<i>Remarks</i>
8/14/2006	700	Excavation Area #1: 680 ft - 675 ft, 670 ft - 665 ft, 620 ft - 615 ft, and 630 ft - 625 ft	--
8/15/2006	250	Excavation Area #1 South: 630 ft - 625 ft	--
8/16/2006	350	Excavation Area #1: 625 ft - 620 ft	--
8/17/2006	2,100	Excavation Area #1: 680 ft - 675 ft	--
8/18/2006	2,000	Excavation Area #1: 680 ft - 675 ft	--
8/19/2006	1,500	Excavation Area #1: 680 ft - 675 ft and 675 ft - 670 ft	--
8/20/2006	0	--	Sunday (no work)
8/21/2006	1,400	Excavation Area #1: 675 ft - 670 ft	--
8/22/2006	1,400	Excavation Area #1: 675 ft - 670 ft	--
8/23/2006	0	--	No >50 ppm excavations performed
8/24/2006	900	Excavation Area #1: 680 ft - 675 ft and 675 ft - 670 ft	--
8/25/2006	1,400	Excavation Area #1: 675 ft - 670 ft	--
8/26/2006	500	Excavation Area #1: 675 ft - 670 ft	--
8/27/2006	0	--	Sunday (no work)
8/28/2006	0	--	No >50 ppm excavations performed
8/29/2006	0	--	No >50 ppm excavations performed
8/30/2006	0	--	No >50 ppm excavations performed
8/31/2006	0	--	No >50 ppm excavations performed
9/1/2006	0	--	No >50 ppm excavations performed
9/2/2006	0	--	Labor Day Holiday weekend
9/3/2006	0	--	Labor Day Holiday weekend
9/4/2006	0	--	Labor Day Holiday weekend
9/5/2006	0	--	No >50 ppm excavations performed
9/6/2006	0	--	No >50 ppm excavations performed
9/7/2006	400	Excavation Area #1 East: 660 ft - 655 ft	--
9/8/2006	900	Excavation Area #1 South: 660 ft - 655 ft	--
9/9/2006	950	Excavation Area #1 South: 660 ft - 655 ft	--
9/10/2006	0	--	Sunday (no work)
9/11/2006	260	Excavation Area #1 Center: 660 ft - 655 ft	--
9/12/2006	0	--	No excavation due to weather
9/13/2006	0	--	No excavation due to weather
9/14/2006	1,000	Excavation Area #1 Center: 660 ft - 655 ft	--
9/15/2006	0	--	No >50 ppm excavations performed
9/16/2006	0	--	No >50 ppm excavations performed
9/17/2006	0	--	Sunday (no work)
9/18/2006	0	--	No >50 pm excavations performed
9/19/2006	0	--	No >50 ppm excavations performed
9/20/2006	0	--	No >50 ppm excavations performed
9/21/2006	--	--	--
9/22/2006	0	--	No excavation due to weather
9/23/2006	0	--	No excavation due to weather
9/24/2006	0	--	Sunday (no work)
9/25/2006	0	--	No >50 ppm excavations performed
9/26/2006	0	--	No >50 ppm excavations performed
9/27/2006	750	Excavation Area #1 Center: 660 ft - 655 ft	--
9/28/2006	0	--	No >50 ppm excavations performed
9/29/2006	0	--	No >50 excavations performed
9/30/2006	0	--	No excavation due to weather

TABLE 4.1

**SUMMARY OF WEST PLANT AREA INTERIM MEASURE MATERIAL DISPOSAL IN THE VAULT
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

<i>Date</i>	<i>Estimated Quantity of Material Excavated/Placed (cy)</i>	<i>Source of Excavated Material</i>	<i>Remarks</i>
10/1/2006	0	--	Sunday (no work)
10/2/2006	725	Excavation Area #2: FA-1B Berm Material	--
10/3/2006	0	--	No excavation due to weather
10/4/2006	425	Excavation Area #2: FA-1B Berm Material	--
10/5/2006	0	--	No placement haul road repair
10/6/2006	450	Excavation Area #1 SE: 660 ft - 655 ft (Re-dig)	--
10/7/2006	500	Excavation Area #1 SW: 660 ft - 655 ft	--
10/8/2006	0	--	Sunday (no work)
10/9/2006	625	Excavation Area #1 far West: 660 ft - 655 ft	--
10/10/2006	0	--	No >50 ppm excavations performed
10/11/2006	0	--	No >50 ppm excavations performed
10/12/2006	0	--	No >50 ppm excavations performed
10/13/2006	0	--	No >50 ppm excavations performed
10/14/2006	0	--	No >50 pm excavations performed
10/15/2006	0	--	Sunday (no work)
10/16/2006	0	--	No >50 ppm excavations performed
10/17/2006	0	--	No excavation due to weather
10/18/2006	0	--	No excavation due to weather
10/19/2006	0	--	No excavation due to weather
10/20/2006	0	--	No excavation due to weather
10/21/2006	0	--	No excavation due to weather
10/22/2006	0	--	Sunday (no work)
10/23/2006	1,750	Excavation Area #1 NE: 655 ft - 650 ft	--
10/24/2006	1,800	Excavation Area #1 SE: 660 ft - 655 ft	--
10/25/2006	1,300	Excavation Area #1 SE: 655 ft - 650 ft	--
10/26/2006	0	No excavation due to weather	--
10/27/2006	0	No excavation due to weather	--
10/28/2006	0	No excavation due to weather	--
10/29/2006	0	--	Sunday (no work)
10/30/2006	600	Excavation Area #1: 655 ft - 650 ft	--
10/31/2006	500	Excavation Area #1: 655 ft - 650 ft	--
11/1/2006	1,000	Excavation Area #1: 655 ft - 650 ft	--
11/2/2006	1,400	Excavation Area #1: 655 ft - 650 ft	--
11/3/2006	1,400	Excavation Area #1 Center: 650 ft - 645 ft	--
11/4/2006	1,100	Excavation Area #1 Center to East: 650 ft - 645 ft	--
11/5/2006	0	--	Sunday (no work)
11/6/2006	1,600	Excavation Area #1 Center to East: 650 ft - 645 ft	--
11/7/2006	0	No excavation due to weather	--
11/8/2006	1,600	Excavation Area #1 Center to East: 650 ft - 645 ft	--
11/9/2006	1,400	Excavation Area #1: 650 ft - 645 ft and 645 ft - 640 ft	--
11/10/2006	1,000	Excavation Area #1: 650 ft - 645 ft and 645 ft - 640 ft	--
11/11/2006	1,200	Excavation Area #1: 645 ft - 640 ft	--
11/12/2006	1,200	Excavation Area #1: 645 ft - 640 ft and 640 ft - 635 ft	Approved to work Sunday
11/13/2006	600	Excavation Area #1: 640 ft - 635 ft	--
11/14/2006	1,400	Excavation Area #1: 640 ft - 635 ft	--
11/15/2006	0	--	No excavation due to weather
11/16/2006	0	--	No excavation due to weather
11/17/2006	0	--	No >50 excavations performed

TABLE 4.1

SUMMARY OF WEST PLANT AREA INTERIM MEASURE MATERIAL DISPOSAL IN THE VAULT
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

<i>Date</i>	<i>Estimated Quantity of Material Excavated/Placed (cy)</i>	<i>Source of Excavated Material</i>	<i>Remarks</i>
11/18/2006	900	Excavation Area #1: 635 ft - 630 ft	--
11/19/2006	1,000	Excavation Area #1: 635 ft - 630 ft	Approved to work Sunday
11/20/2006	900	Excavation Area #1: 635 ft - 630 ft	--
11/21/2006	600	Excavation Area #1: 635 ft - 630 ft	--
11/21/2006	--	--	All East Plant >50 mg/kg PCBs soil removal completed
7/25/2007	224	>50 ppm prescribed area removal at Northern Tributary	ENTACT hauling to the Vault
8/2/2007	736	>50 ppm material from HRC pile at AOI-8	ENTACT hauling to the Vault
8/3/2007	1,216	>50 ppm material from HRC pile at AOI-8	ENTACT hauling to the Vault
8/3/2007	1,024	>50 ppm Northern Tributary Stockpiles # 8, 9 & 10	ENTACT hauling to the Vault
8/6/2007	688	>50 ppm Northern Tributary Stockpile # 11	ENTACT hauling to the Vault

TABLE 4.1

**SUMMARY OF WEST PLANT AREA INTERIM MEASURE MATERIAL DISPOSAL IN THE VAULT
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

<i>Date</i>	<i>Estimated Quantity of Material Excavated/Placed (cy)</i>	<i>Source of Excavated Material</i>	<i>Remarks</i>
8/10/2007	7	>50 ppm material from HRC Roll-off container	ENTACT hauling to the Vault
8/20/2007	976	>50 ppm Northern Tributary Stockpiles #34 and #37	ENTACT hauling to the Vault
9/7/2007	464	>50 ppm Northern Tributary Stockpile #70	ENTACT hauling to the Vault
9/13/2007	512	>50 ppm Northern Tributary Stockpile #79	ENTACT hauling to the Vault
10/4/2007	448	>50 ppm Northern Tributary Stockpile #122	ENTACT hauling to the Vault
10/19/2007	512	>50 ppm Northern Tributary Stockpile #154	ENTACT hauling to the Vault
10/20/2007	--	--	EPA Approval for Additional Vault Placement Pending
5/21/2008	192	>50 ppm Parcel 201 excavation	SES hauling to Vault
5/22/2008	880	>50 ppm Parcel 201 excavation	SES hauling to Vault
5/28/2008	480	>50 ppm Parcel 201 excavation	SES hauling to Vault
6/2/2008	320	>50 ppm Parcel 201 excavation	SES hauling to Vault
6/12/2008	48	>50 ppm from Sewer Abandonment	SES hauling to Vault
6/16/2008	51	>50 ppm from Sewer Abandonment	SES hauling to Vault
6/24/2008	17	>50 ppm from Sewer Abandonment	SES hauling to Vault
7/10/2008	15	>50 ppm from West Plant Excavation (AOI-18 Concrete Pad)	SES hauling to Vault
7/14/2008	51	>50 ppm from West Plant Excavation (AOI-18 Elevation 724.5 ft - 722.1 ft)	SES hauling to Vault
8/26/2008	2	Weeds from Modutank	SES hauling to Vault
8/27/2008	8	Weeds from Modutank	SES hauling to Vault
9/2/2008	2	Weeds from Modutank	SES hauling to Vault
9/18/2008	304	>50 ppm from West Plant Excavation	SES hauling to Vault
9/19/2008	576	>50 ppm from West Plant Excavation	SES hauling to Vault
9/26/2008	496	>50 ppm from West Plant Excavation	SES hauling to Vault
9/26/2008	208	<50 ppm from West Plant Excavation	SES hauling to Vault
9/27/2008	832	<50 ppm from West Plant Excavation	SES hauling to Vault
TOTAL	127,602		Vault Placement Completed

Notes:

AOI - Area of Interest
cy - cubic yards
ENTACT - Entact and Associates, Inc.
FA - Fill Area
ft - feet or foot
GA - Grading Area
HRC - HRC Consulting Engineers
ppm - parts per million
SES - Severson Environmental Services
> - greater than
< - less than

TABLE 8.1

**GROUP 17 AIR MONITORING RESULTS - TSP
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

<i>Date</i>	<i>Location</i>	<i>Unit ID</i>	<i>Total Volume m³</i>	<i>Average Flow m³/min</i>	<i>TSP Concentration mg/m³</i>	<i>Percent Allowable %</i>
25-Jul-08	STATION 1C	TSP-12	628	0.45	0.1736	271 ⁽¹⁾
	STATION 31A	TSP-1	1235	0.87	0.0421	66
	STATION 43	TSP-18	4	*	*	*
	STATION 44	TSP-19	990	0.88	0.0384	UPWIND
26-Jul-08	STATION 1C	TSP-12	777	0.47	0.1248	505 ⁽¹⁾
	STATION 31A	TSP-1	1751	1.04	0.0148	UPWIND
	STATION 43	TSP-18	2	*	*	*
	STATION 44	TSP-19	1441	0.87	0.0354	143 ⁽¹⁾
27-Jul-08	STATION 1C	TSP-12	495	0.4	0.1273	173 ⁽¹⁾
	STATION 31A	TSP-1	2	*	*	*
	STATION 44	TSP-19	1068	0.87	0.044	UPWIND
6-Aug-08	STATION 1C	TSP-12	341	0.23	0.217	354 ⁽²⁾
	STATION 31A	TSP-1	982	0.64	0.0367	UPWIND
	STATION 43	TSP-18	1287	0.88	0.0412	67
	STATION 44	TSP-19	1237	0.83	0.0372	61
7-Aug-08	STATION 1C	TSP-12	754	0.55	0.0557	219 ⁽²⁾
	STATION 31A	TSP-1	1119	0.79	0.0152	UPWIND
	STATION 43	TSP-18	1207	0.91	0.0323	127 ⁽²⁾
	STATION 44	TSP-19	1209	0.88	0.0314	124 ⁽²⁾
8-Aug-08	STATION 1C	TSP-12	820	0.56	0.0439	UPWIND
	STATION 31A	TSP-1	1290	0.85	0.0217	30
	STATION 43	TSP-18	1366	0.92	0.0439	60
	STATION 44	TSP-19	1272	0.88	0.0401	55
11-Aug-08	STATION 1C	TSP-12	694	0.49	0.0418	UPWIND
	STATION 31A	TSP-1	1254	0.87	0.0255	37
	STATION 43	TSP-18	1280	0.89	0.0469	67
	STATION 44	TSP-19	1117	0.79	0.043	62
12-Aug-08	STATION 1C	TSP-12	780	0.55	0.0436	UPWIND
	STATION 31A	TSP-1	1273	0.87	0.0346	48
	STATION 43	TSP-18	1289	0.9	0.0652	90
	STATION 44	TSP-19	1250	0.88	0.0496	68
13-Aug-08	STATION 1C	TSP-12	794	0.54	0.1108	UPWIND
	STATION 31A	TSP-1	1276	0.86	0.0611	33
	STATION 43	TSP-18	1249	0.89	0.0689	37
	STATION 44	TSP-19	1271	0.88	0.1101	60
14-Aug-08	STATION 1C	TSP-12	781	0.55	0.0883	UPWIND
	STATION 31A	TSP-1	1159	0.79	0.0362	25
	STATION 43	TSP-18	1298	0.9	0.0578	39
	STATION 44	TSP-19	1249	0.88	0.0616	42

TABLE 8.1

**GROUP 17 AIR MONITORING RESULTS - TSP
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

<i>Date</i>	<i>Location</i>	<i>Unit ID</i>	<i>Total Volume m³</i>	<i>Average Flow m³/min</i>	<i>TSP Concentration mg/m³</i>	<i>Percent Allowable %</i>
15-Aug-08	STATION 1C	TSP-12	400	0.28	0.095	UPWIND
	STATION 31A	TSP-1	1334	0.9	0.0352	22
	STATION 43	TSP-18	1300	0.9	0.0615	39
	STATION 44	TSP-19	1266	0.89	0.0379	24
16-Aug-08	STATION 31A	TSP-1	1429	0.92	0.0168	**
	STATION 43	TSP-18	1398	0.9	0.0222	**
17-Aug-08	STATION 43	TSP-18	1230	0.92	0.061	**
18-Aug-08	STATION 1C	TSP-12	816	0.55	0.136	102 ⁽²⁾
	STATION 31A	TSP-1	1225	0.77	0.08	UPWIND
	STATION 43	TSP-18	1389	0.91	0.0504	38
	STATION 44	TSP-19	1290	0.85	0.1155	86
19-Aug-08	STATION 1C	TSP-12	755	0.55	0.0848	UPWIND
	STATION 31A	TSP-1	1262	0.91	0.0365	26
	STATION 43	TSP-18	1256	0.9	0.1529	108 ⁽²⁾
	STATION 44	TSP-19	1206	0.88	0.0846	60
20-Aug-08	STATION 1C	TSP-12	784	0.55	0.0867	50
	STATION 31A	TSP-1	1212	0.83	0.0619	36
	STATION 43	TSP-18	1286	0.89	0.2449	141 ⁽²⁾
	STATION 44	TSP-19	1258	0.88	0.1041	UPWIND
21-Aug-08	STATION 1C	TSP-12	773	0.55	0.1501	100 ⁽²⁾
	STATION 31A	TSP-1	1195	0.83	0.0803	54
	STATION 43	TSP-18	1262	0.89	0.1165	78
	STATION 44	TSP-19	1237	0.88	0.0897	UPWIND
22-Aug-08	STATION 1C	TSP-12	806	0.54	0.1253	95
	STATION 31A	TSP-1	1273	0.88	0.0668	51
	STATION 43	TSP-18	1318	0.91	0.0926	70
	STATION 44	TSP-19	1283	0.88	0.0787	UPWIND
23-Aug-08	STATION 1C	TSP-12	636	0.4	0.1352	UPWIND
	STATION 31A	TSP-1	1305	0.78	0.0559	25
	STATION 43	TSP-18	1483	0.9	0.0627	28
	STATION 44	TSP-19	1337	0.84	0.0651	29
25-Aug-08	STATION 1C	TSP-12	478	0.34	0.0941	UPWIND
	STATION 31A	TSP-1	1163	0.79	0.0447	28
	STATION 43	TSP-18	785	0.55	0.2892	184 ⁽²⁾
	STATION 44	TSP-19	1221	0.85	0.0868	55
26-Aug-08	STATION 1C	TSP-12	568	0.41	0.0915	UPWIND
	STATION 31A	TSP-1	1457	1.03	0.0295	19
	STATION 43	TSP-18	1226	0.88	0.1599	105 ⁽²⁾
	STATION 44	TSP-19	1191	0.86	0.0999	65

TABLE 8.1

**GROUP 17 AIR MONITORING RESULTS - TSP
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

<i>Date</i>	<i>Location</i>	<i>Unit ID</i>	<i>Total Volume m³</i>	<i>Average Flow m³/min</i>	<i>TSP Concentration mg/m³</i>	<i>Percent Allowable %</i>
27-Aug-08	STATION 1C	TSP-12	649	0.44	0.0863	UPWIND
	STATION 31A	TSP-1	1426	0.96	0.0309	21
	STATION 43	TSP-18	1290	0.9	0.1419	98
	STATION 44	TSP-19	1269	0.88	0.0678	47
5-Sep-08	STATION 1C	TSP-12	291	0.21	0.2612	271 ⁽²⁾
	STATION 31A	TSP-1	728	0.49	0.0577	UPWIND
	STATION 43	TSP-18	1292	0.89	0.031	32
	STATION 44	TSP-19	1175	0.82	0.063	65
6-Sep-08	STATION 1C	TSP-12	883	0.56	0.06	UPWIND
	STATION 31A	TSP-1	1453	0.89	0.0323	32
	STATION 43	TSP-18	316	*	*	*
	STATION 44	TSP-19	1335	0.85	0.0637	64
8-Sep-08	STATION 1C	TSP-12	701	0.49	0.1241	112 ⁽²⁾
	STATION 31A	TSP-1	1321	0.92	0.0409	37
	STATION 43	TSP-18	809	0.56	0.0853	77
	STATION 44	TSP-19	1195	0.83	0.0661	UPWIND
9-Sep-08	STATION 1C	TSP-12	625	0.44	0.0496	**
	STATION 31A	TSP-1	1323	0.89	0.0302	**
10-Sep-08	STATION 1C	TSP-12	710	0.5	0.1014	UPWIND
	STATION 31A	TSP-1	1300	0.91	0.0677	40
	STATION 43	TSP-18	1283	0.89	0.2369	140 ⁽²⁾
	STATION 44	TSP-19	1232	0.86	0.0633	37
11-Sep-08	STATION 31A	TSP-1	1181	0.8	0.0593	49
	STATION 43	TSP-18	1375	0.95	0.1505	125 ⁽²⁾
	STATION 44	TSP-19	1193	0.84	0.0721	UPWIND
13-Sep-08	STATION 1C	TSP-12	743	0.46	0.1642	135 ⁽²⁾
	STATION 31A	TSP-1	1377	0.84	0.0661	54
	STATION 43	TSP-18	1404	0.88	0.057	47
	STATION 44	TSP-19	1193	0.78	0.0729	UPWIND
15-Sep-08	STATION 1C	TSP-12	179	0.13	0.1397	UPWIND
	STATION 31A	TSP-1	1262	0.86	0.0254	11
	STATION 43	TSP-18	893	0.62	0.047	20
	STATION 44	TSP-19	1098	0.8	0.0474	20
16-Sep-08	STATION 1C	TSP-12	114	0.08	0.4561	UPWIND
	STATION 31A	TSP-1	1262	0.86	0.0404	5
	STATION 43	TSP-18	955	0.66	0.0429	6
	STATION 44	TSP-19	1282	0.9	0.0468	6
17-Sep-08	STATION 1C	TSP-12	116	0.08	0.3621	UPWIND
	STATION 31A	TSP-1	1221	0.81	0.0663	11
	STATION 43	TSP-18	947	0.64	0.0781	13
	STATION 44	TSP-19	1225	0.85	0.0776	13

TABLE 8.1

**GROUP 17 AIR MONITORING RESULTS - TSP
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

<i>Date</i>	<i>Location</i>	<i>Unit ID</i>	<i>Total Volume m³</i>	<i>Average Flow m³/min</i>	<i>TSP Concentration mg/m³</i>	<i>Percent Allowable %</i>
18-Sep-08	STATION 1C	TSP-12	638	0.46	0.0611	UPWIND
	STATION 31A	TSP-1	1153	0.81	0.0659	65
	STATION 43	TSP-18	1081	0.77	0.0916	90
	STATION 44	TSP-19	1243	0.89	0.0732	72
19-Sep-08	STATION 1C	TSP-12	248	0.15	0.2661	183 ⁽²⁾
	STATION 31A	TSP-1	1191	0.78	0.0714	49
	STATION 43	TSP-18	1065	0.63	0.1221	84
	STATION 44	TSP-19	1469	0.89	0.0871	UPWIND
22-Sep-08	STATION 1C	TSP-12	108	0.08	1.213	475 ⁽²⁾
	STATION 31A	TSP-1	888	0.64	0.1554	61
	STATION 43	TSP-18	830	0.61	0.2458	96
	STATION 44	TSP-19	1040	0.77	0.1529	UPWIND
23-Sep-08	STATION 1C	TSP-12	113	0.08	0.6283	295 ⁽²⁾
	STATION 31A	TSP-1	1155	0.81	0.1342	63
	STATION 43	TSP-18	932	0.66	0.22	103 ⁽²⁾
	STATION 44	TSP-19	1223	0.86	0.1276	UPWIND
24-Sep-08	STATION 1C	TSP-12	218	0.15	0.4817	UPWIND
	STATION 31A	TSP-1	1148	0.78	0.1098	14
	STATION 43	TSP-18	960	0.66	0.1948	24
	STATION 44	TSP-19	1249	0.86	0.0921	11
25-Sep-08	STATION 1C	TSP-12	381	0.27	0.0787	UPWIND
	STATION 31A	TSP-1	1111	0.76	0.063	48
	STATION 43	TSP-18	897	0.63	0.1483	113 ⁽²⁾
	STATION 44	TSP-19	1248	0.88	0.1066	81
26-Sep-08	STATION 1C	TSP-12	426	0.28	0.0657	UPWIND
	STATION 31A	TSP-1	1056	0.68	0.1032	94
	STATION 44	TSP-19	1350	0.89	0.1044	95
27-Sep-08	STATION 1C	TSP-12	473	0.27	0.0423	UPWIND
	STATION 31A	TSP-1	1399	0.78	0.0357	51
	STATION 43	TSP-18	0	*	*	*
	STATION 44	TSP-19	1450	0.83	0.0524	74
29-Sep-08	STATION 1C	TSP-12	593	0.42	0.1383	323 ⁽²⁾
	STATION 31A	TSP-1	1171	0.81	0.0256	UPWIND
	STATION 43	TSP-18	1114	0.8	0.0673	157 ⁽²⁾
	STATION 44	TSP-19	1415	1.02	0.0021	5
30-Sep-08	STATION 1C	TSP-12	182	*	*	*
	STATION 31A	TSP-1	1235	0.85	0.0186	UPWIND
	STATION 43	TSP-18	1146	0.82	0.041	132 ⁽²⁾
	STATION 44	TSP-19	1193	0.86	0.0151	49

TABLE 8.1

**GROUP 17 AIR MONITORING RESULTS - TSP
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

<i>Date</i>	<i>Location</i>	<i>Unit ID</i>	<i>Total Volume m³</i>	<i>Average Flow m³/min</i>	<i>TSP Concentration mg/m³</i>	<i>Percent Allowable %</i>
1-Oct-08	STATION 1C	TSP-12	654	0.44	0.0061	12
	STATION 31A	TSP-1	1221	0.8	0.0311	UPWIND
	STATION 43	TSP-18	1252	0.84	0.028	54
	STATION 44	TSP-19	1325	0.89	0.0226	44
2-Oct-08	STATION 1C	TSP-12	608	0.45	0.0049	9
	STATION 31A	TSP-1	1195	0.86	0.0176	34
	STATION 43	TSP-18	1179	0.86	0.0416	80
	STATION 44	TSP-19	1227	0.89	0.031	UPWIND
3-Oct-08	STATION 1C	TSP-12	939	0.67	0.2087	403 ⁽²⁾
	STATION 31A	TSP-1	1227	0.83	0.0473	91
	STATION 43	TSP-18	1221	0.84	0.0827	160 ⁽²⁾
	STATION 44	TSP-19	0	*	*	*
5-Oct-08	STATION 43	TSP-18	312	*	*	*

Notes:

* Results not reported due to machine malfunction.

** UPWIND machine did not run, therefore, percent allowable not calculable.

⁽¹⁾ Exceedance attributed to increased work activities.

⁽²⁾ Exceedance attributed to increased work activities and less than average rainfall.

Removal Action activities in AOI 21-2 began on July 9, 2008 in conjunction with AOI 18 activities. Prior to initiating AOI 21-2 excavation, perimeter air monitoring stations were set up and background readings measured. Soil excavation activities began on September 10, 2008. The excavation was completed on October 4, 2008. A representative of U.S. EPA was on-Site on October 6, 2008 to inspect the excavation prior to backfilling.

TABLE 8.2

GROUP 17 AIR MONITORING RESULTS - PCBs
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

<i>Date</i>	<i>Location</i>	<i>Unit ID</i>	<i>Total Volume m³</i>	<i>Total PCB Mass µg</i>	<i>PCB Concentration µg/m³</i>	<i>Percent Allowable %</i>
25-Jul-08	STATION 43	PUF-4	1	*	*	*
	STATION 44	PUF-17	337	18	0.0534	5
26-Jul-08	STATION 43	PUF-4	1	*	*	*
	STATION 44	PUF-17	480	4.1	0.0085	1
27-Jul-08	STATION 31A	PUF-6	1	*	*	*
	STATION 44	PUF-17	355	3.5	0.0099 J	1
3-Aug-08	STATION 31A	PUF-6	0	*	*	*
6-Aug-08	STATION 1C	PUF-16	459	3.1	0.0068	1
	STATION 31A	PUF-6	484	2	0.0041	0
	STATION 43	PUF-4	391	1.5	0.0038	0
	STATION 44	PUF-17	462	4	0.0087	1
7-Aug-08	STATION 1C	PUF-16	438	2.4	0.0055	1
	STATION 31A	PUF-6	425	1.7	0.004	0
	STATION 43	PUF-4	374	0.7	0.0019 J	0
	STATION 44	PUF-17	398	4.8	0.0121	1
8-Aug-08	STATION 1C	PUF-16	454	6.1	0.0134	1
	STATION 31A	PUF-6	455	1	0.0022	0
	STATION 43	PUF-4	381	24	0.063	6
	STATION 44	PUF-17	433	29	0.067	7
11-Aug-08	STATION 1C	PUF-16	438	3.8	0.0087	1
	STATION 31A	PUF-6	445	4.9	0.011	1
	STATION 43	PUF-4	387	14	0.0362	4
	STATION 44	PUF-17	424	13	0.0307	3
12-Aug-08	STATION 1C	PUF-16	439	5	0.0114	1
	STATION 31A	PUF-6	480	3.4	0.0071	1
	STATION 43	PUF-4	386	11	0.0285	3
	STATION 44	PUF-17	425	7.9	0.0186	2
13-Aug-08	STATION 1C	PUF-16	443	4.8	0.0108	1
	STATION 31A	PUF-6	463	5.2	0.0112	1
	STATION 43	PUF-4	382	14	0.0366	4
	STATION 44	PUF-17	419	23	0.0549	5

TABLE 8.2

GROUP 17 AIR MONITORING RESULTS - PCBs
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

<i>Date</i>	<i>Location</i>	<i>Unit ID</i>	<i>Total Volume</i> <i>m³</i>	<i>Total PCB Mass</i> <i>µg</i>	<i>PCB Concentration</i> <i>µg/m³</i>	<i>Percent Allowable</i> <i>%</i>
14-Aug-08	STATION 1C	PUF-16	454	3.6	0.0079	1
	STATION 31A	PUF-6	454	4	0.0088	1
	STATION 43	PUF-4	403	8.5	0.0211	2
	STATION 44	PUF-17	441	16	0.0363	4
15-Aug-08	STATION 1C	PUF-16	443	3	0.0068	1
	STATION 31A	PUF-6	475	2.8	0.0059	1
	STATION 43	PUF-4	405	8.4	0.0207	2
	STATION 44	PUF-17	426	13	0.0305	3
16-Aug-08	STATION 31A	PUF-6	471	2.5	0.0053 J	1
	STATION 43	PUF-4	449	14	0.0312	3
17-Aug-08	STATION 31A	PUF-6	446	3.9	0.0087	1
	STATION 43	PUF-4	389	18	0.0463	5
18-Aug-08	STATION 1C	PUF-16	488	5.4	0.0111	1
	STATION 31A	PUF-6	510	7	0.0137	1
	STATION 43	PUF-4	443	19	0.0429	4
	STATION 44	PUF-17	469	33	0.0704	7
19-Aug-08	STATION 1C	PUF-16	425	5.7	0.0134	1
	STATION 31A	PUF-6	429	5.6	0.0131	1
	STATION 43	PUF-4	362	17	0.047	5
	STATION 44	PUF-17	411	17	0.0414	4
20-Aug-08	STATION 1C	PUF-16	441	4.8	0.0109	1
	STATION 31A	PUF-6	438	17	0.0388	4
	STATION 43	PUF-4	405	34	0.084	8
	STATION 44	PUF-17	414	24	0.058	6
21-Aug-08	STATION 1C	PUF-16	435	30	0.069	7
	STATION 31A	PUF-6	446	16	0.0359	4
	STATION 43	PUF-4	382	42	0.1099	11
	STATION 44	PUF-17	421	34	0.0808	8
22-Aug-08	STATION 1C	PUF-16	460	14	0.0304	3
	STATION 31A	PUF-6	439	7.1	0.0162	2
	STATION 43	PUF-4	390	36	0.0923	9
	STATION 44	PUF-17	437	30	0.0686	7

TABLE 8.2

GROUP 17 AIR MONITORING RESULTS - PCBs
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

<i>Date</i>	<i>Location</i>	<i>Unit ID</i>	<i>Total Volume</i> <i>m³</i>	<i>Total PCB Mass</i> <i>µg</i>	<i>PCB Concentration</i> <i>µg/m³</i>	<i>Percent Allowable</i> <i>%</i>
23-Aug-08	STATION 1C	PUF-16	478	6	0.0126	1
	STATION 31A	PUF-6	500	3.4	0.0068	1
	STATION 44	PUF-17	458	20	0.0437	4
25-Aug-08	STATION 1C	PUF-16	421	1.3	0.0031	0
	STATION 31A	PUF-6	441	5.7	0.0129	1
	STATION 43	PUF-4	385	21	0.0545	5
	STATION 44	PUF-17	416	6.3	0.0151	2
26-Aug-08	STATION 1C	PUF-16	406	1.5	0.0037	0
	STATION 31A	PUF-6	424	3.6	0.0085	1
	STATION 43	PUF-4	348	19	0.0546	5
	STATION 44	PUF-17	402	12	0.0299	3
27-Aug-08	STATION 1C	PUF-16	442	9.9	0.0224	2
	STATION 31A	PUF-6	443	13	0.0293	3
	STATION 43	PUF-4	344	30	0.0872	9
	STATION 44	PUF-17	418	31	0.0742	7
5-Sep-08	STATION 1C	PUF-16	476	1.2	0.0025	0
	STATION 31A	PUF-6	472	1.9	0.004	0
	STATION 43	PUF-4	434	0.9	0.0021	0
	STATION 44	PUF-17	400	22	0.055	6
6-Sep-08	STATION 1C	PUF-16	392	6.3	0.0161	2
	STATION 31A	PUF-6	522	9.3	0.0178	2
	STATION 43	PUF-4	168	*	*	*
	STATION 44	PUF-17	470	32	0.0681	7
8-Sep-08	STATION 1C	PUF-16	456	14	0.0307	3
	STATION 31A	PUF-6	459	6.3	0.0137	1
	STATION 43	PUF-4	418	15	0.0359	4
	STATION 44	PUF-17	460	31	0.0674	7
10-Sep-08	STATION 1C	PUF-16	468	18	0.0385	4
	STATION 31A	PUF-6	457	14	0.0306	3
	STATION 43	PUF-4	417	32	0.0767	8
	STATION 44	PUF-17	443	15	0.0339	3

TABLE 8.2

GROUP 17 AIR MONITORING RESULTS - PCBs
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

<i>Date</i>	<i>Location</i>	<i>Unit ID</i>	<i>Total Volume</i> <i>m³</i>	<i>Total PCB Mass</i> <i>µg</i>	<i>PCB Concentration</i> <i>µg/m³</i>	<i>Percent Allowable</i> <i>%</i>
11-Sep-08	STATION 1C	PUF-16	442	24	0.0543	5
	STATION 31A	PUF-6	470	18	0.0383	4
	STATION 43	PUF-4	404	110	0.2723	27
	STATION 44	PUF-17	439	24	0.0547	5
13-Sep-08	STATION 1C	PUF-16	516	7.2	0.014	1
	STATION 31A	PUF-6	524	4.7	0.009	1
	STATION 43	PUF-4	462	19	0.0411	4
	STATION 44	PUF-17	489	6.2	0.0127	1
15-Sep-08	STATION 44	PUF-17	439	37	0.0843	8
16-Sep-08	STATION 1C	PUF-16	453	3.2	0.0071	1
	STATION 44	PUF-17	441	67	0.1519	15
17-Sep-08	STATION 1C	PUF-16	461	5.5	0.0119	1
	STATION 44	PUF-17	445	5	0.0112	1
18-Sep-08	STATION 1C	PUF-16	457	6.7	0.0147	1
	STATION 44	PUF-17	433	97	0.224	22
19-Sep-08	STATION 1C	PUF-16	527	18	0.0342	3
	STATION 44	PUF-17	527	66	0.1252	13
22-Sep-08	STATION 1C	PUF-16	432	15	0.0347	3
	STATION 31A	PUF-6	368	20	0.0543	5
	STATION 43	PUF-4	394	290	0.736	74
	STATION 44	PUF-17	418	21	0.0502	5
23-Sep-08	STATION 1C	PUF-16	439	15	0.0342	3
	STATION 31A	PUF-6	370	14	0.0378	4
	STATION 43	PUF-4	410	830	2.0244	202 ⁽¹⁾
	STATION 44	PUF-17	441	70	0.1587	16
24-Sep-08	STATION 1C	PUF-16	449	18	0.0401	4
	STATION 31A	PUF-6	382	17	0.0445	4
	STATION 43	PUF-4	420	740	1.7619	176 ⁽¹⁾
	STATION 44	PUF-17	435	97	0.223	22

TABLE 8.2

GROUP 17 AIR MONITORING RESULTS - PCBs
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

<i>Date</i>	<i>Location</i>	<i>Unit ID</i>	<i>Total Volume</i> <i>m³</i>	<i>Total PCB Mass</i> <i>µg</i>	<i>PCB Concentration</i> <i>µg/m³</i>	<i>Percent Allowable</i> <i>%</i>
25-Sep-08	STATION 1C	PUF-16	450	3.4	0.0076	1
	STATION 31A	PUF-6	408	2.4	0.0059	1
	STATION 43	PUF-4	441	120	0.2721	27
	STATION 44	PUF-17	452	73	0.1615	16
26-Sep-08	STATION 1C	PUF-16	485	2.4	0.0049	0
	STATION 31A	PUF-6	411	1.5	0.0036	0
	STATION 43	PUF-4	494	160	0.3239	32
	STATION 44	PUF-17	469	210	0.4478	45
27-Sep-08	STATION 1C	PUF-16	559	9.7	0.0174	2
	STATION 31A	PUF-6	492	16	0.0325	3
	STATION 43	PUF-4	467	160	0.3426	34
	STATION 44	PUF-17	523	160	0.3059	31
29-Sep-08	STATION 1C	PUF-16	437	4.1	0.0094	1
	STATION 31A	PUF-6	390	1.9	0.0049	0
	STATION 43	PUF-4	403	9.2	0.0228	2
	STATION 44	PUF-17	443	180	0.4063	41
30-Sep-08	STATION 1C	PUF-16	124	*	*	*
	STATION 31A	PUF-6	0	*	*	*
	STATION 43	PUF-4	405	100	0.2469	25
	STATION 44	PUF-17	443	42	0.0948	9
1-Oct-08	STATION 1C	PUF-16	476	1.8	0.0038	0
	STATION 31A	PUF-6	488	0.8	0.0016	0
	STATION 43	PUF-4	417	2.5	0.006	1
	STATION 44	PUF-17	476	110	0.2311	23
2-Oct-08	STATION 1C	PUF-16	432	2.4	0.0056	1
	STATION 31A	PUF-6	444	0.5	0.0011	0
	STATION 43	PUF-4	411	2.5	0.0061	1
	STATION 44	PUF-17	427	25	0.0585	6
3-Oct-08	STATION 1C	PUF-16	406	4.8	0.0118	1
	STATION 31A	PUF-6	473	4.7	0.0099	1
	STATION 43	PUF-4	450	43	0.0956	10
	STATION 44	PUF-17	412	44	0.1068	11
5-Oct-08	STATION 43	PUF-4	117	*	*	*

Notes:

- * Result not reported due to machine malfunction.
- J Estimated results. Results if less than the reporting limit.
- ⁽¹⁾ Exceedance due to increased work activities and less than average rainfall.

Removal Action activities in AOI 21-2 began on July 9, 2008 in conjunction with AOI 18 activities. Prior to initiating AOI 21-2 excavation, perimeter air monitoring stations were set up and background readings measured. Soil excavation activities began on September 10, 2008. The excavation was completed on October 4, 2008. A representative of U.S. EPA was on-Site on October 6, 2008 to inspect the excavation prior to backfilling.

TABLE 8.3

AOI 21-2 CLAY BARRIER/CLEAN FILL (CLAY) LAYER COMPACTION AND GEOTECHNICAL TEST SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Test Date	Test ID	Test Number	Test Depth (inches)	Elevation of Test (ft AMSL)	Proctor Soil ID/Lab #	Identification ⁽¹⁾	Hydraulic Conductivity (cm/s)	Moisture Content (%)	Optimum Moisture Content (%) ⁽¹⁾	Moisture Content Above/Below Optimum Moisture Content (%) ⁽³⁾	Maximum Dry Density (lb/ft ³) ⁽¹⁾	Dry Density (lb/ft ³)	Wet Density (Pound-Force per ft ³)	Compaction (%) ⁽⁴⁾	Pass/Fail
15-Jul-11	WP-CP-1	1	6	723.11	S-INGRAM-110110-SB-37503 ⁽¹⁾	Ingram Quarry	5.60E-08 ⁽¹⁾	19.1	16.9	2	107.8	103.9	123.7	96.3	P
15-Jul-11	WP-CP-2	2	6	722.77	S-INGRAM-110110-SB-37503 ⁽¹⁾	Ingram Quarry	5.60E-08 ⁽¹⁾	19.2	16.9	2	107.8	103.3	123.1	95.8	P
15-Jul-11	WP-CP-3	3	6	719.42	S-INGRAM-110110-SB-37503 ⁽¹⁾	Ingram Quarry	5.60E-08 ⁽¹⁾	18.6	16.9	2	107.8	102.4	121.5	95.0	P
16-Jul-11	WP-CP-4	1	6	718.38	S-INGRAM-110110-SB-37503 ⁽¹⁾	Ingram Quarry	5.60E-08 ⁽¹⁾	20.9	16.9	4	107.8	102.6	124.1	95.2	P
19-Jul-11	WP-CP-5	1	6	718.13	S-INGRAM-110110-SB-37503 ⁽¹⁾	Ingram Quarry	5.60E-08 ⁽¹⁾	19.3	16.9	2	107.8	103.1	123.0	95.6	P
19-Jul-11	WP-CP-6	2	6	711.24	S-INGRAM-110110-SB-37503 ⁽¹⁾	Ingram Quarry	5.60E-08 ⁽¹⁾	19.2	16.9	2	107.8	106.0	126.3	98.3	P
19-Jul-11	WP-CP-7	3	6	717.34	S-INGRAM-110110-SB-37503 ⁽¹⁾	Ingram Quarry	5.60E-08 ⁽¹⁾	19.4	16.9	3	107.8	104.8	125.1	97.2	P
19-Jul-11	WP-CP-8	4	6	723.09	S-INGRAM-110110-SB-37503 ⁽¹⁾	Ingram Quarry	5.60E-08 ⁽¹⁾	20.3	16.9	3	107.8	102.4	123.2	95.0	P
19-Jul-11	WP-CP-9	5	6	721.35	S-INGRAM-110110-SB-37503 ⁽¹⁾	Ingram Quarry	5.60E-08 ⁽¹⁾	19.6	16.9	3	107.8	103.8	124.1	96.3	P
19-Jul-11	WP-P1	1	N/A	723.18	S-071911-SB-SES180	In-place Shelby tube	1.80E-08 ⁽⁵⁾	24.6	N/A	N/A	N/A	102.9	N/A	N/A	P
19-Jul-11	WP-P2	2	N/A	711.45	S-071911-SB-SES181	In-place Shelby tube	2.10E-08 ⁽⁵⁾	25.6	N/A	N/A	N/A	102.3	N/A	N/A	P
29-Jul-11	WP-CP-10	1	4	723.99	S-INGRAM-063011-SB-37519A ⁽²⁾	Ingram Quarry	1.80E-08 ⁽²⁾	19.4	18.8	1	106.2	106.3	126.9	100.1	P
29-Jul-11	WP-CP-11	2	4	723.53	S-INGRAM-063011-SB-37519A ⁽²⁾	Ingram Quarry	1.80E-08 ⁽²⁾	21.8	18.8	3	106.2	103.9	126.5	97.8	P
29-Jul-11	WP-CP-12	3	4	724.09	S-INGRAM-063011-SB-37519A ⁽²⁾	Ingram Quarry	1.80E-08 ⁽²⁾	20.8	18.8	2	106.2	104.4	126.1	98.3	P

Notes:

- ⁽¹⁾ Soil proctor information for material used in area to be covered by the vegetated cover system. Hydraulic conductivity to be at least 1×10^{-7} cm/s.
- ⁽²⁾ Soil proctor information for material used in area to be covered by the hard (asphalt) cover system. Hydraulic conductivity to be at least 1×10^{-5} cm/s.
- ⁽³⁾ Accepted moisture content to be within 5% of optimum moisture content of proctor for samples collected in area of vegetated cover system and within 2% in the area of the asphalt cover system..
- ⁽⁴⁾ Accepted compaction to be at least 95% of maximum dry density of proctor for both the vegetated and asphalt cover systems.
- ⁽⁵⁾ Shelby tube samples collected for permeability testing. Permeability to be at least 1×10^{-5} cm/s.
- N/A Not applicable
- P Pass

TABLE 8.4

AOI 21-2 GRANULAR BASE COMPACTION AND GEOTECHNICAL TEST SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

<i>Test Date</i>	<i>Test ID</i>	<i>Test Number</i>	<i>Test Depth (inches)</i>	<i>Elevation of Test (ft AMSL)</i>	<i>Proctor Soil ID/Lab # ⁽¹⁾</i>	<i>Identification ⁽¹⁾</i>	<i>Moisture Content (%)</i>	<i>Optimum Moisture Content (%) ⁽¹⁾</i>	<i>Moisture Content Above/Below Optimum Moisture Content (%)</i>	<i>Maximum Dry Density (lb/ft³) ⁽¹⁾</i>	<i>Dry Density (lb/ft³)</i>	<i>Wet Density (lb/ft³)</i>	<i>Compaction (%)</i>	<i>Pass/Fail</i>
1-Aug-11	WP-CP-13	1	4	723.96	0014512-21-SI	Ingram Quarry	2.5	8.4	-6	138.6	137.4	140.8	99.1	P
1-Aug-11	WP-CP-14	2	4	724.62	0014512-21-SI	Ingram Quarry	3.5	8.4	-5	138.6	137.0	141.8	98.8	P
1-Aug-11	WP-CP-15	3	4	724.35	0014512-21-SI	Ingram Quarry	2.4	8.4	-6	138.6	136.9	140.2	98.8	P

Notes:

- ⁽¹⁾ Soil proctor information.
- P Pass

TABLE 8.5

**AOI 21-2 ASPHALT COMPACTION TEST SUMMARY
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

<i>Test Date</i>	<i>Compaction Test ID</i>	<i>Test Number</i>	<i>Layer Thickness (inches)</i>	<i>Elevation of Test (ft AMSL)</i>	<i>Layer</i>	<i>Sample ID/Lab # ⁽¹⁾</i>	<i>Identification/Supplier ⁽¹⁾</i>	<i>Maximum L Density (lb/ft³) ⁽¹⁾</i>	<i>In Situ Density (lb/ft³)</i>	<i>Compaction (%) ⁽²⁾</i>	<i>Pass/Fail</i>
18-Aug-11	WP-CP-16	1	2.5	724.63	Base	0014637-30-A1	Dave O'Mara	155.1	143.0	92.2	P
18-Aug-11	WP-CP-17	2	3.5	725.33	Base	0014637-30-A1	Dave O'Mara	155.1	144.0	92.8	P
19-Aug-11	WP-CT-18	1	2.0	724.64	Base	0014637-37-A1	Dave O'Mara	155.6	143.6	92.3	P
19-Aug-11	WP-CT-19	2	2.0	725.79	Base	0014637-37-A1	Dave O'Mara	155.6	143.1	92.0	P
22-Aug-11	WP-CP-20	1	1.5	724.26	Top/Surface	0014637-38-A1	Dave O'Mara	153.9	142.7	92.7	P
22-Aug-11	WP-CP-21	2	1.5	725.88	Top/Surface	0014637-38-A1	Dave O'Mara	153.9	141.6	92.0	P

Notes:

- ⁽¹⁾ Asphalt Test Report
⁽²⁾ Accepted compaction to be between 92% and 97%.
P Pass

TABLE 8.6

AOI 21-2 LLDPE LINER INSTALLATION SUMMARY
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA INTERIM MEASURE
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Panel ID	Date Deployed	Contractor	Manufacturer's Roll Number	Installation Approved (Y/N) ⁽³⁾	Panel Length (feet)	Thickness (mil) min/avg	Carbon Black Content (%)	Tear Resistance (lb)	Puncture Resistance (lb)	Tensile Strength at Break (ppi)	Elongation at Break (%)	Carbon Black Dispersion (Cat 1 or 2)	Density (g/cc) max.	Oxidation Induction Time (minutes)	Asperity Height (mils)	Oven Aging (per ASTM D-5885) (%)	UV Resistance (%)	Roll Approved (Y/N) ⁽¹⁾
WP-1	4-Aug-11	AEG	6272	Y	8	57/65	2.5	39	111	165	590	1	0.930	112	21/23	88	52	Y
WP-2	4-Aug-11	AEG	6272	Y	15	57/65	2.5	39	111	165	590	1	0.930	112	21/23	88	52	Y
WP-3	4-Aug-11	AEG	6272	Y	22	57/65	2.5	39	111	165	590	1	0.930	112	21/23	88	52	Y
WP-4	4-Aug-11	AEG	6272	Y	28	57/65	2.5	39	111	165	590	1	0.930	112	21/23	88	52	Y
WP-5	4-Aug-11	AEG	6272	Y	35	57/65	2.5	39	111	165	590	1	0.930	112	21/23	88	52	Y
WP-6	4-Aug-11	AEG	6277	Y	28	58/65	2.5	41	108	162	579	1	0.933	111	21/21	88	52	Y
WP-7	4-Aug-11	AEG	6277	Y	5	58/65	2.5	41	108	162	579	1	0.933	111	21/21	88	52	Y
WP-8	4-Aug-11	AEG	6277	Y	22	58/65	2.5	41	108	162	579	1	0.933	111	21/21	88	52	Y
WP-9	4-Aug-11	AEG	6277	Y	93	58/65	2.5	41	108	162	579	1	0.933	111	21/21	88	52	Y
WP-10	4-Aug-11	AEG	6277	Y	135	58/65	2.5	41	108	162	579	1	0.933	111	21/21	88	52	Y
WP-11	4-Aug-11	AEG	6277	Y	142	58/65	2.5	41	108	162	579	1	0.933	111	21/21	88	52	Y
WP-12	4-Aug-11	AEG	6294	Y	136	58/65	2.5	40	115	159	577	1	0.932	110	20/21	88	52	Y
WP-13	4-Aug-11	AEG	6291	Y	130	58/65	2.7	42	105	223	689	1	0.932	110	21/21	88	52	Y
WP-14	4-Aug-11	AEG	6291	Y	121	58/65	2.7	42	105	223	689	1	0.932	110	21/21	88	52	Y
WP-15	4-Aug-11	AEG	6291	Y	111	58/65	2.7	42	105	223	689	1	0.932	110	21/21	88	52	Y
WP-16	4-Aug-11	AEG	6291	Y	103	58/65	2.7	42	105	223	689	1	0.932	110	21/21	88	52	Y
WP-17	4-Aug-11	AEG	6281	Y	96	56/65	2.7	42	115	196	638	1	0.933	111	20/20	88	52	Y
WP-18	4-Aug-11	AEG	6281	Y	88	56/65	2.7	42	115	196	638	1	0.933	111	20/20	88	52	Y
WP-19	4-Aug-11	AEG	6282	Y	81	57/65	2.7	42	115	196	638	1	0.933	111	21/21	88	52	Y
WP-20	4-Aug-11	AEG	6282	Y	74	57/65	2.7	42	115	196	638	1	0.933	111	21/21	88	52	Y
WP-21	4-Aug-11	AEG	6282	Y	68	57/65	2.7	42	115	196	638	1	0.933	111	21/21	88	52	Y
WP-22	4-Aug-11	AEG	6296	Y	59	57/66	2.4	44	107	204	641	1	0.932	107	21/21	88	52	Y
WP-23	4-Aug-11	AEG	6296	Y	13	57/66	2.4	44	107	204	641	1	0.932	107	21/21	88	52	Y
WP-24	4-Aug-11	AEG	6296	Y	43	57/66	2.4	44	107	204	641	1	0.932	107	21/21	88	52	Y

Notes:

⁽¹⁾ Approval requires acceptance of quality assurance testing results, which are as follows:

Thickness	60 mil
Density (maximum)	.939 g/cc
Carbon Black Content	2 - 3 %
Tensile Strength at Break	90 ppi
Elongation at Break	100%
Tear Resistance	33 lbs
Puncture Resistance	66 lbs
Asperity Height	10 mils
Carbon Black Dispersion	Cat 1 or 2
Oxidation Induction Time (per ASTM D3895)	100 minutes
Oven Aging at 85 degrees C (per ASTM D5885)	60%
UV Resistance	35%

⁽²⁾ Installed length represents field measurement of actual deployed length.

⁽³⁾ Approval refers to visual inspection of material and installation procedures.

TABLE 8.7

AOI 21-2 SUMMARY OF LLDPE LINER TEST SEAMS
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Date	Time	Seamer ID	Machine ID	Fusion		Peel Test - A (ppi)			Peel Test - B (ppi)			Shear Test - A (ppi)		Shear Test - B (ppi)	Pass/Fail ⁽¹⁾	Comments
				Speed	Temperature (F)	Coupon 1	Coupon 2	Coupon 3	Coupon 1	Coupon 2	Coupon 3	Coupon 1	Coupon 2	Coupon 1		
4-Aug-11	8:06	JP	W-22	7	750	95	98	101	97	100	95	92	100	101	P	S/S
4-Aug-11	8:15	JP	W-22	7	800	92	96	98	94	98	92	93	92	91	P	T/T
4-Aug-11	13:45	JP	W-22	7	800	Not Recorded									F	S/S
4-Aug-11	13:50	JP	W-22	7	800	Not Recorded									F	Not Recorded
5-Aug-11	7:05	JP	W-22	7	800	95	93	92	88	99	93	113	119	127	P	S/S
5-Aug-11	8:00	RD	G-51	450	350	67	90	82	(2)	(2)	(2)	100	96	98	P	T/T
5-Aug-11	8:30	SP	X-292	400	350	86	89	73	(2)	(2)	(2)	90	110	107	P	T/T
5-Aug-11	8:46	ART	G-51	500	500	90	95	88	(2)	(2)	(2)	101	104	101	P	T/T
5-Aug-11	11:20	JP	2449	7	800	89	95	104	100	92	102	103	117	96	P	S/S
5-Aug-11	13:30	ART	G-51	500	500	97	99	113	(2)	(2)	(2)	123	121	109	P	T/T Ext.
6-Aug-11	7:18	ART	G-51	500	500	126	101	107	(2)	(2)	(2)	118	120	114	P	T/T Ext.
6-Aug-11	8:40	JP	G-41	500	500	110	97	109	(2)	(2)	(2)	132	127	108	P	T/T Ext.
6-Aug-11	13:38	ART	G-51	500	500	93	103	117	(2)	(2)	(2)	135	129	113	P	T/T Ext.
6-Aug-11	14:58	JP	G0041	500	500	95	103	101	(2)	(2)	(2)	104	103	107	P	T/T Ext.
6-Aug-11	16:12	JP	G001	500	450	100	99	110	(2)	(2)	(2)	111	107	102	P	T/T Ext.
8-Aug-11	7:15	ART	G-51	500	500	115	110	107	(2)	(2)	(2)	120	122	119	P	Not Recorded

Notes:

⁽¹⁾ Acceptance of test seams requires shear test results of 90 ppi (1,500 psi) and peel test results of 75 ppi (1,250 psi).

⁽²⁾ Extrusion welds result in a single, continuous seam for peel tests to be performed on (therefore, only one sided peel test required).

F Fail

Not Recorded Information was not recorded in the field.

P Pass

S/S Smooth/Smooth

T/T Textured/Textured

T/T Ext. Textured/Textured Extrusion

TABLE 8.9

AOI 21-2 SUMMARY OF LLDPE LINER DESTRUCTIVE TESTS
 CONSTRUCTION CERTIFICATION REPORT
 WEST PLANT AREA RCRA CA IM
 GM CET BEDFORD FACILITY
 BEDFORD, INDIANA

Destructive Test Sample ID	Seam Number	Station	Field Results										Laboratory Results																							
			AEG Test Date	AEG Weld Type	AEG Peel Coupon 1A	AEG Peel Coupon 1B	AEG Peel Coupon 2A	AEG Peel Coupon 2B	AEG Peel Coupon 3A	AEG Peel Coupon 3B	AEG Coupon 1A Shear	AEG Coupon 1B Shear	AEG Coupon 2 Shear	Test Date ⁽¹⁾	Weld Type ⁽¹⁾	Peel Coupon 1A ⁽¹⁾	Peel Coupon 2A ⁽¹⁾	Peel Coupon 3A ⁽¹⁾	Peel Coupon 4A ⁽¹⁾	Peel Coupon 5A ⁽¹⁾	Peel Coupon 1B ⁽¹⁾	Peel Coupon 2B ⁽¹⁾	Peel Coupon 3B ⁽¹⁾	Peel Coupon 4B ⁽¹⁾	Peel Coupon 5B ⁽¹⁾	Coupon 1 Shear ⁽¹⁾	Coupon 2 Shear ⁽¹⁾	Coupon 3 Shear ⁽¹⁾	Coupon 4 Shear ⁽²⁾	Coupon 5 Shear ⁽¹⁾	Mean Peel A (ppi) ⁽¹⁾	Mean Peel B (ppi) ⁽¹⁾	Mean Shear (ppi) ⁽¹⁾	Destructive Test Pass/Fail ⁽²⁾		
WPDS-1	WP-5/WP-4	0+27	5-Aug-11	Fusion	Not Recorded										6-Aug-11	Heat Fusion	110	113	108	119	120	111	114	112	114	113	114	116	116	116	116	118	114	113	116	P
WPDS-2	WP-11/WP-12	1+35	5-Aug-11	Fusion	105	102	106	104	108	112	107	109	109	6-Aug-11	Heat Fusion	112	113	115	112	116	111	110	103	106	111	117	124	121	118	115	114	108	119	P		
WPDS-3	WP-14/WP-13	1+19	5-Aug-11	Fusion	113	108	113	109	108	108	113	114	108	6-Aug-11	Heat Fusion	122	111	112	113	114	116	114	114	113	115	121	123	120	119	121	114	114	121	P		
WPDS-4	WP-17/WP-16	0+85	5-Aug-11	Fusion	108	103	103	99	105	103	106	102	107	6-Aug-11	Heat Fusion	106	106	107	102	105	108	108	109	110	110	115	115	119	113	113	105	109	115	P		
WPDS-5	WP-19/WP-18	0+74	5-Aug-11	Fusion	105	109	113	104	102	95	103	111	98	6-Aug-11	Heat Fusion	108	107	107	108	108	112	106	104	106	111	113	115	111	109	127	108	108	115	P		
WPDS-6	WP-22/WP-21	0+47	5-Aug-11	Fusion	93	102	107	100	101	104	102	105	99	6-Aug-11	Heat Fusion	116	107	106	107	107	103	106	101	104	101	114	118	117	113	117	109	103	116	P		

Note:

⁽¹⁾ Destructive seam quality assurance test results obtained from TRI/Environmental, Inc. laboratory testing final reports.

⁽²⁾ Acceptance of destructive seam shear test requires 90 ppi (1,500 psi) and acceptance of destructive seam peel test requires 75 ppi (1,250 psi).

Not Recorded Field results not recorded. Laboratory results indicate passing destructive test result.

P Pass

TABLE 8.10

**AOI 21-2 SUMMARY OF LLDPE LINER SEAM REPAIRS
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

Repair Number	Test Date	Panel # or Seam ID	Location (Station)	Repair Type	Repair Size		Comments
					Length (ft)	Width (ft)	
WPR-1	5-Aug-11	WP-6	0+23 R7	Boot	7	7	MH Boot
WPR-2	6-Aug-11	WP-6/WP-10\WP-8	1+18	Patch	7	3	--
WPR-3	8-Aug-11	WP-8/WP-9	0+08	Patch	6	2	--
WPR-4	6-Aug-11	WP-8/WP-9\WP-10	0+89	Patch	5	3	--
WPR-5	6-Aug-11	WP-9/WP-10	0+29 to 0+36	Boot	7	7	--
WPR-6	6-Aug-11	WP-10/WP-11	0+48	Patch	16	2	--
WPR-7	6-Aug-11	WP-11/WP-12	0+40	Patch	5	2	--
WPR-8	5-Aug-11	WP-11/WP-12	0+65	Patch	5	2	--
WPR-9	5-Aug-11	WP-11/WP-12	1+12	Patch	3	2	--
WPR-10	6-Aug-11	WP-12/WP-13	1+25	Patch	4	2	--
WPR-11	6-Aug-11	WP-13/WP-14	1+26	Patch	5	2	--
WPR-12	5-Aug-11	WP-2/WP-3	0+24	Patch	2	2	--
WPR-13	5-Aug-11	WP-3/WP-4	0+31	Patch	2	2	--
WPR-14	5-Aug-11	WP-4/WP-5	0+36	Patch	2	2	--
WPR-15	8-Aug-11	WP-11/WP10\WP-5	0+54	Patch	4	4	--
WPR-16	8-Aug-11	WP-10/WP-6\WP-5	0+51	Patch	3	2	--
WPR-17	5-Aug-11	WP-5/WP-4	0+27	Patch	6	2	DS-WPDS-1
WPR-18	5-Aug-11	WP-11/WP--12	1+35	Patch	4	2	DS-WPDS-2
WPR-19	5-Aug-11	WP-13/WP-14	1+19	Patch	4	2	DS-WPDS-3
WPR-20	5-Aug-11	WP-16/WP-17	0+85	Patch	4	2	DS-WPDS-4
WPR-21	5-Aug-11	WP-18/WP-19	0+74	Patch	4	2	DS-WPDS-5
WPR-22	6-Aug-11	WP-21/WP-22	0+47	Patch	4	2	DS-WPDS-6
WPR-23	5-Aug-11	WP-13	0+12 R5 L8	Boot	7	7	--
WPR-24	5-Aug-11	WP-13/WP-14	0+32	Boot	7	3	--
WPR-25	5-Aug-11	WP-12/WP-13	0+6	Patch	9	2	--
WPR-26	5-Aug-11	WP-18/WP-19	0+32	Patch	8	2	--
WPR-27	6-Aug-11	WP-18/WP-19	0+17	Patch	10	2	--
WPR-28	6-Aug-11	WP-20/WP-21	0+4	Patch	6	2	--
WPR-29	6-Aug-11	WP-20/WP-21	0+19	Patch	5	2	--
WPR-30	6-Aug-11	WP-20/WP-21	0+72	Patch	4	2	--
WPR-31	5-Aug-11	WP-17/WP-18	0+47	Patch	7	2	--
WPR-32	6-Aug-11	WP-22/WP-23	0+47 to 0+57	Patch	10	2	--
WPR-33	6-Aug-11	WP-22/WP-24	0+06	Patch	3	2	--
WPR-34	6-Aug-11	WP-22/WP-21	0+03	Patch	5	2	--
WPR-35	6-Aug-11	WP-22/WP-21	0+18	Patch	4	2	--
WPR-36	6-Aug-11	WP-22/WP-21	0+59	Patch	4	2	--
WPR-37	6-Aug-11	WP-18/WP-19	0+3	Patch	5	2	--
WPR-38	6-Aug-11	WP-18/WP-19	0+82	Patch	5	3	--
WPR-39	8-Aug-11	WP-16/WP-17	1+00	Patch	2	1	--
WPR-40	6-Aug-11	WP-16/WP-17	0+02	Patch	3	2	--
WPR-41	6-Aug-11	WP-15/WP-16	0+31	Patch	4	2	--
WPR-42	6-Aug-11	WP-13/WP-14	0+00	Patch	2	2	--
WPR-43	6-Aug-11	WP-12/WP-13	0+35	Patch	2	2	--
WPR-44	6-Aug-11	WP-9/WP-10	0+00	Patch	9	2	--
WPR-45	6-Aug-11	WP-19/WP-20	0+03	Patch	2	2	--
WPR-46	6-Aug-11	WP-19/WP-20	0+75	Patch	2	2	--
WPR-47	6-Aug-11	WP-17/WP-18	0+90	Patch	3	2	--
WPR-48	8-Aug-11	WP-15/WP-16	1+05	Patch	15	3	--
WPR-49	6-Aug-11	WP-14/WP-15	1+14	Patch	4	2	--
WPR-50	6-Aug-11	WP-15/WP-16	0+2	Patch	4	4	--
WPR-51	6-Aug-11	WP-14/WP-15	0+2	Patch	2	2	--
WPR-52	6-Aug-11	WP-24/WP23	0+2	Patch	3	2	--
WPR-53	6-Aug-11	WP-10/WP-11	0+5	Patch	4	2	--
WPR-54	6-Aug-11	WP-17/WP-18	0+3	Patch	3	2	--
WPR-55	6-Aug-11	WP-9/WP-10	0+17	Patch	2	2	--
WPR-56	8-Aug-11	WP-6/WP8	0+0	Patch	2	2	--
WPR-57	6-Aug-11	WP-12/WP-13	1+33	Patch	2	2	--
WPR-58	8-Aug-11	WP-11/WP-12	1+58	Patch	3	2	--
WPR-59	6-Aug-11	WP-10/WP11	0+45	Patch	2	2	--
WPR-60	6-Aug-11	WP-9/WP-10	0+26	Patch	3	2	--
WPR-61	6-Aug-11	WP-9/WP-10	0+36	Patch	2	2	--
WPR-62	6-Aug-11	WP-9/WP-10	0+11	Patch	2	2	--
WPR-63	6-Aug-11	WP-10/WP-11	0+50	Patch	1	1	--

TABLE 8.11

AOI 21-2 SUMMARY OF DRAINAGE GEOCOMPOSITE LAYER INSTALLATION
CONSTRUCTION CERTIFICATION REPORT
WEST PLANT AREA RCRA CA IM
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

<i>Date Deployed</i>	<i>Contractor</i>	<i>Manufacturer's Roll Number ⁽⁷⁾</i>	<i>Comments</i>	<i>Density ⁽¹⁾</i> <i>(g/cc)</i>	<i>Transmissivity ⁽²⁾</i> <i>(m²/sec)</i>	<i>Carbon Black Content ⁽¹⁾</i> <i>(%)</i>	<i>Min Ply Adhesion ⁽²⁾</i> <i>(lb/ft²)</i>	<i>Avg Ply Adhesion ⁽²⁾</i> <i>(lb/ft²)</i>	<i>Tensile Strength ⁽¹⁾</i> <i>(lb/in)</i>	<i>Permeability ⁽³⁾</i> <i>(cm/s)</i>	<i>Permittivity ⁽³⁾</i> <i>(1/sec)</i>	<i>Apparent Opening Size ⁽³⁾</i> <i>(sieve size)</i>
8-Aug-11	Sevenson, AEGE	21061.05	geotextile	(4)	(5)	(4)	(4)	(4)	(4)	0.43	1.35	80
8-Aug-11	Sevenson, AEGE	21061.23	geotextile	(4)	(5)	(4)	(4)	(4)	(4)	0.43	1.35	80
8-Aug-11	Sevenson, AEGE	221710048	geocomposite	0.9541	(5)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
8-Aug-11	Sevenson, AEGE	221710050	geocomposite	0.9541	(5)	2.36	1.43	2.32	108	(4)	(4)	(4)
8-Aug-11	Sevenson, AEGE	221710246	geocomposite	0.9552	(5)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
8-Aug-11	Sevenson, AEGE	221710251	geocomposite	0.9552	(5)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
8-Aug-11	Sevenson, AEGE	221710257	geocomposite	0.9552	(5)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
8-Aug-11	Sevenson, AEGE	221710262	geocomposite	0.9552	(5)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
8-Aug-11	Sevenson, AEGE	221710266	geocomposite	0.9552	(5)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
8-Aug-11	Sevenson, AEGE	221710269	geocomposite	0.9552	(5)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
8-Aug-11	Sevenson, AEGE	Tag missing from liner roll ⁽⁶⁾	geocomposite	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
8-Aug-11	Sevenson, AEGE	Tag missing from liner roll ⁽⁶⁾	geocomposite	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)

Note:

⁽¹⁾ Geonet density (at least 0.94 g/cc), carbon black content (between 2% and 3%) and tensile strength (450 lb/ft) were required to be tested at a frequency of 1 per 50,000 ft² of liner.

⁽²⁾ Transmissivity (1x10⁻³ m²/sec) and ply adhesion (0.5 lb/ft²) were required to be tested at a frequency of 1 per 200,000 ft² and 1 per 100,000 ft² of liner, respectively.

⁽³⁾ Permeability (minimum 0.3 cm/s), permittivity (minimum 0.5 sec⁻¹), and apparent opening size (maximum 70 sieve size) were required to be tested at a frequency of 1 per 100,000 ft² of liner.

⁽⁴⁾ The roll of material did not undergo the QA test; however, the QA testing frequency for the type of test was met based on the total amount of liner used (approximately 22,600 ft² of geocomposite and 19,00 ft² of geotextile).

⁽⁵⁾ Transmissivity was tested on one roll of liner per every 35 rolls of liner. Although none of the rolls of liner used in the West Plant cover system construction had transmissivity tested, they were a part of a "set" of rolls that met the transmissivity testing frequency. The associated roll numbers and transmissivity results are provided below:

<i>Manufacturer Roll Number</i>	<i>Transmissivity (m²/s) ⁽⁴⁾</i> <i>(15 minutes)</i>
221710035	2.41x10 ⁻³
221710070	2.45x10 ⁻³
221710105	2.39x10 ⁻³
221710140	2.48x10 ⁻³
221710175	2.35x10 ⁻³
221710210	2.50x10 ⁻³
221710245	2.37x10 ⁻³

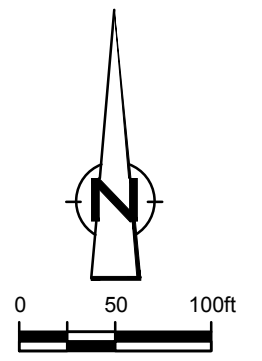
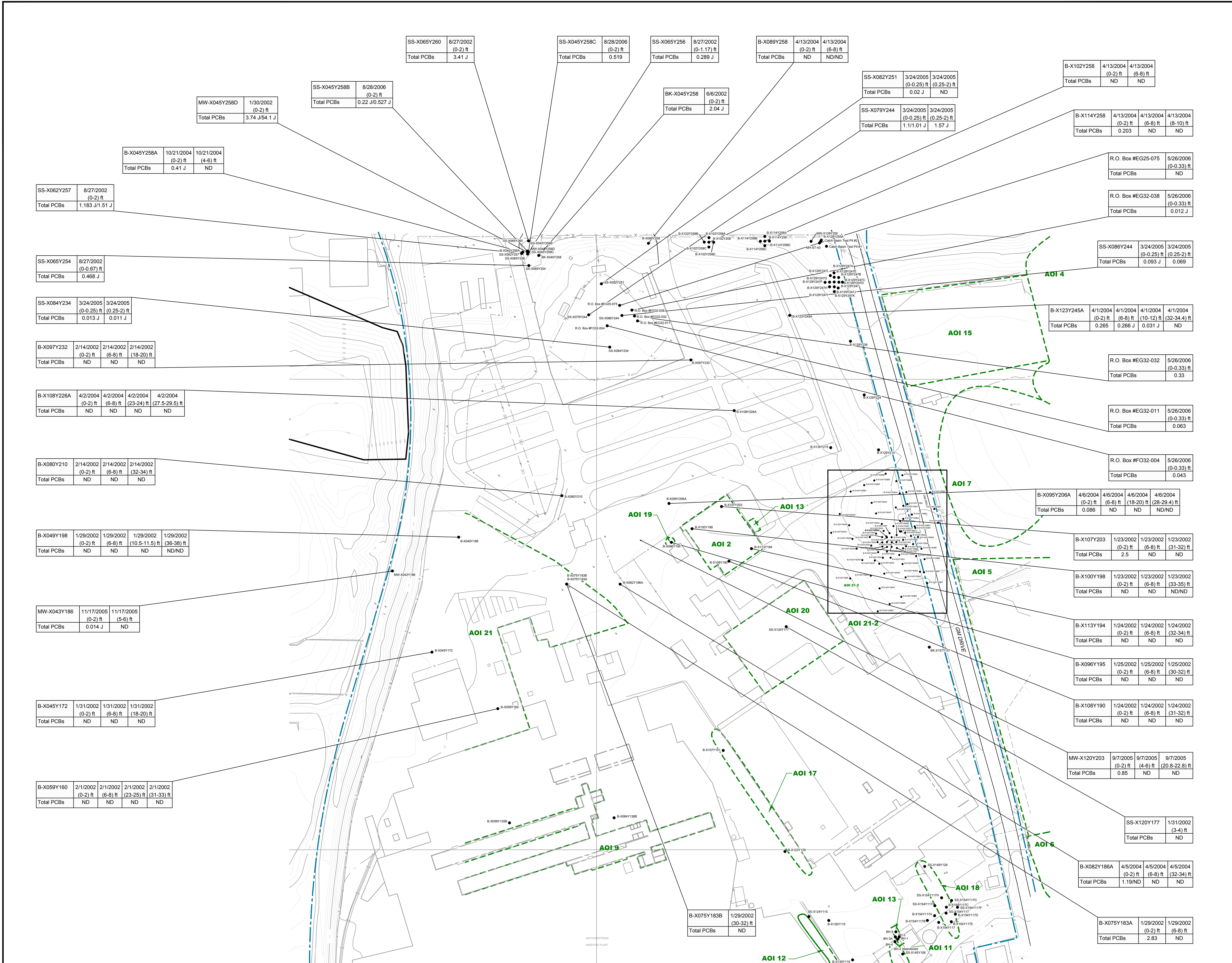
⁽⁶⁾ Prior to delivery to the Site, the manufacturer's liner certifications were reviewed and approved. Upon delivery to the Site, the rolls of liner were stockpiled in accordance to the manufacturer's specifications and used when needed. Some of the tags fell off the liner rolls while stockpiled and could not be matched up to the unaccounted roll numbers delivered to the Site as there were several rolls without tags that were also used in the construction of the East Plant Area Cover System.

⁽⁷⁾ Each roll of liner is 2,800 ft².

Appendix A

Data Box Figures Including:

- A 1.1 Analytical Data – PCBs West Plant Area
- A 1.2 Analytical Data – PCBs West Plant Area
- A 1.3 Analytical Data – PCBs West Plant Area
- A 1.4 Analytical Data – PCBs West Plant Area
- A 2.1 Analytical Data – Non-PCBs West Plant Area
- A 2.2 Analytical Data – Non-PCBs West Plant Area
- A 2.3 Analytical Data – PCBs West Plant Area
- A 2.4 Analytical Data – PCBs West Plant Area



- LEGEND**
- - - - - AOI BOUNDARY
 - - - - - APPROXIMATE GM PROPERTY BOUNDARY
 - - - - - STREAMS
 - - - - - FENCE LINE
 - - - - - RAILROAD TRACKS
 - - - - - DIRT ROADS
 - - - - - ROADS / PAVED AREAS
 - SOIL SAMPLE LOCATION

SAMPLE LOCATION IDENTIFIER

SS-X045Y114B	2/4/2002	(0-2) ft	0.017 J
Total PCBs			

1.51/1.18 PARENT SAMPLE VALUE/DUPLICATE SAMPLE VALUE
 J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY
 ND NOT DETECTED
 U NOT PRESENT AT OR ABOVE THE ASSOCIATED VALUE
 UJ NOT PRESENT AT OR ABOVE THE ASSOCIATED ESTIMATED REPORTING LIMIT

Chemical Name	Criteria (mg/kg)
Total PCBs	7.44E+00

- AOI SUMMARY**
- | AOI ID | Description |
|----------|---|
| AOI 2 | Waste Storage Area |
| AOI 4 | Former North Disposal Area |
| AOI 5 | Former East Sand Disposal Area |
| AOI 6 | Former Sludge Disposal and Fire Training Area |
| AOI 7 | Former North Lagoon and Outfall 001 |
| AOI 8 | Former South Lagoons and Outfall 002 |
| AOI 9 | Services Tunnels |
| AOI 11 | Aboveground Storage Tanks |
| AOI 12 | Area Affected by the Reclaimed Hydraulic Fluid Release |
| AOI 13 | Underground Storage Tanks |
| AOI 14 | McBride Cows Disposal Area |
| AOI 15 | Former Equipment Storage Area |
| AOI 17 | Piston Building Oil Accumulations |
| AOI 19 | Area Affected by Paint and Thinner Spill |
| AOI 20 | Northern Portion of the Piston Building |
| AOI 21 | Filled Ravine North of the Cast Building |
| AOI 21-2 | Former Drainage Valley Northeast of Piston and Office Buildings |

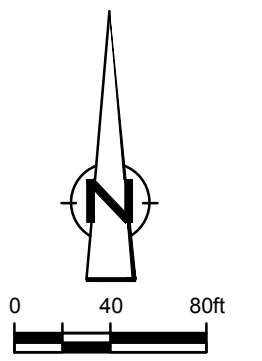
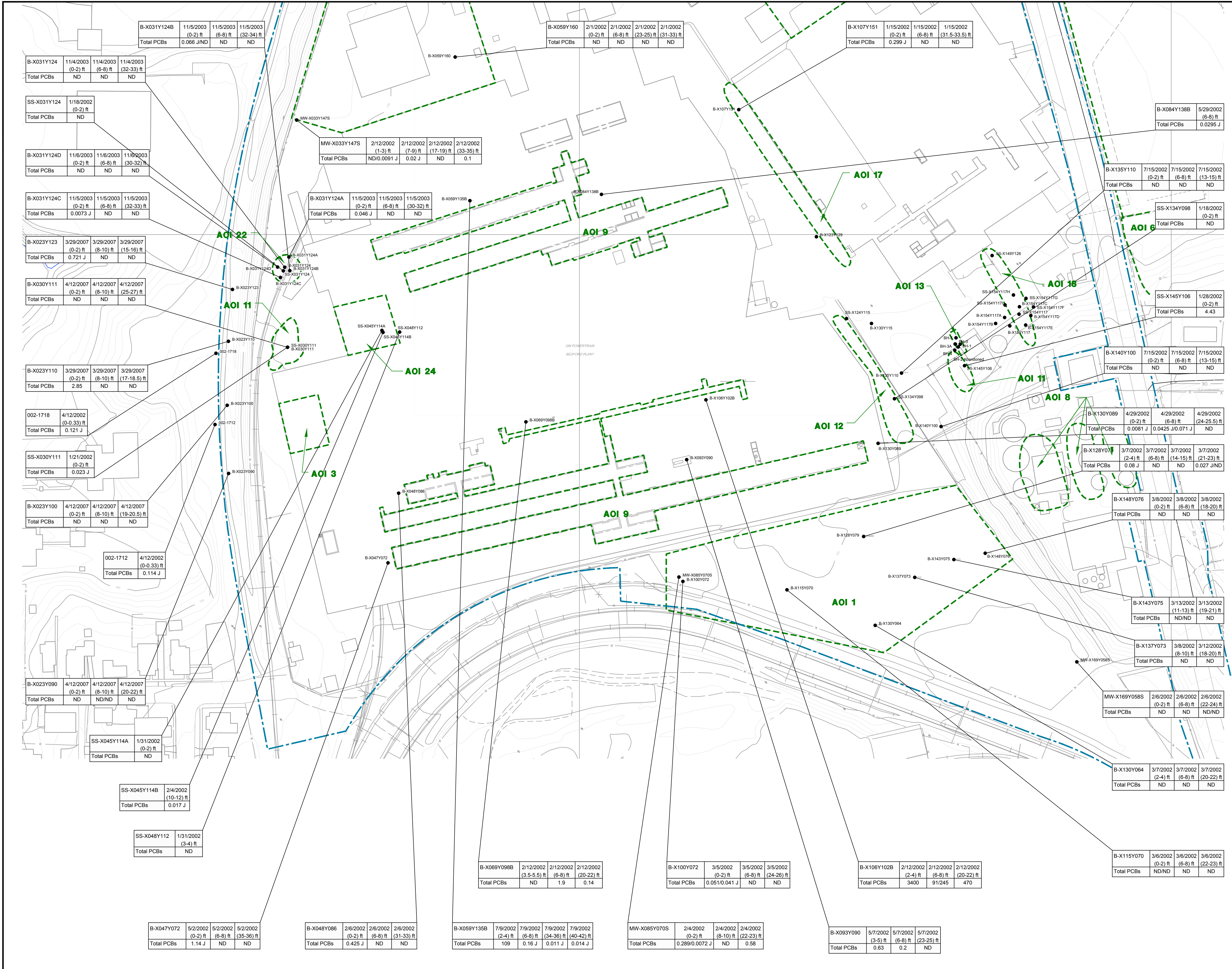
SCALE VERIFICATION
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

**GM CET BEDFORD FACILITY
 BEDFORD, INDIANA**
 CONSTRUCTION CERTIFICATION REPORT, WEST PLANT AREA RCRA CA 1M
**ANALYTICAL DATA - PCBs
 WEST PLANT AREA**

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001
 AND CRA SURVEYS 2002 - 2013

Project Manager: J.M.	Reviewed By: S.G.	Date: APRIL 2007
Scale: AS SHOWN	Project N°: 13968-00	Report N°: 302
		Drawing N°: A 1.1



LEGEND

- - - AOI BOUNDARY
- - - APPROXIMATE PARCEL LIMIT
- APPROXIMATE GM PROPERTY BOUNDARY
- STREAMS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- SOIL SAMPLE LOCATION

SAMPLE LOCATION IDENTIFIER

SS-X045Y114B	2/4/2002	(10-12) ft	GROUND SURFACE	CONCENTRATION	CHEMICAL NAME
Total PCBs	0.017 J				

1.51/1.18 PARENT SAMPLE VALUE/DUPLICATE SAMPLE VALUE
 J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY
 ND NOT DETECTED
 U NOT PRESENT AT OR ABOVE THE ASSOCIATED VALUE
 UJ NOT PRESENT AT OR ABOVE THE ASSOCIATED ESTIMATED REPORTING LIMIT

Chemical Name	Criteria (mg/kg)
Total PCBs	7.44E+00

AOI SUMMARY

AOI ID	Description
AOI 2	Waste Storage Area
AOI 4	Former North Disposal Area
AOI 5	Former East Sand Disposal Area
AOI 6	Former Sludge Disposal and Fire Training Area
AOI 7	Former North Lagoon and Outfall 001
AOI 8	Former South Lagoons and Outfall 002
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AOI 21	Filled Ravine North of Die Cast Building
AOI 21-2	Former Drainage Valley Northeast of Piston and Office Buildings

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

**GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

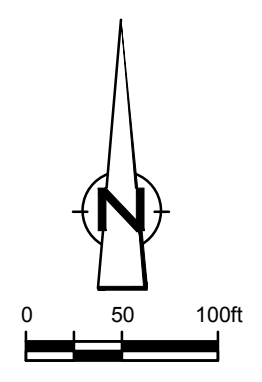
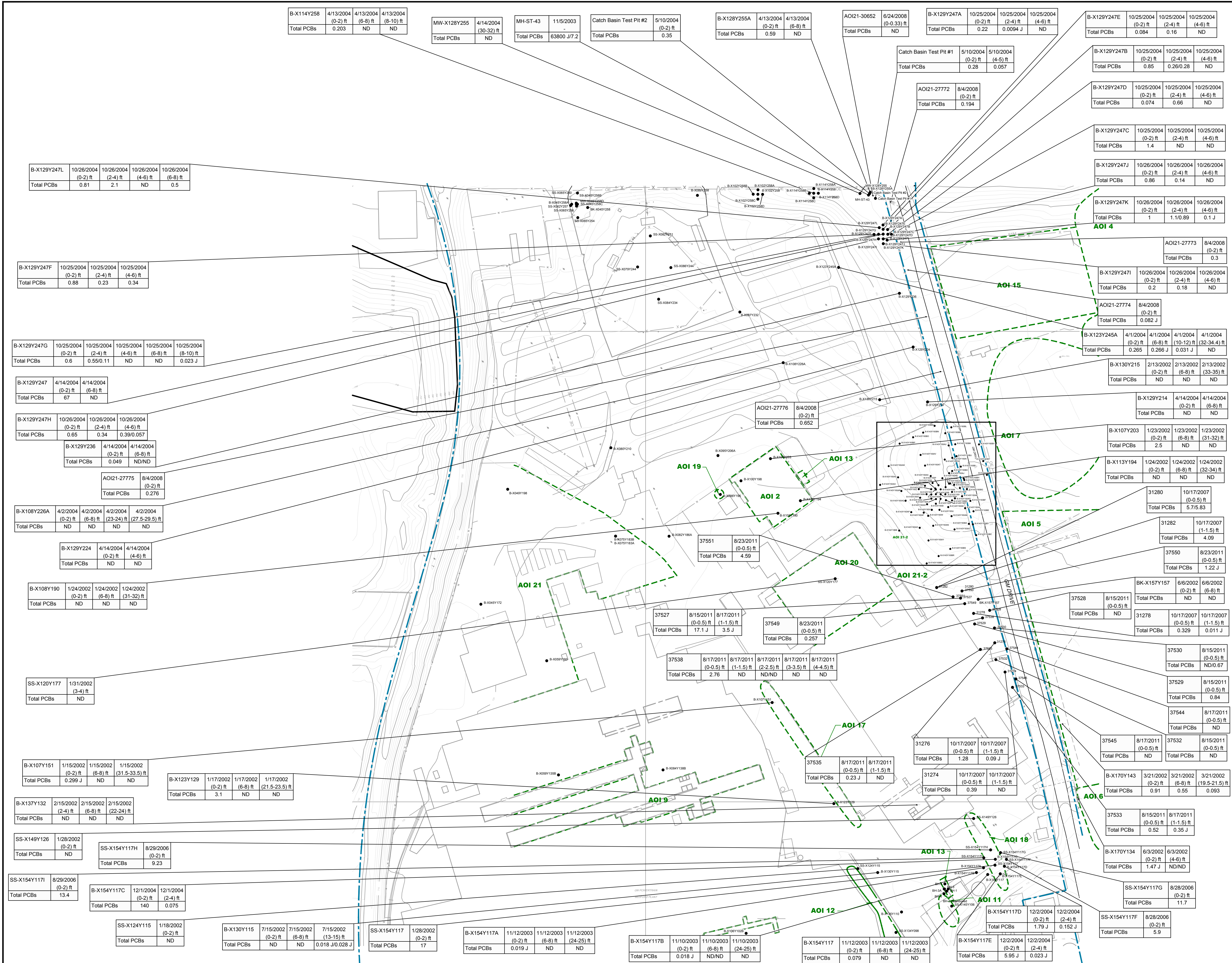
CONSTRUCTION CERTIFICATION REPORT, WEST PLANT AREA RCRA CA 1M

**ANALYTICAL DATA - PCBs
WEST PLANT AREA**



Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001
 AND CRA SURVEYS 2002 - 2013

Project Manager: J.M.	Reviewed By: S.G.	Date: APRIL 2007
Scale: AS SHOWN	Project No: 13968-00	Report No: 302
		Drawing No: A 1.2



LEGEND

- AOI BOUNDARY
- APPROXIMATE GM PROPERTY BOUNDARY
- STREAMS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- SOIL SAMPLE LOCATION

SAMPLE LOCATION IDENTIFIER

SS-X154Y117F	8/29/2006	(0-2) ft	5.9
Total PCBs			

DATE SAMPLE TAKEN
SAMPLE DEPTH IN FEET BELOW GROUND SURFACE
CONCENTRATION
CHEMICAL NAME

1.51/1.18 PARENT SAMPLE VALUE/DUPLICATE SAMPLE VALUE
J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY
ND NOT DETECTED
U NOT PRESENT AT OR ABOVE THE ASSOCIATED VALUE
UU NOT PRESENT AT OR ABOVE THE ASSOCIATED ESTIMATED REPORTING LIMIT

Chemical Name	Criteria (mg/kg)
Total PCBs	7.44E+00

AOI SUMMARY

AOI ID	Description
AOI 2	Waste Storage Area
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SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

**GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

CONSTRUCTION CERTIFICATION REPORT, WEST PLANT AREA RCRA CA 1M

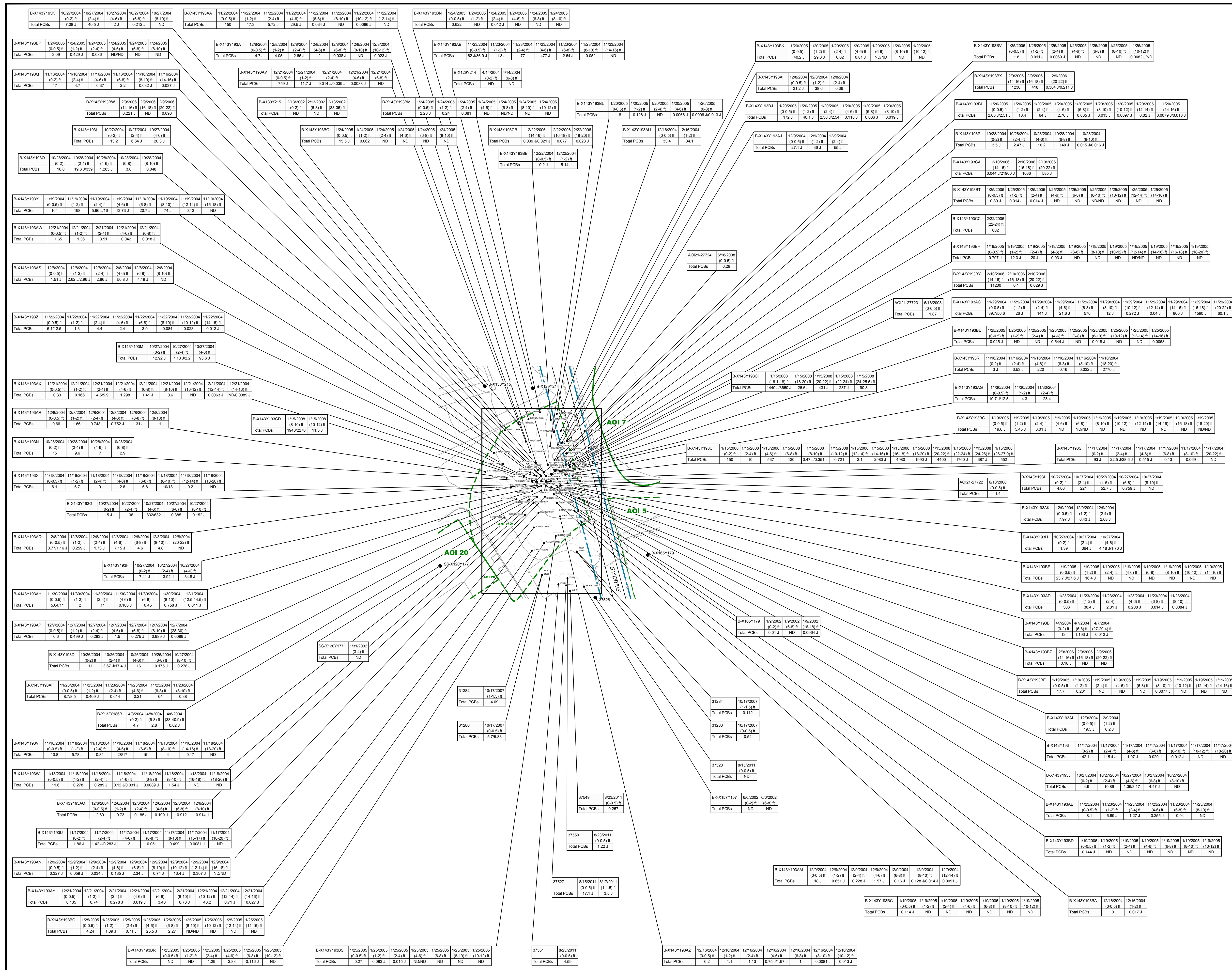
**ANALYTICAL DATA - PCBs
WEST PLANT AREA**



Source Reference:

BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001 AND CRA SURVEYS 2002 - 2013

Project Manager: J.M.	Reviewed By: S.G.	Date: APRIL 2007
Scale: AS SHOWN	Project No: 13968-00	Report No: 302
		Drawing No: A 1.3



LEGEND

- AOI BOUNDARY
- APPROXIMATE GM PROPERTY BOUNDARY
- STREAMS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- SOIL SAMPLE LOCATION

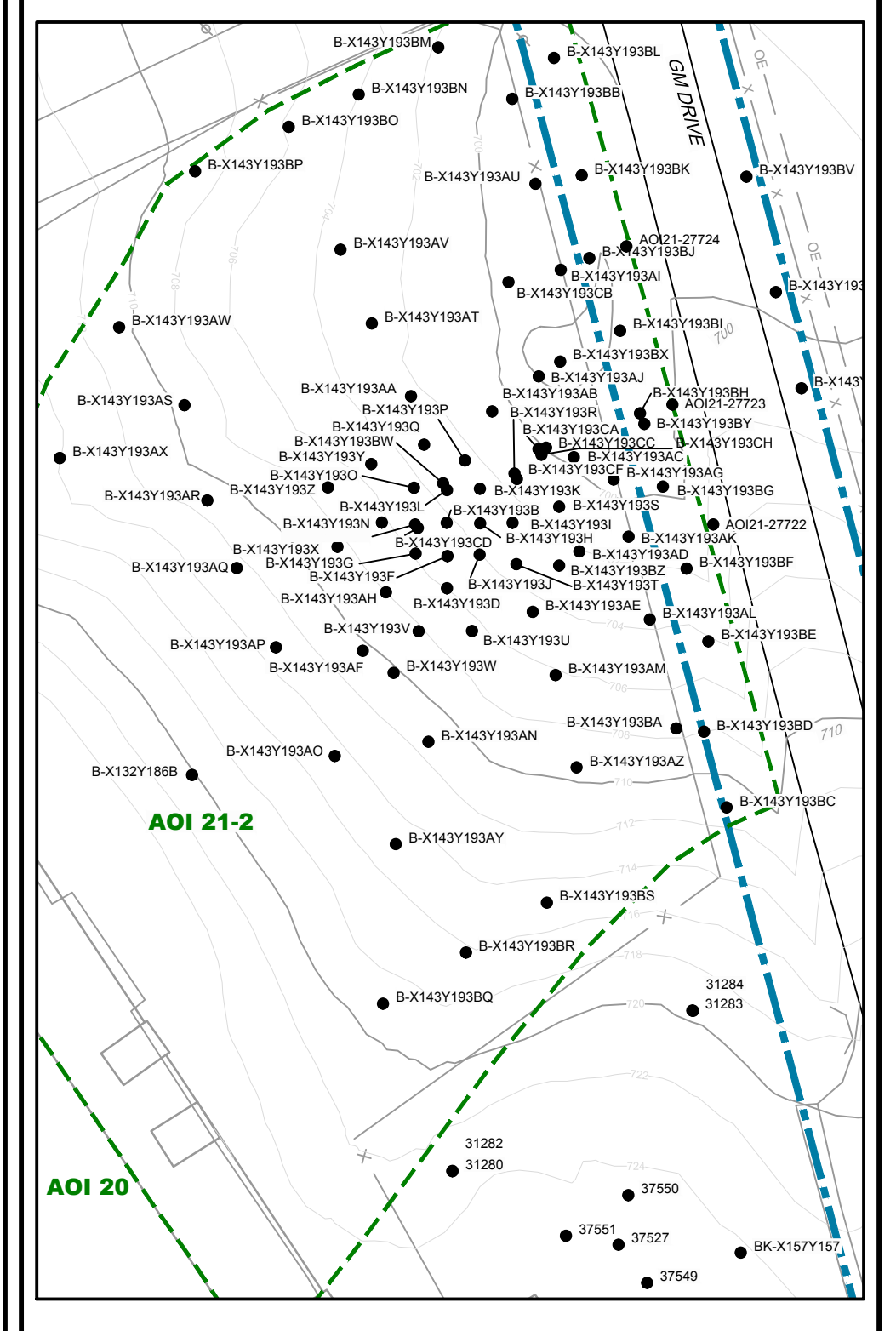
SAMPLE LOCATION IDENTIFIER

AOI 5
AOI 7
AOI 20

DATE SAMPLE TAKEN
SAMPLE DEPTH IN FEET BELOW GROUND SURFACE
CONCENTRATION
CHEMICAL NAME

2/27/13 PARENT SAMPLE VALUE/DUPLICATE SAMPLE VALUE
ND NOT DETECTED
J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY
U NOT PRESENT AT OR ABOVE THE ASSOCIATED VALUE
UJ NOT PRESENT AT OR ABOVE THE ASSOCIATED ESTIMATED REPORTING LIMIT

Chemical Name	Criteria (mg/kg)
Total PCBs	7.44E+00



SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

**GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

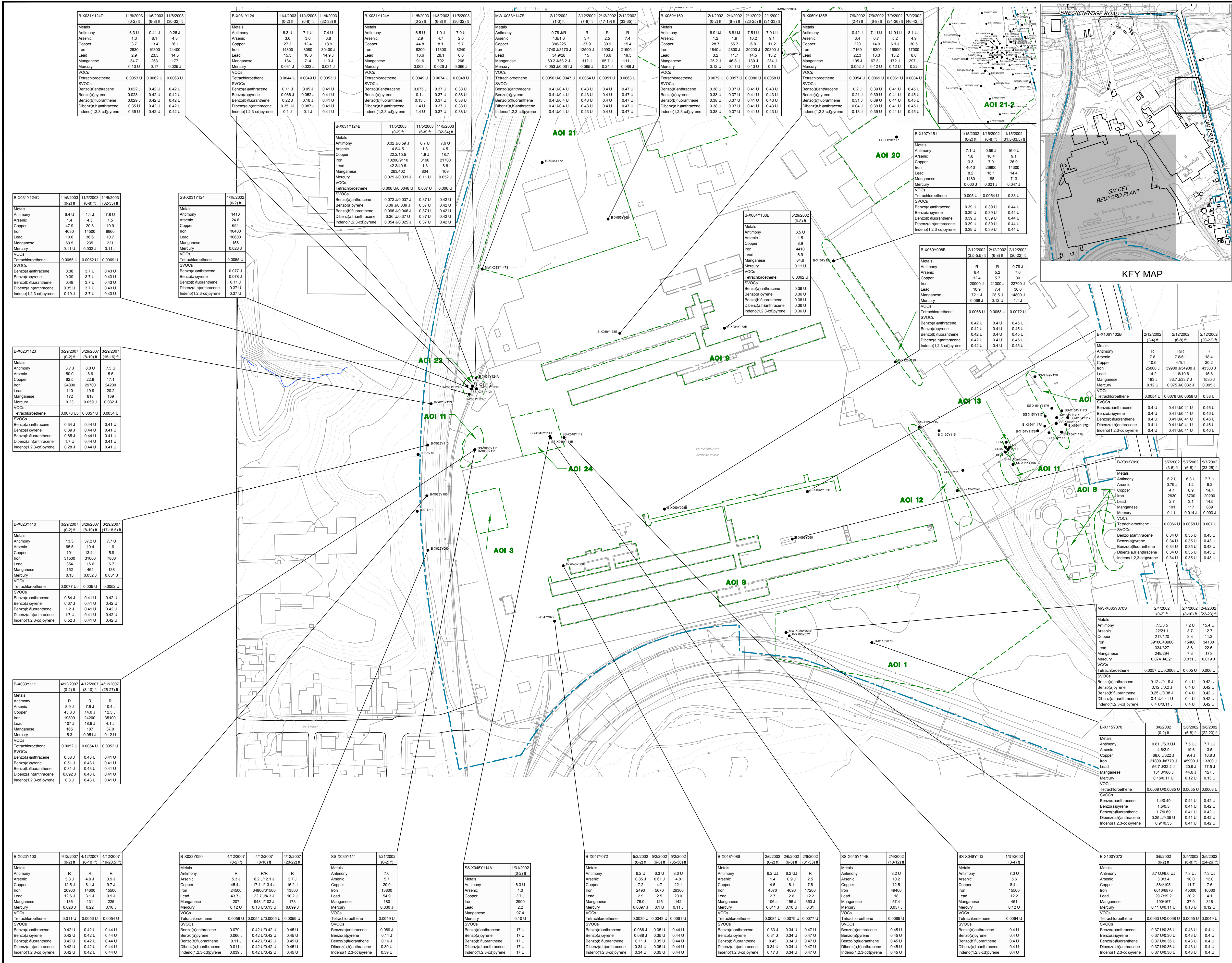
CONSTRUCTION CERTIFICATION REPORT, WEST PLANT AREA RCRA CA 1M

**ANALYTICAL DATA - PCBs
WEST PLANT AREA**

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001 AND CRA SURVEYS 2002 - 2013

Project Manager: J.M.	Reviewed By: S.G.	Date: MAY 2007
Scale: AS SHOWN	Project No.:	Report No.:
	13968-00	302
		Drawing No.:
		A 1.4



LEGEND

- AOI BOUNDARY
- APPROXIMATE PARCEL LIMIT
- APPROXIMATE GM PROPERTY BOUNDARY
- STREAMS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- SOIL SAMPLE LOCATION

SAMPLE LOCATION IDENTIFIER

DATE SAMPLE TAKEN
SAMPLE DEPTH IN FEET BELOW GROUND SURFACE
CONCENTRATION

CHEMICAL NAME

PARENT SAMPLE VALUE/DUPLICATE SAMPLE VALUE
THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY
REJECTED
NOT PRESENT AT OR ABOVE THE ASSOCIATED VALUE
NOT PRESENT AT OR ABOVE THE ASSOCIATED ESTIMATED REPORTING LIMIT

Chemical Name	Criteria (mg/kg)
Metals	
Antimony	4.09E+02
Arsenic	1.59E+01
Copper	4.09E+04
Iron	3.06E+05
Lead	8.00E+02
Manganese	1.95E+04
Mercury	1.36E+01
VOAs	
Indeno(1,2,3-cd)pyrene	2.11E+01
Benzo(b)fluoranthene	2.11E+01
Benzo(a)pyrene	2.11E+00
Dibenzo(a,h)anthracene	2.11E+00
Benzo(a)anthracene	2.11E+01
VOAs	
Tetrachloroethene	1.31E+01

1. THE ABOVE CHEMICAL LIST CONTAINS ONLY CONSTITUENTS THAT HAVE SITE-RELATED SOIL CONCENTRATIONS EXCEEDING REGION 9 RESIDENTIAL PRGS (2004) AT A TARGET CANCER RISK OF 10⁻⁶ AND NONCANCER HQ OF 1 IN THE WEST PLANT AREA

2. THE ABOVE CRITERIA ARE BASED ON THE REGION 9 PRGS FOR INDUSTRIAL SOIL AND WERE CALCULATED USING A TARGET CANCER RISK OF 10⁻⁶ AND NONCANCER HQ OF 1. THE SCREENING CRITERIA FOR MERCURY WAS CALCULATED BY ENVIRON TO ACCOUNT FOR VOLATILIZATION TO AMBIENT AIR USING EPA REGION 9 EQUATIONS, RfC FROM IRIS, AND CHEMICAL PROPERTIES FROM EPA'S SOIL SCREENING GUIDANCE. SITE-RELATED CONCENTRATIONS HIGHER THAN THESE CRITERIA ARE HIGHLIGHTED IN YELLOW AND FOLLOWED BY (A).

AOI SUMMARY

AOI ID	Description
AOI 2	Waste Storage Area
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SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

GM CET BEDFORD FACILITY BEDFORD, INDIANA

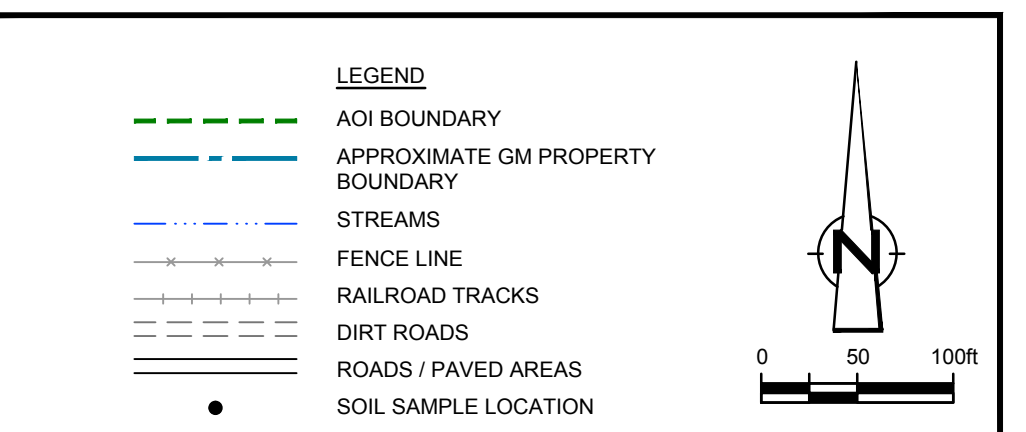
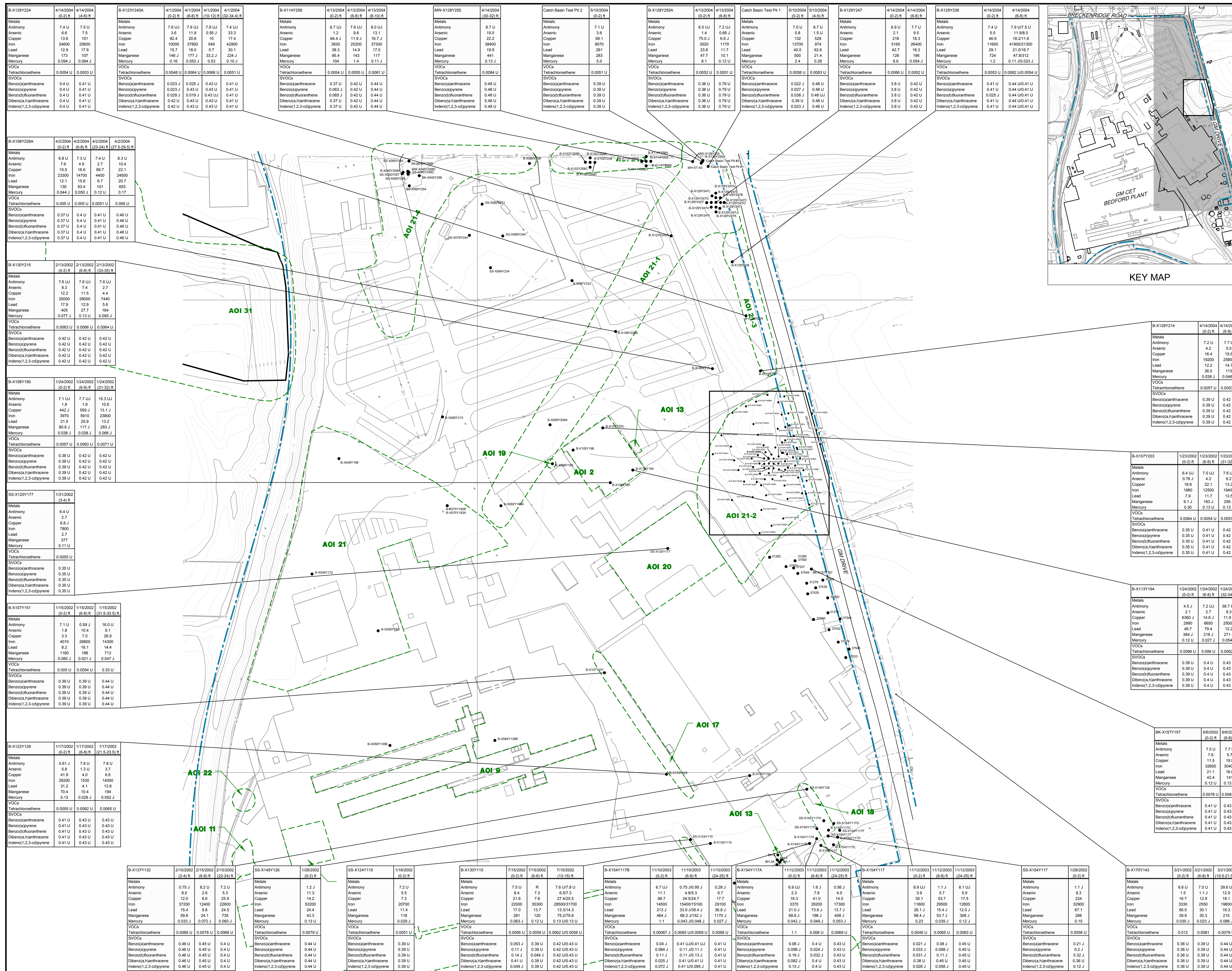
CONSTRUCTION CERTIFICATION REPORT, WEST PLANT AREA RCRA CA 1M

ANALYTICAL DATA - NON-PCBS WEST PLANT AREA

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001
AND CRA SURVEYS 2002 - 2013

Project Manager:	Reviewed By:	Date:
J.M.	S.G.	APRIL 2007
Scale:	Project No.:	Report No.:
AS SHOWN	13968-00	302
		Drawing No.:
		A 2.2



SAMPLE LOCATION IDENTIFIER

SS-X154Y17	1/28/2002	DATE SAMPLE TAKEN
Metals	(0-2) ft	SAMPLE DEPTH IN FEET BELOW GROUND SURFACE
Antimony	1.1 J	CONCENTRATION
Arsenic	8.3	CHEMICAL NAME

1.51/1.18 PARENT SAMPLE VALUE/DUPLICATE SAMPLE VALUE
 J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY
 U NOT PRESENT AT OR ABOVE THE ASSOCIATED VALUE
 UJ NOT PRESENT AT OR ABOVE THE ASSOCIATED ESTIMATED REPORTING LIMIT

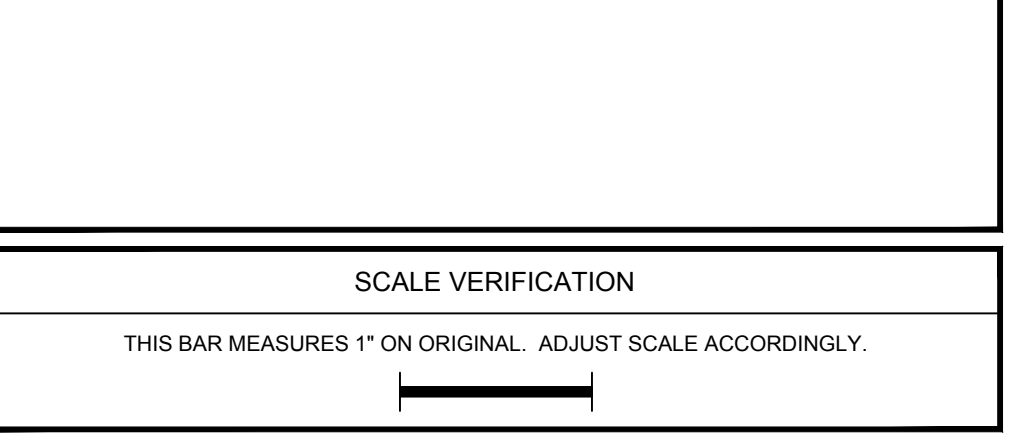
Chemical Name	Criteria (mg/kg)
Metals	
Antimony	4.09E+02
Arsenic	1.59E+01
Copper	4.09E+04
Iron	3.06E+05
Lead	8.00E+02
Manganese	1.95E+04
Mercury	1.36E+01
SVOCs	
Indeno(1,2,3-cd)pyrene	2.11E+01
Benzo(b)fluoranthene	2.11E+01
Benzo(a)pyrene	2.11E+00
Dibenz(a,h)anthracene	2.11E+00
Benzo(a)anthracene	2.11E+01
VOAs	
Tetrachloroethene	1.31E+01

1. THE CHEMICAL LIST CONTAINS ONLY CONSTITUENTS THAT HAVE SITE-RELATED SOIL CONCENTRATIONS EXCEEDING REGION 9 RESIDENTIAL PRGS (2004) AT A TARGET CANCER RISK OF 10⁻⁶ AND NONCANCER HQ OF 1 IN THE WEST PLANT AREA

2. THE ABOVE CRITERIA ARE BASED ON THE REGION 9 PRGS FOR INDUSTRIAL SOIL AND WERE CALCULATED USING A TARGET CANCER RISK OF 10⁻⁶ AND NONCANCER HQ OF 1. THE SCREENING CRITERIA FOR MERCURY WAS CALCULATED BY ENVIRON TO ACCOUNT FOR VOLATILIZATION TO AMBIENT AIR USING EPA REGION 9 EQUATIONS, R/C FROM IRIS, AND CHEMICAL PROPERTIES FROM EPA'S SOIL SCREENING GUIDANCE. SITE-RELATED CONCENTRATIONS HIGHER THAN THESE CRITERIA ARE HIGHLIGHTED IN YELLOW AND FOLLOWED BY (A).

AOI SUMMARY

AOI ID	Description
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AOI 16	Former Drainage Valley North of Die Cast Building
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**GM CET BEDFORD FACILITY
 BEDFORD, INDIANA**

CONSTRUCTION CERTIFICATION REPORT, WEST PLANT AREA RCRA/CA/M

**ANALYTICAL DATA - NON-PCBS
 WEST PLANT AREA**

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001
 AND CRA SURVEYS 2002 - 2013

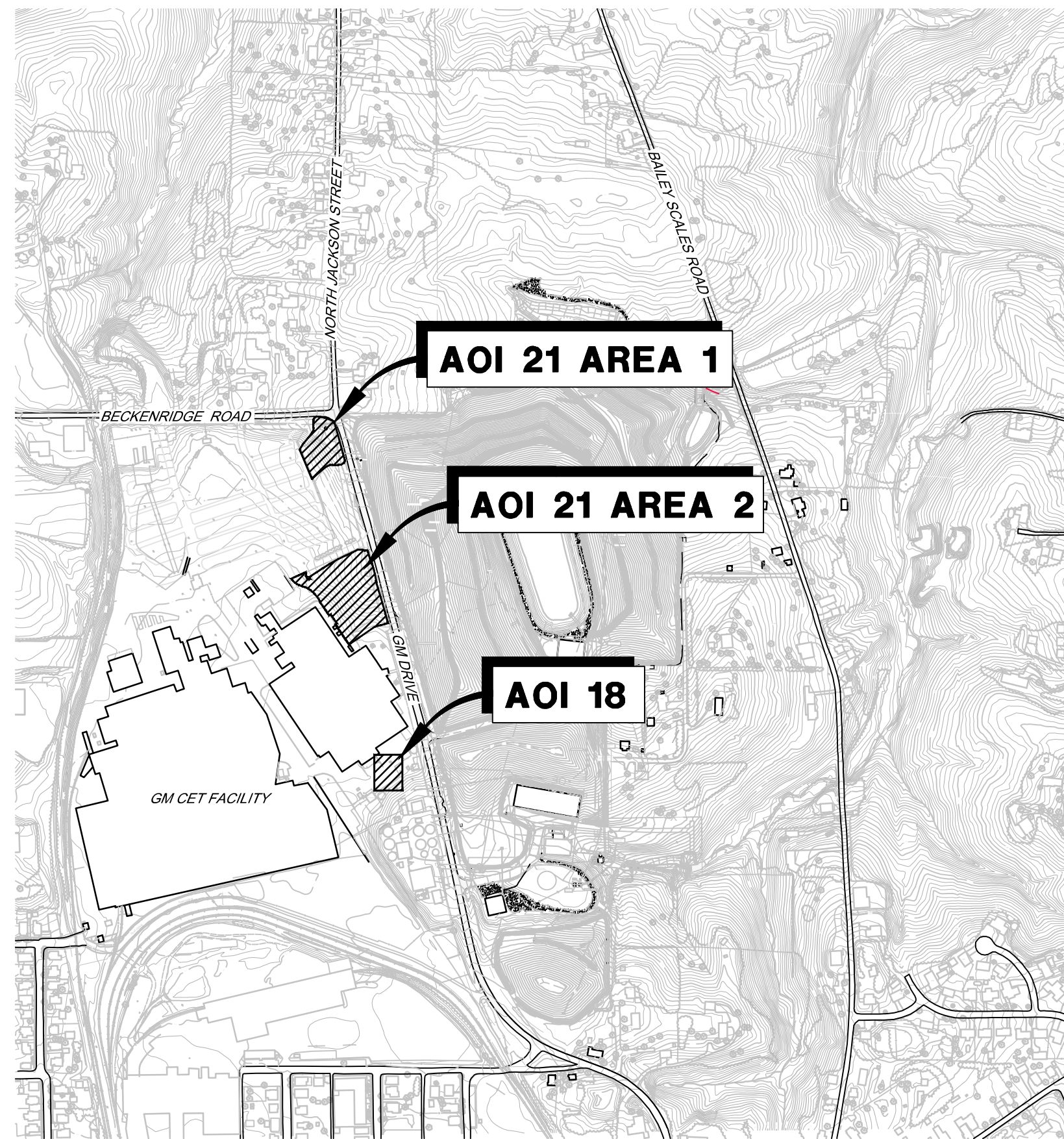
Project Manager:	Reviewed By:	Date:
J.M.	S.G.	APRIL 2007

Scale:	Project No.:	Report No.:	Drawing No.:
AS SHOWN	13968-00	302	A 2.3

Appendix B

Record Drawings Including:

- C-01 AOI 21 Area 2 Excavation of PCBs ≥ 50 mg/kg 0 to 2 feet bgs
- C-02 AOI 21 Area 2 Excavation of PCBs ≥ 50 mg/kg 2 to 4 feet bgs
- C-03 AOI 21 Area 2 Excavation of PCBs ≥ 50 mg/kg 4 to 6 feet bgs
- C-04 AOI 21 Area 2 Excavation of PCBs ≥ 50 mg/kg 6 to 8 feet bgs
- C-05 AOI 21 Area 2 Excavation of PCBs ≥ 50 mg/kg 8 to 10 feet bgs
- C-06 AOI 21 Area 2 Excavation of PCBs ≥ 50 mg/kg 10 to 12 feet bgs
- C-07 AOI 21 Area 2 Excavation of PCBs ≥ 50 mg/kg 12 to 14 feet bgs
- C-08 AOI 21 Area 2 Excavation of PCBs ≥ 50 mg/kg 14 to 16 feet bgs
- C-09 AOI 21 Area 2 Excavation of PCBs ≥ 50 mg/kg 16 to 18 feet bgs
- C-10 AOI 21 Area 2 Excavation of PCBs ≥ 50 mg/kg 18 to 20 feet bgs
- C-11 AOI 21 Area 2 Excavation of PCBs ≥ 50 mg/kg 20 to 22 feet bgs
- C-12 AOI 21 Area 2 Excavation Backfill Contour Plan
- C-13 Parking Lot Layout – As-Built Subgrade Contour Plan
- C-14 Parking Lot Layout – As-Built Subgrade/Fill Elevation Plan
- C-15 Parking Lot Layout – As-Built 60-MIL LLDPE Liner Panel Layout
- C-16 Parking Lot Layout – As-Built Storm Sewer Plan and Profile Sheet 1 of 3
- C-17 Parking Lot Layout – As-Built Storm Sewer Plan and Profile Sheet 2 of 3
- C-18 Parking Lot Layout – As-Built Storm Sewer Plan and Profile Sheet 3 of 3
- C-19 Parking Lot Layout – As-Built Final Contour Plan
- C-20 Details and Cross-Section
- C-21 AOI 21 Area 1 Excavation of PCBs ≥ 50 mg/kg Topography and Sewer Abandonment
- C-22 AOI 21 Area 1 Final Restoration
- C-23 AOI 18 Excavation of PCBs ≥ 50 mg/kg Topography
- C-24 AOI 18 Final Restoration



KEY MAP

DRAWING INDEX

DWG. No.	REV. No.	DATE	TITLE
C-01	0	NOVEMBER 2014	AOI 21 AREA 2 EXCAVATION OF PCBs ≥ 50 mg/kg 0 TO 2 FEET BGS
C-02	0	NOVEMBER 2014	AOI 21 AREA 2 EXCAVATION OF PCBs ≥ 50 mg/kg 2 TO 4 FEET BGS
C-03	0	NOVEMBER 2014	AOI 21 AREA 2 EXCAVATION OF PCBs ≥ 50 mg/kg 4 TO 6 FEET BGS
C-04	0	NOVEMBER 2014	AOI 21 AREA 2 EXCAVATION OF PCBs ≥ 50 mg/kg 6 TO 8 FEET BGS
C-05	0	NOVEMBER 2014	AOI 21 AREA 2 EXCAVATION OF PCBs ≥ 50 mg/kg 8 TO 10 FEET BGS
C-06	0	NOVEMBER 2014	AOI 21 AREA 2 EXCAVATION OF PCBs ≥ 50 mg/kg 10 TO 12 FEET BGS
C-07	0	NOVEMBER 2014	AOI 21 AREA 2 EXCAVATION OF PCBs ≥ 50 mg/kg 12 TO 14 FEET BGS
C-08	0	NOVEMBER 2014	AOI 21 AREA 2 EXCAVATION OF PCBs ≥ 50 mg/kg 14 TO 16 FEET BGS
C-09	0	NOVEMBER 2014	AOI 21 AREA 2 EXCAVATION OF PCBs ≥ 50 mg/kg 16 TO 18 FEET BGS
C-10	0	NOVEMBER 2014	AOI 21 AREA 2 EXCAVATION OF PCBs ≥ 50 mg/kg 18 TO 20 FEET BGS
C-11	0	NOVEMBER 2014	AOI 21 AREA 2 EXCAVATION OF PCBs ≥ 50 mg/kg 20 TO 22 FEET BGS
C-12	0	NOVEMBER 2014	AOI 21 AREA 2 EXCAVATION BACKFILL CONTOUR PLAN
C-13	0	NOVEMBER 2014	PARKING LOT LAYOUT - AS-BUILT SUBGRADE CONTOUR PLAN
C-14	0	NOVEMBER 2014	PARKING LOT LAYOUT - AS BUILT SUBGRADE/FILL ELEVATION PLAN
C-15	0	NOVEMBER 2014	PARKING LOT LAYOUT - AS-BUILT 60-MIL LLDPE LINER PANEL LAYOUT
C-16	0	NOVEMBER 2014	PARKING LOT LAYOUT - AS-BUILT STORM SEWER PLAN AND PROFILE SHEET 1 OF 3
C-17	0	NOVEMBER 2014	PARKING LOT LAYOUT - AS-BUILT STORM SEWER PLAN AND PROFILE SHEET 2 OF 3
C-18	0	NOVEMBER 2014	PARKING LOT LAYOUT - AS-BUILT STORM SEWER PLAN AND PROFILE SHEET 3 OF 3
C-19	0	NOVEMBER 2014	PARKING LOT LAYOUT - AS-BUILT FINAL CONTOUR PLAN
C-20	0	NOVEMBER 2014	DETAILS AND CROSS-SECTION
C-21	0	NOVEMBER 2014	AOI 21 AREA 1 EXCAVATION OF PCBs ≥ 50 mg/kg TOPOGRAPHY AND SEWER ABANDONMENT
C-22	0	NOVEMBER 2014	AOI 21 AREA 1 FINAL RESTORATION
C-23	0	NOVEMBER 2014	AOI 18 EXCAVATION OF PCBs ≥ 50 mg/kg TOPOGRAPHY
C-24	0	NOVEMBER 2014	AOI 18 FINAL RESTORATION

RECORD DRAWINGS NOVEMBER 11, 2014

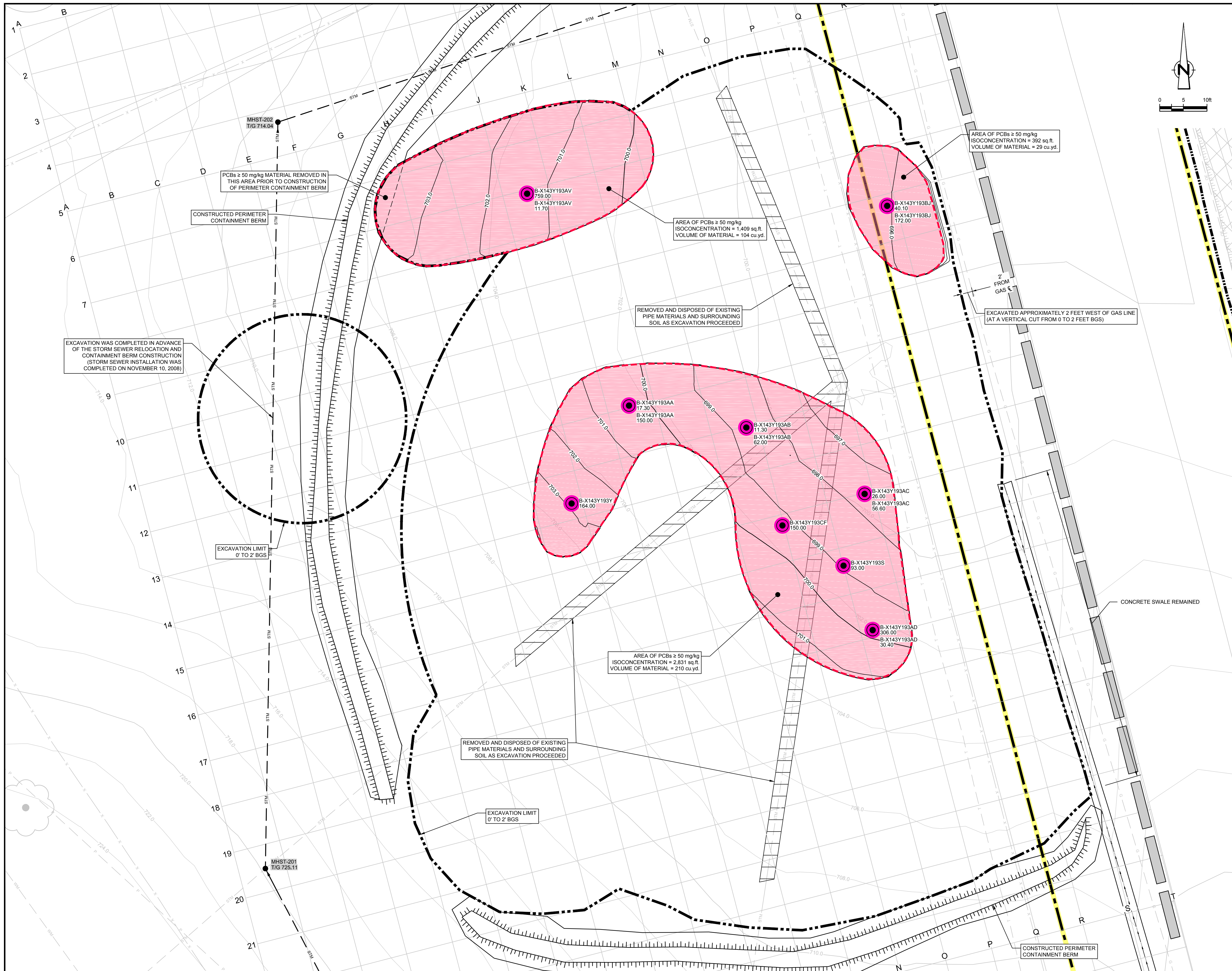
CONSTRUCTION CERTIFICATION REPORT WEST PLANT AREA RESOURCE CONSERVATION AND RECOVERY ACT CORRECTIVE ACTION INTERIM MEASURES

GM CET BEDFORD FACILITY BEDFORD, INDIANA



CONESTOGA-ROVERS & ASSOCIATES

RECORD DRAWINGS
THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THIS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.



No	Revision	Date	Initial

- ### LEGEND
- 610 — GROUND SURFACE
 - — — — — APPROXIMATE GM PROPERTY BOUNDARY
 - - - - TELEPHONE LINE (APPROXIMATE)
 - - - - GAS LINE (APPROXIMATE)
 - - - - STM STORM SEWER (GM HISTORICAL DRAWING)
 - - - - P PROCESS SEWER (GM HISTORICAL DRAWING)
 - - - - EAST PLANT COVER LIMIT
 - - - - 700.0 EXCAVATION CONTOURS
 - - - - EXCAVATION BOUNDARY OVER 50ppm MATERIAL AT 0 TO 2 FEET BGS
 - - - - EXCAVATION LIMIT AT 0 TO 2 FEET BGS
 - - - - STM AS-BUILT STORM SEWER
 - MHST-201 AS-BUILT STORM MAINTENANCE HOLE STRUCTURE
 - B-X143Y193CF BOREHOLE IDENTIFICATION PCB CONCENTRATION (ppm)
 - COLLECTED SAMPLE WITH TOTAL PCBs EQUAL TO OR GREATER THAN 50 ppm

RECORD DRAWINGS

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH

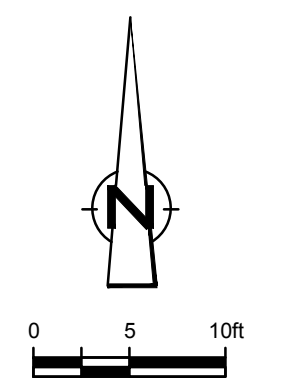
GM CET BEDFORD FACILITY
BEDFORD, INDIANA
 CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA
AOI 21 AREA 2 EXCAVATION OF
PCBs ≥ 50 mg/kg 0 TO 2 FEET BGS



Source Reference:

BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: 1" = 10'	Project No: 13968-00	Report No: 302
		Drawing No: C-01



NO	Revision	Date	Initial

LEGEND

- 610 — GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- — — — — APPROXIMATE GM PROPERTY BOUNDARY
- - - - - TELEPHONE LINE (APPROXIMATE)
- - - - - GAS LINE (APPROXIMATE)
- - - - - STORM SEWER (GM HISTORICAL DRAWING)
- - - - - PROCESS SEWER (GM HISTORICAL DRAWING)
- — — — — EAST PLANT COVER LIMIT
- 695.0 — EXCAVATION CONTOURS
- - - - - EXCAVATION BOUNDARY OVER 50ppm MATERIAL AT 2 TO 4 FEET BGS
- - - - - EXCAVATION LIMIT AT 2 TO 4 FEET BGS
- — — — — INACCESSIBLE AREA OF ≥ 50 mg/kg (MATERIAL NOT EXCAVATED)
- - - - - AS-BUILT STORM SEWER
- MHST-201 AS-BUILT STORM MAINTENANCE HOLE STRUCTURE
- B-X143Y193AC BOREHOLE IDENTIFICATION PCB CONCENTRATION (ppm)
- COLLECTED SAMPLE WITH TOTAL PCBs EQUAL TO OR GREATER THAN 50 ppm

RECORD DRAWINGS

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved _____

DRAWING STATUS

Date	By	Initial

AS-RECORDED - ISSUED FOR EPA REVIEW NOV. 11, 2014 CRH

Status	Date	Initial

**GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA

AOI 21 AREA 2 EXCAVATION OF
PCBs ≥ 50 mg/kg 2 TO 4 FEET BGS

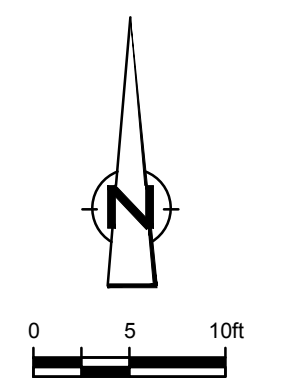
CRA CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager:	Reviewed By:	Date:
J.M.	C.R.H.	SEPTEMBER 2014

Scale:	Project No.:	Report No.:	Drawing No.:
1" = 10'	13968-00	302	C-02

13968-00(302)CI-WA007 NOV 11/2014



NO	Revision	Date	Initial

LEGEND

- GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- APPROXIMATE GM PROPERTY BOUNDARY
- TELEPHONE LINE (APPROXIMATE)
- GAS LINE (APPROXIMATE)
- STORM SEWER (GM HISTORICAL DRAWING)
- PROCESS SEWER (GM HISTORICAL DRAWING)
- EAST PLANT COVER LIMIT
- EXCAVATION CONTOURS
- EXCAVATION BOUNDARY OVER 50ppm MATERIAL AT 4 TO 6 FEET BGS
- EXCAVATION LIMIT AT 4 TO 6 FEET BGS
- AS-BUILT STORM SEWER
- MHST-201 AS-BUILT STORM MAINTENANCE HOLE STRUCTURE
- B-X143Y193CF 537.00 BOREHOLE IDENTIFICATION PCB CONCENTRATION (ppm)
- COLLECTED SAMPLE WITH TOTAL PCBs EQUAL TO OR GREATER THAN 50 ppm

RECORD DRAWINGS
 THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

AS-RECORDED - ISSUED FOR EPA FOR REVIEW	NOV. 11, 2014	CRH
Status	Date	Initial

**GM CET BEDFORD FACILITY
 BEDFORD, INDIANA**

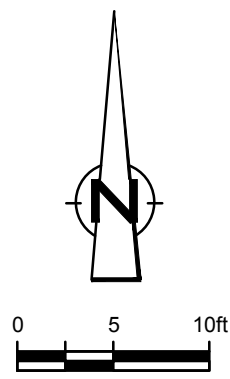
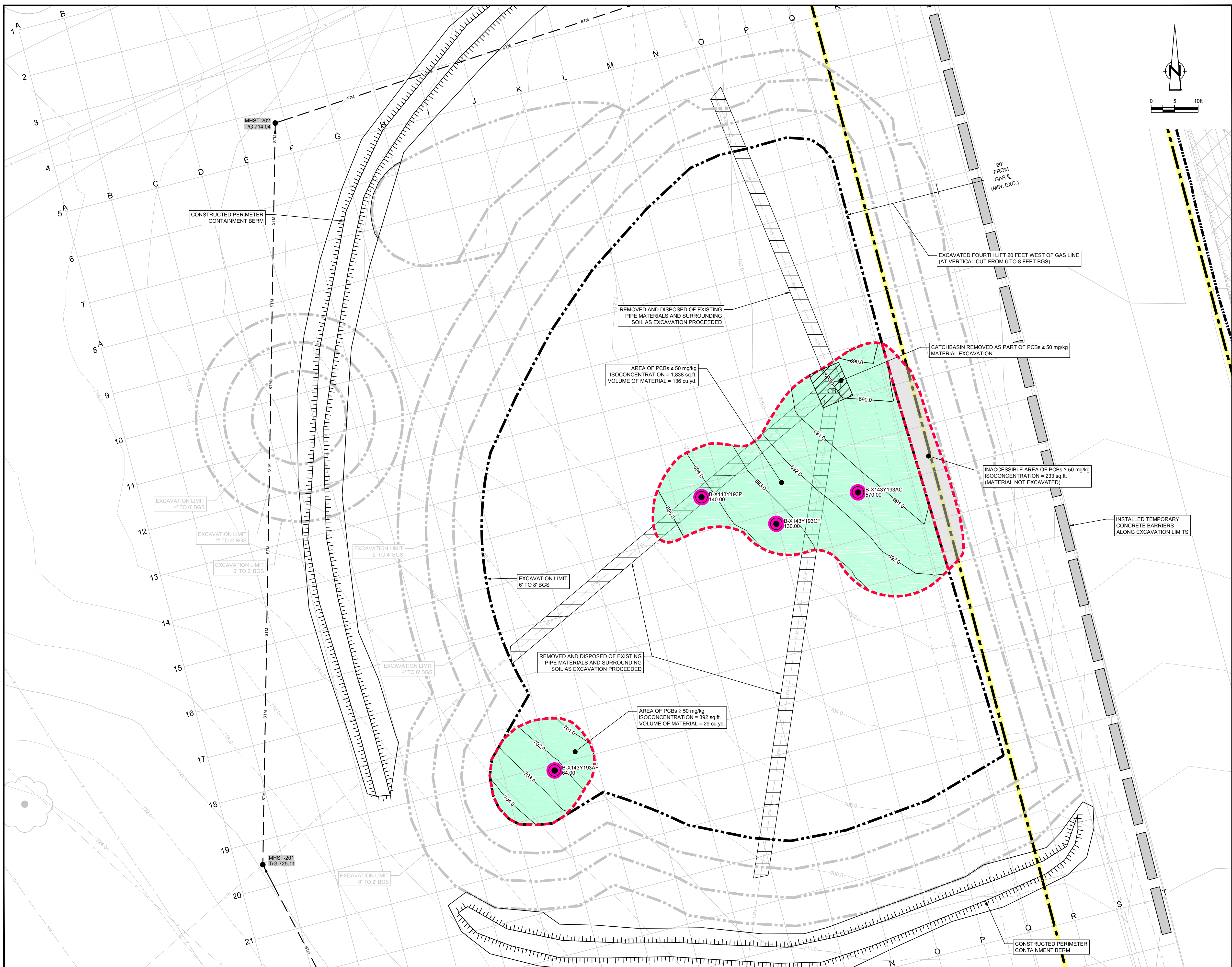
CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA

**AOI 21 AREA 2 EXCAVATION OF
 PCBs ≥ 50 mg/kg 4 TO 6 FEET BGS**

CRA CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: 1" = 10'	Project N°: 13968-00	Report N°: 302
	Drawing N°: C-03	



No.	Revision	Date	Initial

LEGEND	
	GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
	APPROXIMATE GM PROPERTY BOUNDARY
	TELEPHONE LINE (APPROXIMATE)
	GAS LINE (APPROXIMATE)
	STORM SEWER (GM HISTORICAL DRAWING)
	PROCESS SEWER (GM HISTORICAL DRAWING)
	EAST PLANT COVER LIMIT
	EXCAVATION CONTOURS
	EXCAVATION BOUNDARY OVER 50ppm MATERIAL AT 6 TO 8 FEET BGS
	EXCAVATION LIMIT AT 6 TO 8 FEET BGS
	INACCESSIBLE AREA OF ≥ 50 mg/kg (MATERIAL NOT EXCAVATED)
	AS-BUILT STORM SEWER
	AS-BUILT STORM MAINTENANCE HOLE STRUCTURE
	B-X143Y193CF BOREHOLE IDENTIFICATION PCB CONCENTRATION (ppm)
	COLLECTED SAMPLE WITH TOTAL PCBs EQUAL TO OR GREATER THAN 50 ppm

RECORD DRAWINGS
THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS, WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved: _____

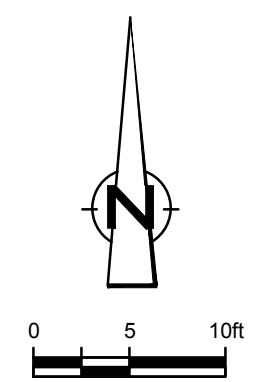
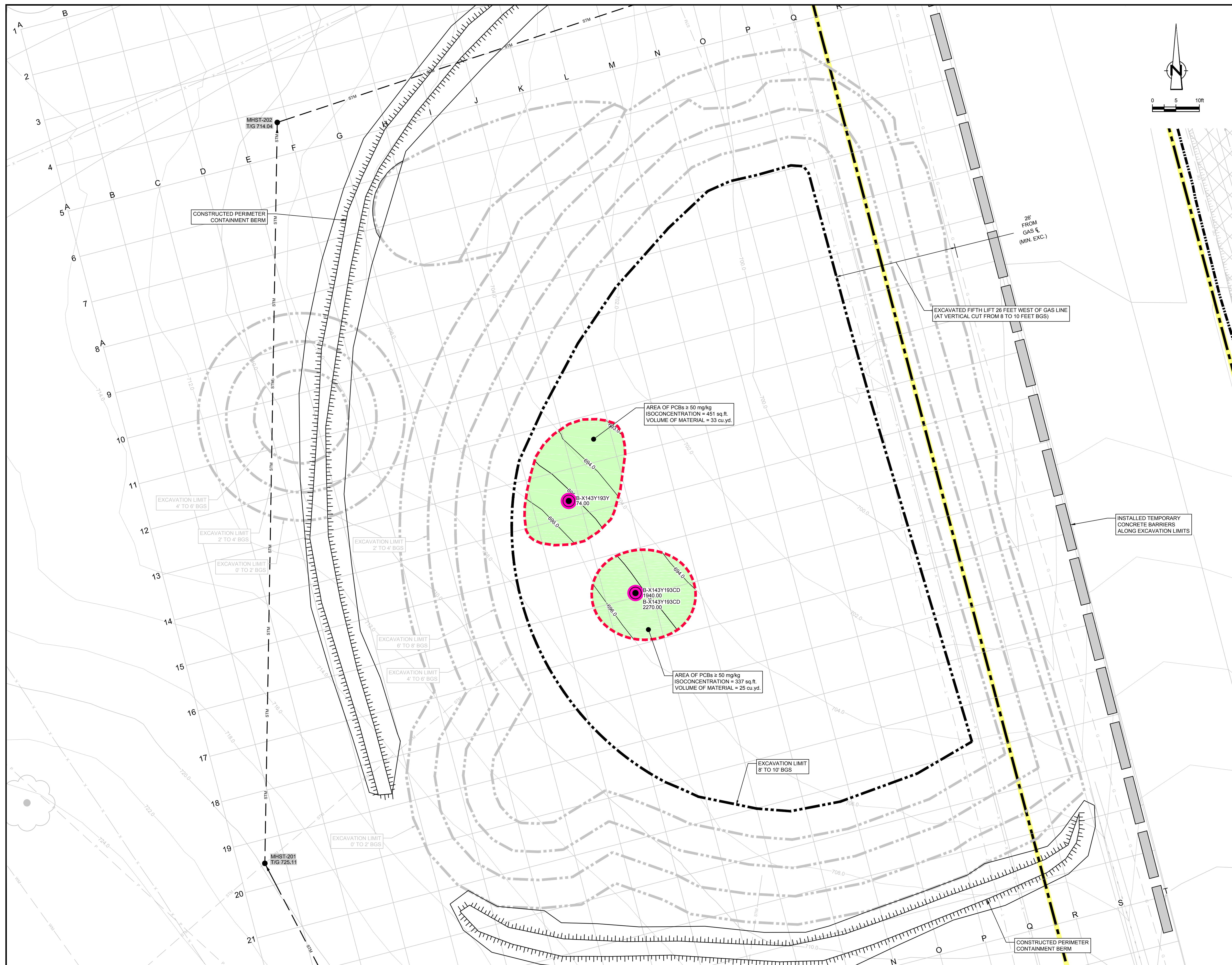
DRAWING STATUS		
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH
Status	Date	Initial

GM CET BEDFORD FACILITY
BEDFORD, INDIANA
CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA
AOI 21 AREA 2 EXCAVATION OF
PCBs ≥ 50 mg/kg 6 TO 8 FEET BGS

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: 1" = 10'	Project No.: 13968-00	Report No.: 302
	Drawing No.: C-04	



No	Revision	Date	Initial

LEGEND

- 010 — GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- — — — — TELEPHONE LINE (APPROXIMATE)
- — — — — GAS LINE (APPROXIMATE)
- — — — — STORM SEWER (GM HISTORICAL DRAWING)
- — — — — PROCESS SEWER (GM HISTORICAL DRAWING)
- — — — — EAST PLANT COVER LIMIT
- 695.0 — EXCAVATION CONTOURS
- — — — — EXCAVATION BOUNDARY OVER 50ppm MATERIAL AT 8 TO 10 FEET BGS
- — — — — EXCAVATION LIMIT AT 8 TO 10 FEET BGS
- STM — AS-BUILT STORM SEWER
- MHST-201 AS-BUILT STORM MAINTENANCE HOLE STRUCTURE
- B-X143Y193CF 150.00 BOREHOLE IDENTIFICATION PCB CONCENTRATION (ppm)
- COLLECTED SAMPLE WITH TOTAL PCBs EQUAL TO OR GREATER THAN 50 ppm

RECORD DRAWINGS
 THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved _____

DRAWING STATUS

Status	Date	Initial
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH

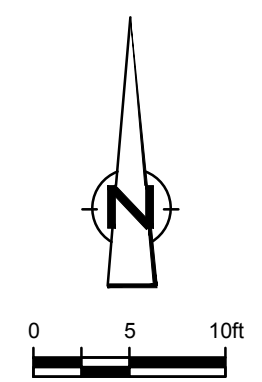
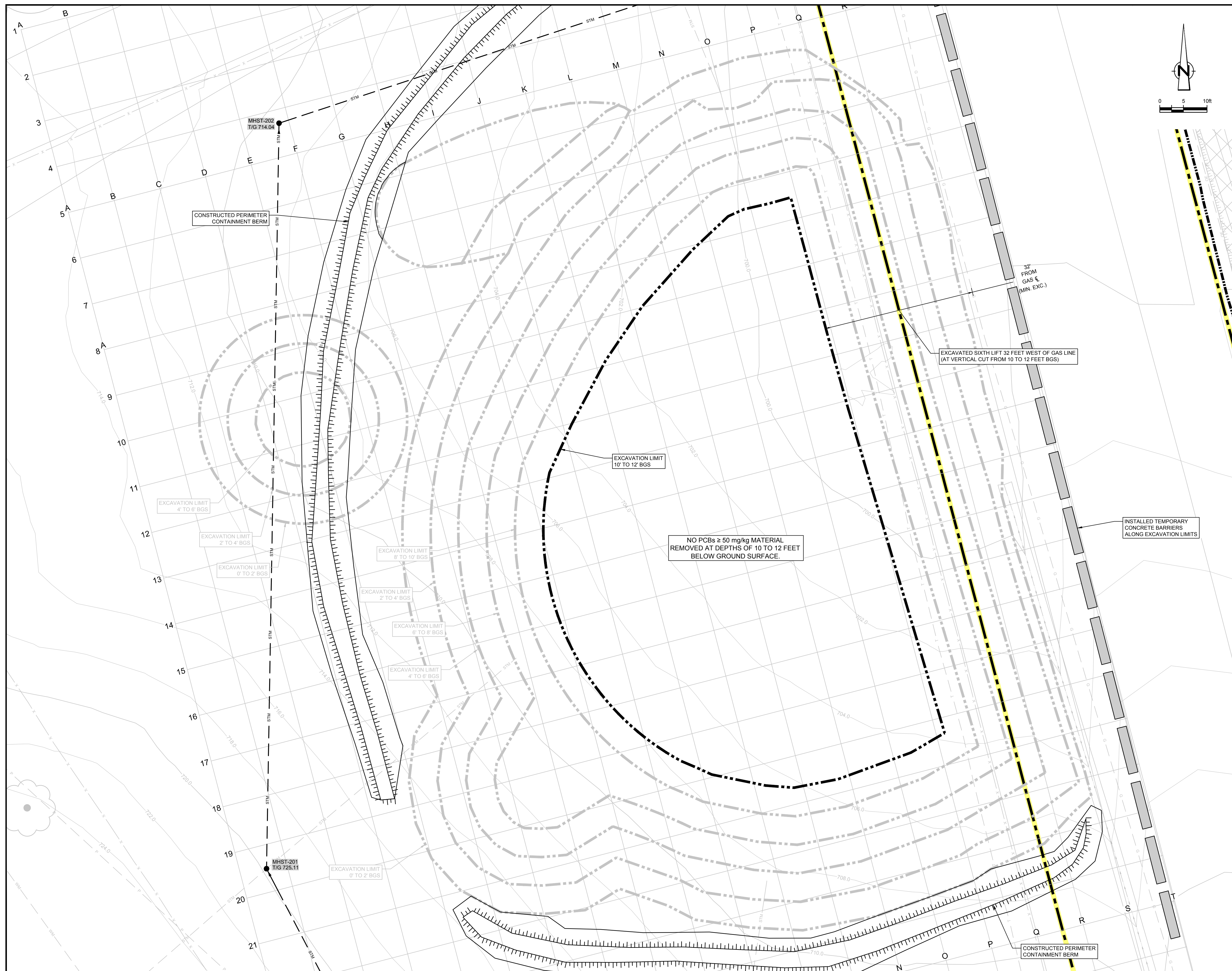
GM CET BEDFORD FACILITY
 BEDFORD, INDIANA
 CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA
 AOI 21 AREA 2 EXCAVATION OF
 PCBs ≥ 50 mg/kg 8 TO 10 FEET BGS

CRA CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: 1" = 10'	Project No: 13968-00	Report No: 302
	Drawing No: C-05	

13968-00(302)CI-WA010 NOV 11/2014



No	Revision	Date	Initial

LEGEND

- GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- APPROXIMATE GM PROPERTY BOUNDARY
- TELEPHONE LINE (APPROXIMATE)
- GAS LINE (APPROXIMATE)
- STORM SEWER (GM HISTORICAL DRAWING)
- PROCESS SEWER (GM HISTORICAL DRAWING)
- EAST PLANT COVER LIMIT
- EXCAVATION CONTOURS
- EXCAVATION BOUNDARY OVER 50ppm (NO OVER 50ppm MATERIAL AT 10 TO 12 FEET BGS)
- EXCAVATION LIMIT AT 10 TO 12 FEET BGS
- AS-BUILT STORM SEWER
- AS-BUILT STORM MAINTENANCE HOLE STRUCTURE

RECORD DRAWINGS
 THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved _____

DRAWING STATUS

Status	Date	Initial
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH

**GM CET BEDFORD FACILITY
 BEDFORD, INDIANA**

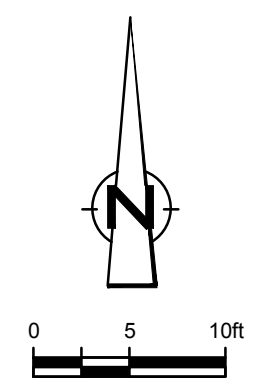
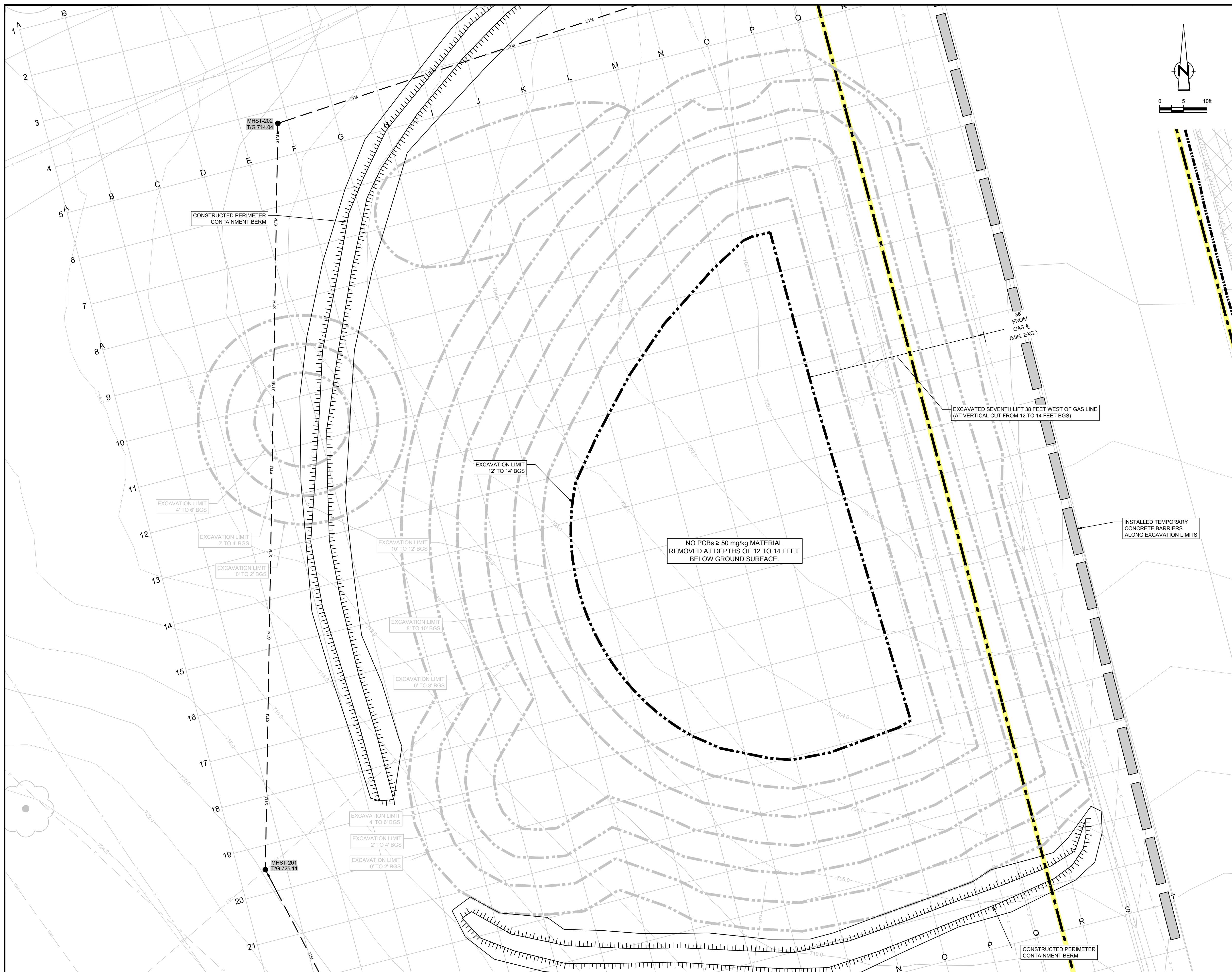
CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA

**AOI 21 AREA 2 EXCAVATION OF
 PCBs ≥ 50 mg/kg 10 TO 12 FEET BGS**

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: 1" = 10'	Project No: 13968-00	Report No: 302
		Drawing No: C-06



No	Revision	Date	Initial

LEGEND

- 610 GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- APPROXIMATE GM PROPERTY BOUNDARY
- TELEPHONE LINE (APPROXIMATE)
- GAS LINE (APPROXIMATE)
- STORM SEWER (GM HISTORICAL DRAWING)
- PROCESS SEWER (GM HISTORICAL DRAWING)
- EAST PLANT COVER LIMIT
- 695.0 EXCAVATION CONTOURS
- EXCAVATION BOUNDARY OVER 50ppm (NO OVER 50ppm MATERIAL AT 12 TO 14 FEET BGS)
- EXCAVATION LIMIT AT 12 TO 14 FEET BGS
- AS-BUILT STORM SEWER
- MHST-201 AS-BUILT STORM MAINTENANCE HOLE STRUCTURE

RECORD DRAWINGS
 THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved _____

DRAWING STATUS

Status	Date	Initial
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH

**GM CET BEDFORD FACILITY
 BEDFORD, INDIANA**

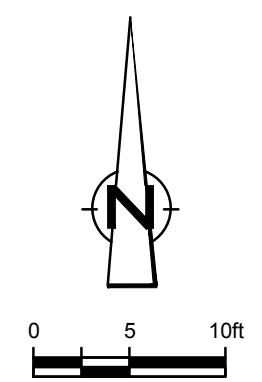
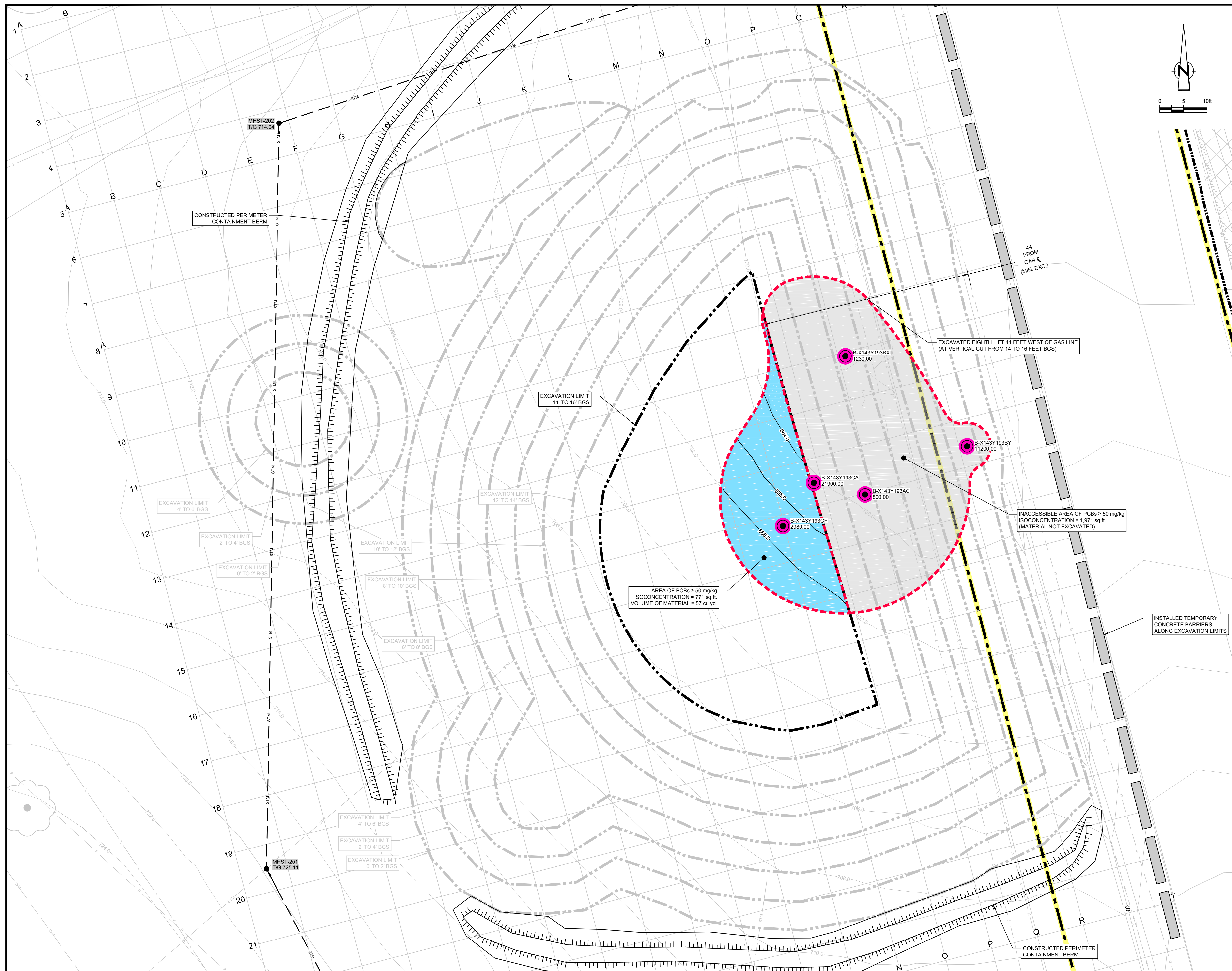
CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA

**AOI 21 AREA 2 EXCAVATION OF
 PCBs ≥ 50 mg/kg 12 TO 14 FEET BGS**

CRA CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: 1" = 10'	Project No: 13968-00	Report No: 302
	Drawing No: C-07	



No.	Revision	Date	Initial

LEGEND

- 610 --- GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- --- APPROXIMATE GM PROPERTY BOUNDARY
- --- TELEPHONE LINE (APPROXIMATE)
- --- GAS LINE (APPROXIMATE)
- --- STORM SEWER (GM HISTORICAL DRAWING)
- --- PROCESS SEWER (GM HISTORICAL DRAWING)
- --- EAST PLANT COVER LIMIT
- 685.0 --- EXCAVATION CONTOURS
- --- EXCAVATION BOUNDARY OVER 50ppm MATERIAL AT 14 TO 16 FEET BGS
- --- EXCAVATION LIMIT AT 14 TO 16 FEET BGS
- --- INACCESSIBLE AREA OF ≥ 50 mg/kg (MATERIAL NOT EXCAVATED)
- STM --- AS-BUILT STORM SEWER
- MHST-201 AS-BUILT STORM MAINTENANCE HOLE STRUCTURE
- B-X143Y193CF 150.00 BOREHOLE IDENTIFICATION PCB CONCENTRATION (ppm)
- COLLECTED SAMPLE WITH TOTAL PCBs EQUAL TO OR GREATER THAN 50 ppm

RECORD DRAWINGS
 THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved _____

DRAWING STATUS

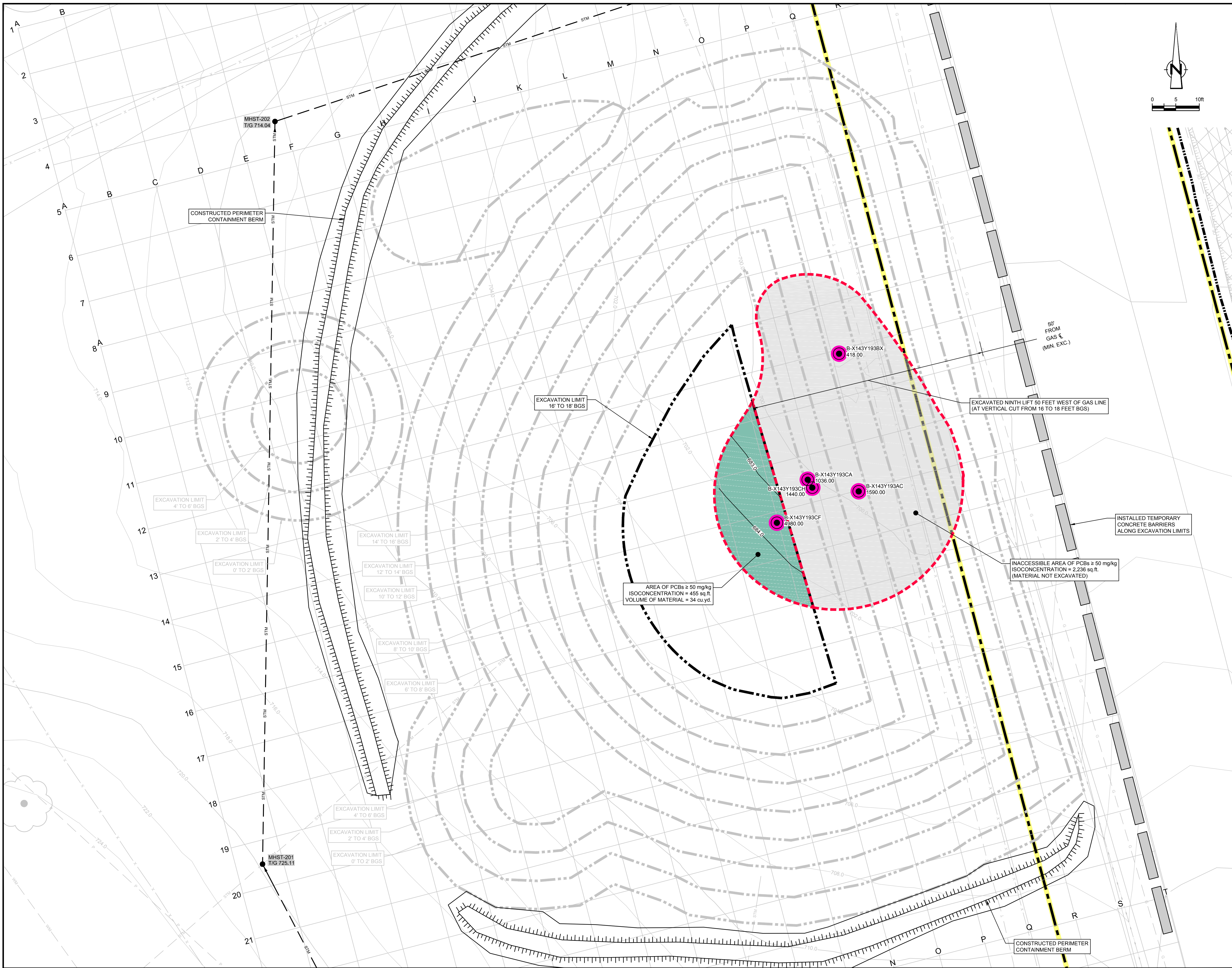
Status	Date	Initial
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH

**GM CET BEDFORD FACILITY
 BEDFORD, INDIANA**
 CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA
 AOI 21 AREA 2 EXCAVATION OF
 PCBs ≥ 50 mg/kg 14 TO 16 FEET BGS

CRA CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: 1" = 10'	Project No: 13968-00	Report No: 302
		Drawing No: C-08



NO	Revision	Date	Initial

LEGEND

	GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
	APPROXIMATE GM PROPERTY BOUNDARY
	TELEPHONE LINE (APPROXIMATE)
	GAS LINE (APPROXIMATE)
	STORM SEWER (GM HISTORICAL DRAWING)
	PROCESS SEWER (GM HISTORICAL DRAWING)
	EAST PLANT COVER LIMIT
	EXCAVATION CONTOURS
	EXCAVATION BOUNDARY OVER 50ppm MATERIAL AT 16 TO 18 FEET BGS
	EXCAVATION LIMIT AT 16 TO 18 FEET BGS
	INACCESSIBLE AREA OF > 50 mg/kg (MATERIAL NOT EXCAVATED)
	AS-BUILT STORM SEWER
	MHST-201 AS-BUILT STORM MAINTENANCE HOLE STRUCTURE
	B-X143Y193CF BOREHOLE IDENTIFICATION PCB CONCENTRATION (ppm)
	COLLECTED SAMPLE WITH TOTAL PCBs EQUAL TO OR GREATER THAN 50 ppm

RECORD DRAWINGS
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SCALE VERIFICATION
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved _____

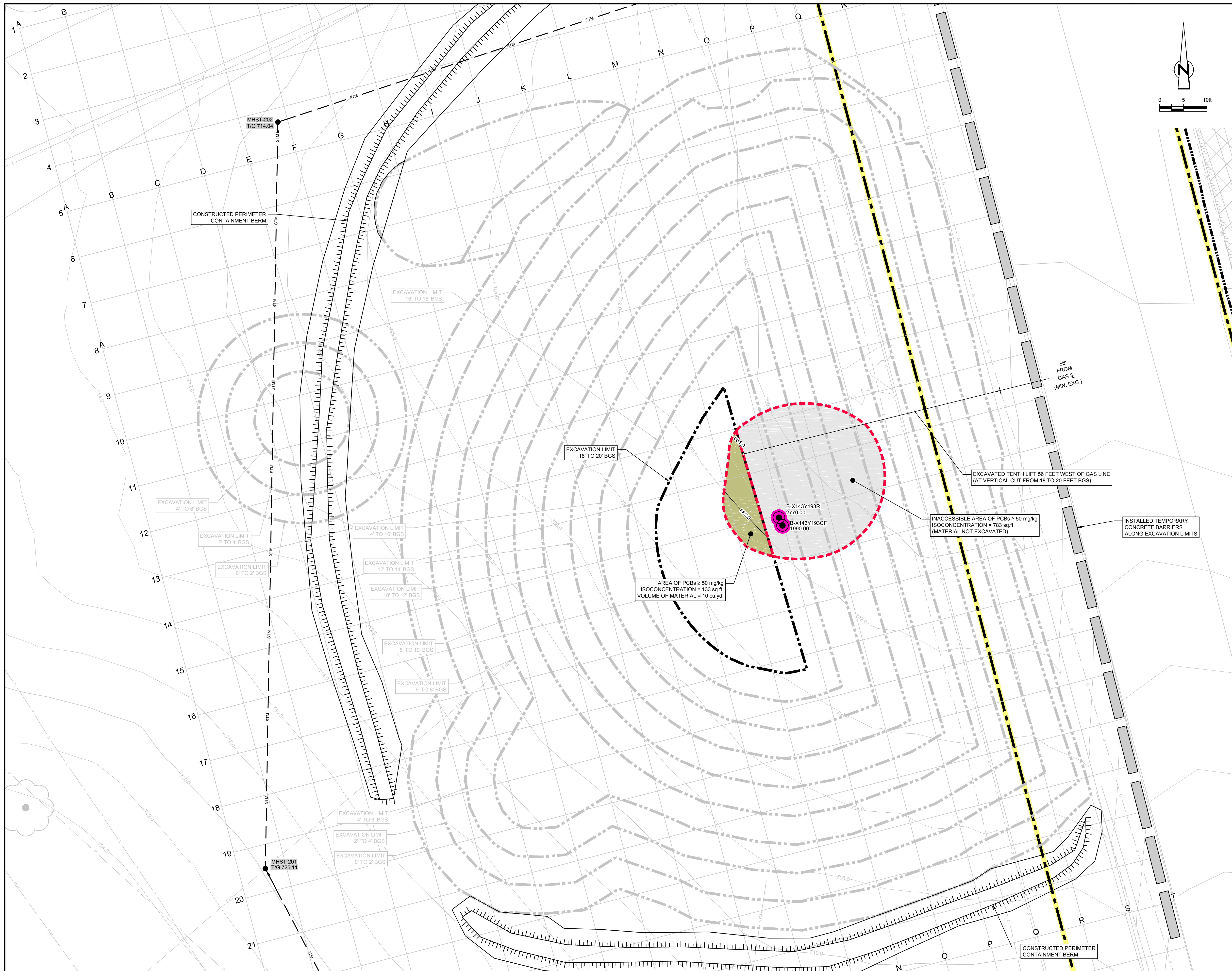
DRAWING STATUS		
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH
Status	Date	Initial

**GM CET BEDFORD FACILITY
 BEDFORD, INDIANA**
 CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA
 AOI 21 AREA 2 EXCAVATION OF
 PCBs > 50 mg/kg 16 TO 18 FEET BGS

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: 1" = 10'	Project No: 13968-00	Report No: 302
		Drawing No: C-09



No.	Revision	Date	Initial

LEGEND

- 610 GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- APPROXIMATE GM PROPERTY BOUNDARY
- TELEPHONE LINE (APPROXIMATE)
- GAS LINE (APPROXIMATE)
- STORM SEWER (GM HISTORICAL DRAWING)
- PROCESS SEWER (GM HISTORICAL DRAWING)
- EAST PLANT COVER LIMIT
- EXCAVATION CONTOURS
- EXCAVATION BOUNDARY OVER 50ppm MATERIAL AT 18 TO 20 FEET BGS
- EXCAVATION LIMIT AT 18 TO 20 FEET BGS
- INACCESSIBLE AREA OF >= 50 mg/kg (MATERIAL NOT EXCAVATED)
- AS-BUILT STORM SEWER
- MHST-201 AS-BUILT STORM MAINTENANCE HOLE STRUCTURE
- B-X143Y193CF BOREHOLE IDENTIFICATION PCB CONCENTRATION (ppm)
- COLLECTED SAMPLE WITH TOTAL PCBs EQUAL TO OR GREATER THAN 50 ppm

RECORD DRAWINGS
 THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved _____

DRAWING STATUS

Status	Date	Initial
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH

**GM CET BEDFORD FACILITY
 BEDFORD, INDIANA**

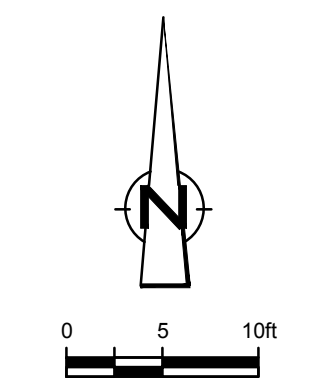
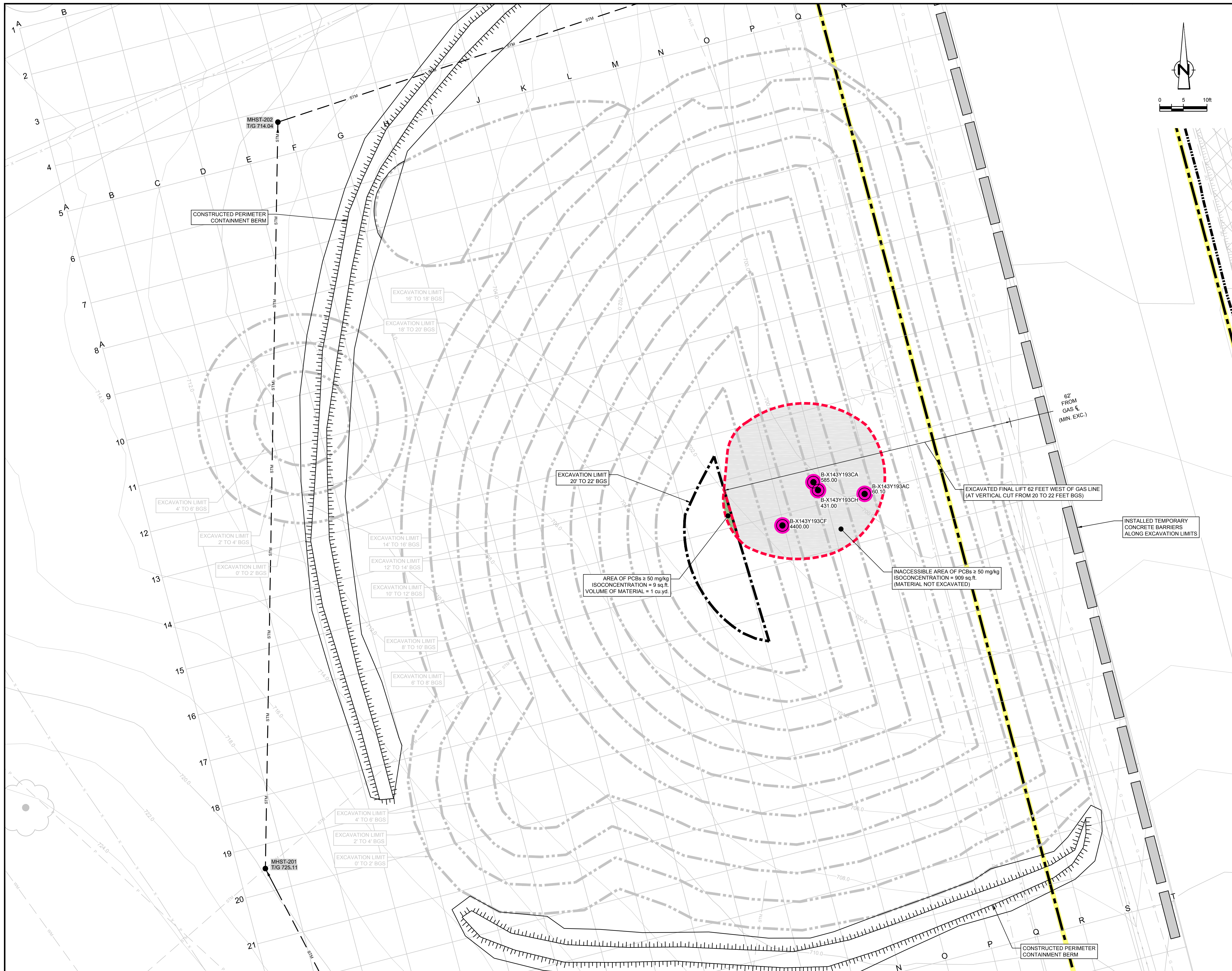
CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA

**AOI 21 AREA 2 EXCAVATION OF
 PCBs >= 50 mg/kg 18 TO 20 FEET BGS**

CRA CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: 1" = 10'	Project No: 13968-00	Report No: 302
		Drawing No: C-10



No.	Revision	Date	Initial

LEGEND

- 610 GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- APPROXIMATE GM PROPERTY BOUNDARY
- TELEPHONE LINE (APPROXIMATE)
- GAS LINE (APPROXIMATE)
- STORM SEWER (GM HISTORICAL DRAWING)
- PROCESS SEWER (GM HISTORICAL DRAWING)
- EAST PLANT COVER LIMIT
- EXCAVATION CONTOURS
- EXCAVATION BOUNDARY OVER 50ppm MATERIAL AT 20 TO 22 FEET BGS
- EXCAVATION LIMIT AT 20 TO 22 FEET BGS
- INACCESSIBLE AREA OF ≥ 50 mg/kg (MATERIAL NOT EXCAVATED)
- AS-BUILT STORM SEWER
- MHST-201 AS-BUILT STORM MAINTENANCE HOLE STRUCTURE
- BOREHOLE IDENTIFICATION PCB CONCENTRATION (ppm)
- COLLECTED SAMPLE WITH TOTAL PCBs EQUAL TO OR GREATER THAN 50 ppm

RECORD DRAWINGS
 THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH

**GM CET BEDFORD FACILITY
 BEDFORD, INDIANA**

CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA

**AOI 21 AREA 2 EXCAVATION OF
 PCBs ≥ 50mg/kg 20 TO 22 FEET BGS**

CRA CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: 1" = 10'	Project No.: 13968-00	Report No.: 302
		Drawing No.: C-11



EXCAVATION WAS COMPLETED IN ADVANCE OF THE STORM SEWER RELOCATION AND CONTAINMENT BERM CONSTRUCTION (AS-BUILT STORM SEWER WAS COMPLETED ON NOVEMBER 10, 2008)

CONSTRUCTED PERIMETER CONTAINMENT BERM

OVERALL EXCAVATION LIMIT

OVERALL EXCAVATION LIMIT

CONSTRUCTED PERIMETER CONTAINMENT BERM

CONCRETE SWALE REMAINED

No	Revision	Date	Initial

LEGEND

	GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
	APPROXIMATE GM PROPERTY BOUNDARY
	TELEPHONE LINE (APPROXIMATE)
	GAS LINE (APPROXIMATE)
	STORM SEWER (GM HISTORICAL DRAWING)
	PROCESS SEWER (GM HISTORICAL DRAWING)
	EAST PLANT COVER LIMIT
	BACKFILL CONTOURS
	OVERALL EXCAVATION LIMIT
	AS-BUILT STORM SEWER
	MHST-201 AS-BUILT STORM MAINTENANCE HOLE STRUCTURE

RECORD DRAWINGS
 THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

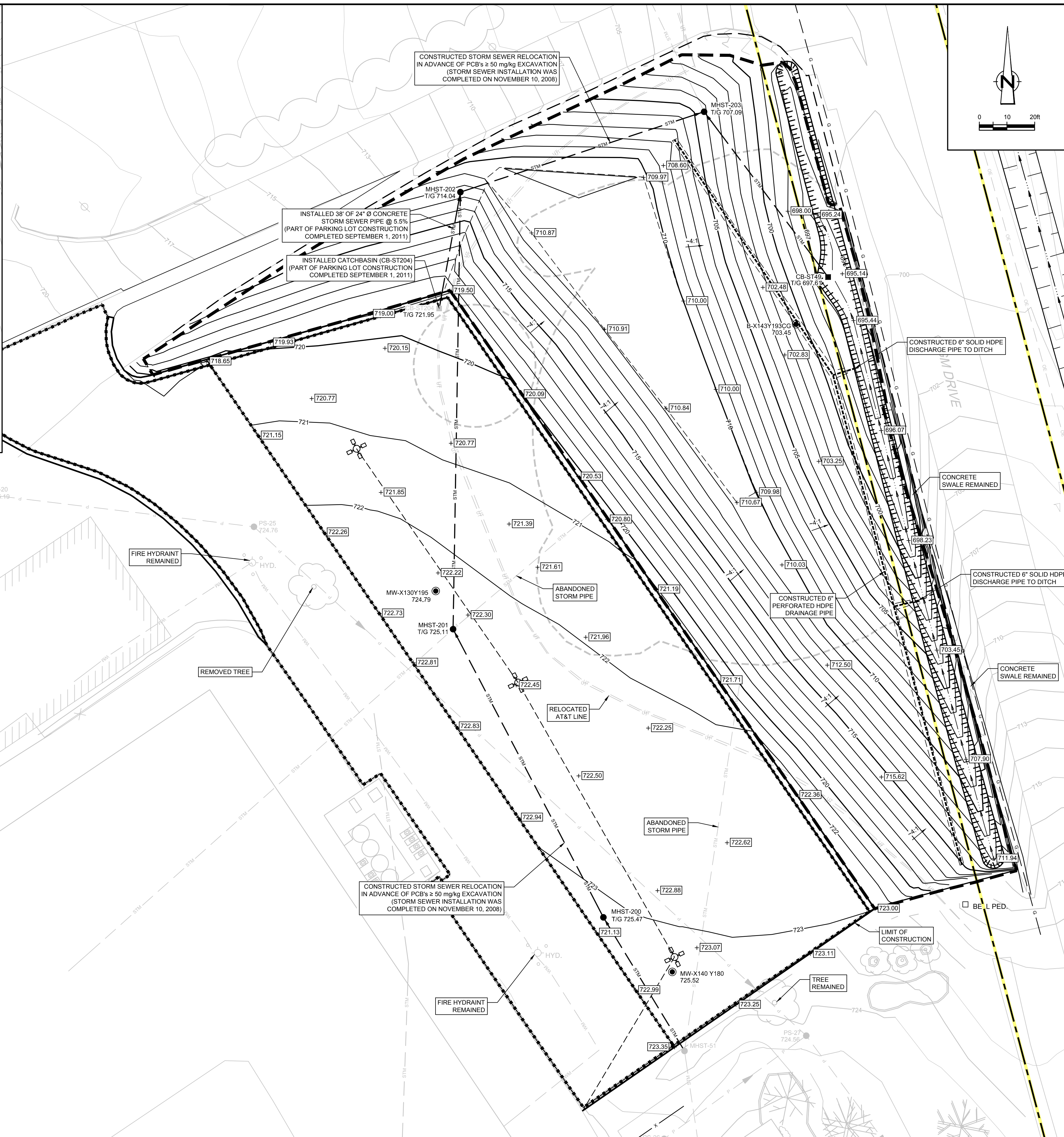
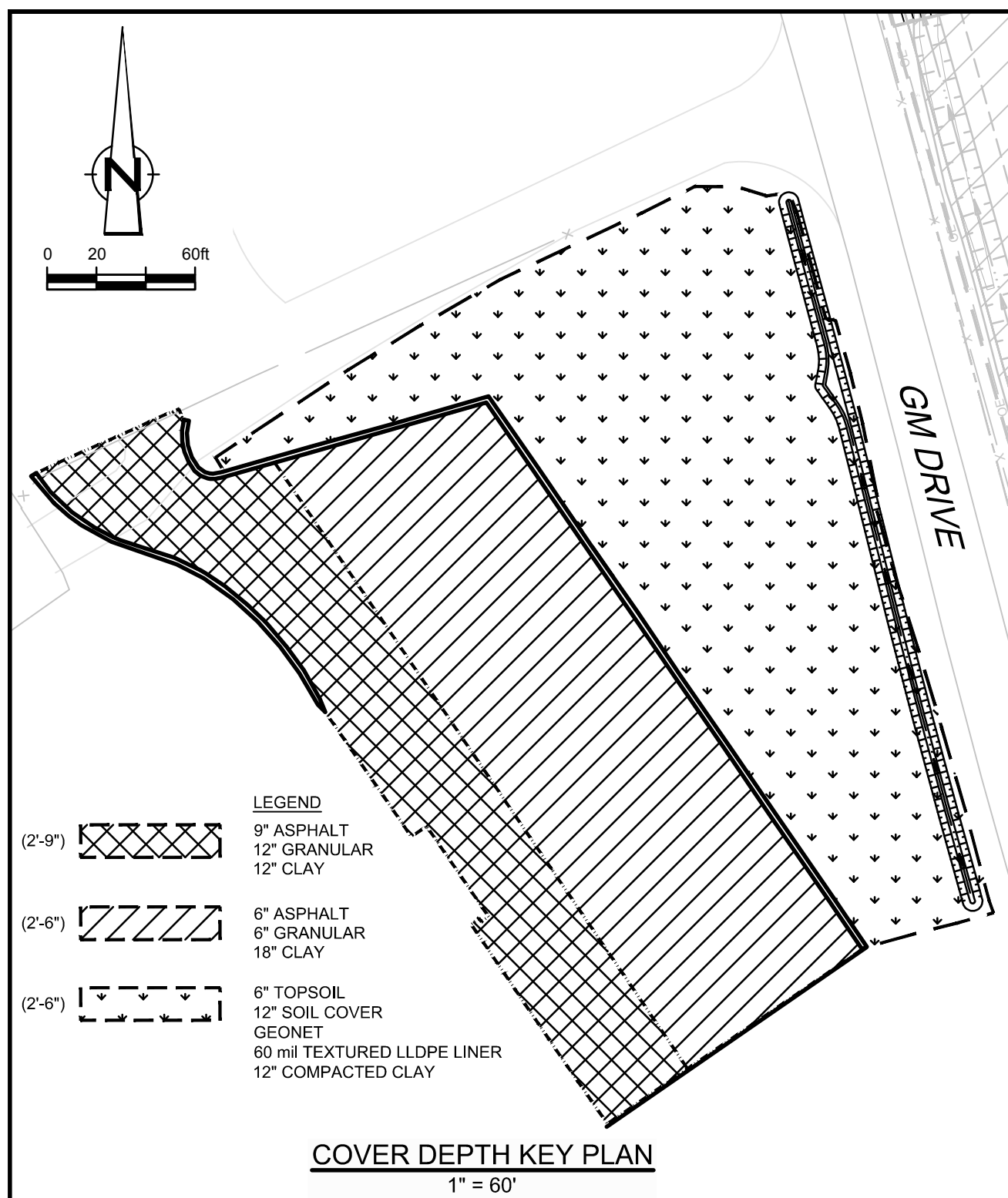
Approved

DRAWING STATUS

AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH
Status	Date	Initial

**GM CET BEDFORD FACILITY
 BEDFORD, INDIANA**
 CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA
 AOI 21 AREA 2 EXCAVATION BACKFILL
 CONTOUR PLAN

CONESTOGA-ROVERS & ASSOCIATES			
Source Reference:			
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001			
Project Manager:	Reviewed By:	Date:	
J.M.	C.R.H.	SEPTEMBER 2014	
Scale:	Project No.:	Report No.:	Drawing No.:
1" = 10'	13968-00	302	C-12



NO	Revision	Date	Initial

LEGEND

- APPROXIMATE GM PROPERTY BOUNDARY
- GAS LINE (APPROXIMATE)
- STM STORM SEWER (GM HISTORICAL DRAWING)
- P PROCESS SEWER (GM HISTORICAL DRAWING)
- UT AT&T LINE
- WM WATERMAIN
- OE OVERHEAD ELECTRICAL
- GRASS COVER LIMIT
- ASPHALT COVER LIMIT
- 700 AS-BUILT SUBGRADE CONTOUR
- [721.39] AS-BUILT SUBGRADE GRADE
- OVERALL EXCAVATION LIMIT
- STM AS-BUILT STORM SEWER
- DITCH TOP OF BANK LINE
- DITCH CENTER LINE
- DRAINAGE PIPE
- ELECTRICAL CONDUIT LINE
- x CHAIN LINK FENCE
- MHST-202 T/G 714.04 AS-BUILT MANHOLE
- CB-ST204 T/G 721.95 AS-BUILT CATCHBASIN
- MW-X140 Y180 725.52 MONITORING WELL
- HYD. FIRE HYDRANT
- BELL PED. TELEPHONE PAD
- LIGHT STANDARD

RECORD DRAWINGS
 THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS. AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

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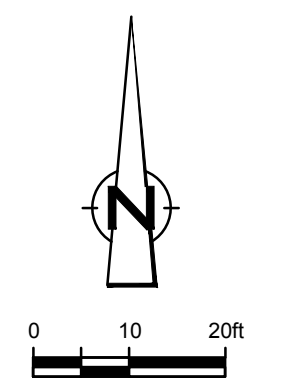
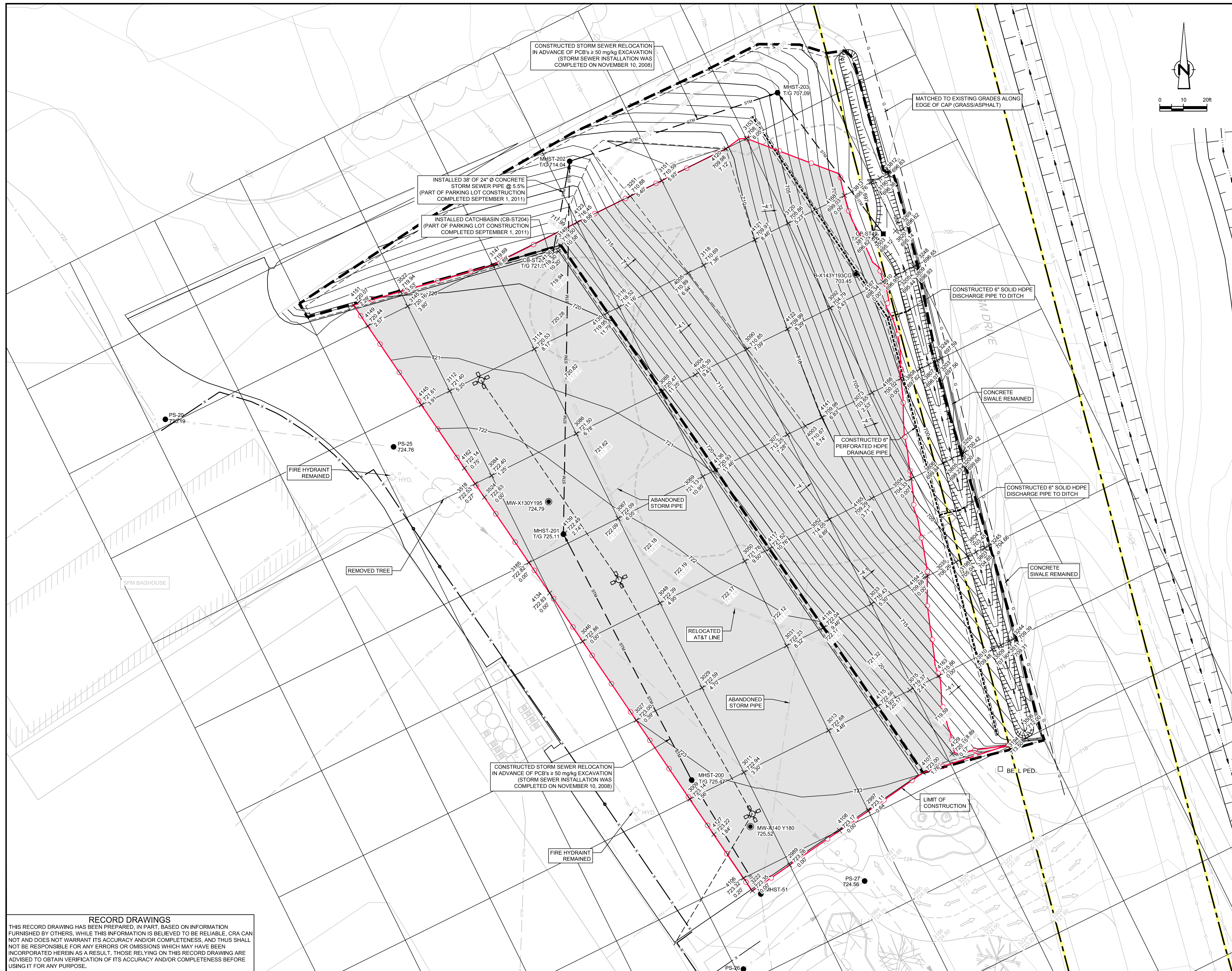
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH
Status	Date	Initial

**GM CET BEDFORD FACILITY
 BEDFORD, INDIANA**
 CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA
 PARKING LOT LAYOUT -
 AS-BUILT SUBGRADE CONTOUR PLAN

CRA CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: MARCH 2013
Scale: 1" = 20'	Project N°: 13968-00	Report N°: 302
		Drawing N°: C-13



NO	Revision	Date	Initial

LEGEND

- APPROXIMATE GM PROPERTY BOUNDARY
- GAS LINE (APPROXIMATE)
- STORM SEWER (GM HISTORICAL DRAWING)
- PROCESS SEWER (GM HISTORICAL DRAWING)
- AT&T LINE
- WATERMAIN
- OVERHEAD ELECTRICAL
- GRASS COVER LIMIT
- ASPHALT COVER LIMIT
- 700 AS-BUILT SUBGRADE CONTOUR
- OVERALL EXCAVATION LIMIT
- AS-BUILT STORM SEWER
- DITCH TOP OF BANK LINE
- DITCH CENTER LINE
- DRAINAGE PIPE
- ELECTRICAL CONDUIT LINE
- CHAIN LINK FENCE
- MHST-202 T/G 714.04 AS-BUILT MANHOLE
- CB-ST204 T/G 721.95 AS-BUILT CATCHBASIN
- MW-X140 Y180 725.52 MONITORING WELL
- HYD. FIRE HYDRANT
- BELL PED. TELEPHONE PAD
- LIGHT STANDARD
- LIMIT OF PLACED GRADING FILL (GRADING FILL VOLUME = 9,150 yd³)
- 4135 SPOT ELEVATION NUMBER ID
- 719.95 AS-BUILT SUBGRADE SPOT ELEVATION
- 11.79 SUBGRADE FILL THICKNESS
- 722.20 AS-BUILT SUBGRADE SPOT ELEVATION RELOCATED AT&T LINE ELEVATION

SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved _____

DRAWING STATUS

Status	Date	Initial
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH

**GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA

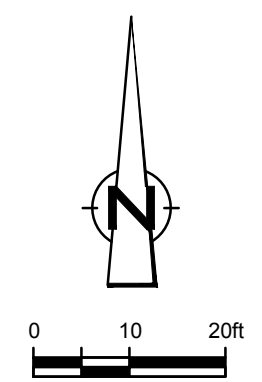
**PARKING LOT LAYOUT -
AS-BUILT SUBGRADE/FILL ELEVATION PLAN**

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: MARCH 2013
Scale: 1" = 20'	Project No.:	Report No.:
	13968-00	302
		Drawing No.:
		C-14

RECORD DRAWINGS
THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS, WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THIS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.



No	Revision	Date	Initial

LEGEND	
	APPROXIMATE GM PROPERTY BOUNDARY
	GAS LINE (APPROXIMATE)
	STORM SEWER (GM HISTORICAL DRAWING)
	PROCESS SEWER (GM HISTORICAL DRAWING)
	AT&T LINE
	WATERMAIN
	OVERHEAD ELECTRICAL
	GRASS COVER LIMIT / 60 MIL TEXTURED LLDPE LINER LIMIT
	ASPHALT COVER LIMIT
	AS-BUILT SUBGRADE CONTOUR
	AS-BUILT SUBGRADE GRADE
	OVERALL EXCAVATION LIMIT
	AS-BUILT STORM SEWER
	DITCH TOP OF BANK LINE
	DITCH CENTER LINE
	DRAINAGE PIPE
	ELECTRICAL CONDUIT LINE
	CHAIN LINK FENCE
	MHST-202 TIG 744.04 AS-BUILT MANHOLE
	CB-ST204 TIG 721.95 AS-BUILT CATCHBASIN
	MW-X140 Y180 725.52 MONITORING WELL
	HYD. FIRE HYDRANT
	BELL PED. TELEPHONE PAD
	LIGHT STANDARD
	DS4 R20 60 MIL TEXTURED LLDPE LINER PANEL DESTRUCTIVE / REPAIR SEAM TEST LOCATION
	R48 60 MIL TEXTURED LLDPE LINER PANEL REPAIR LOCATION
	WP-16 60 MIL TEXTURED LLDPE LINER PANEL IDENTIFICATION ID

SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

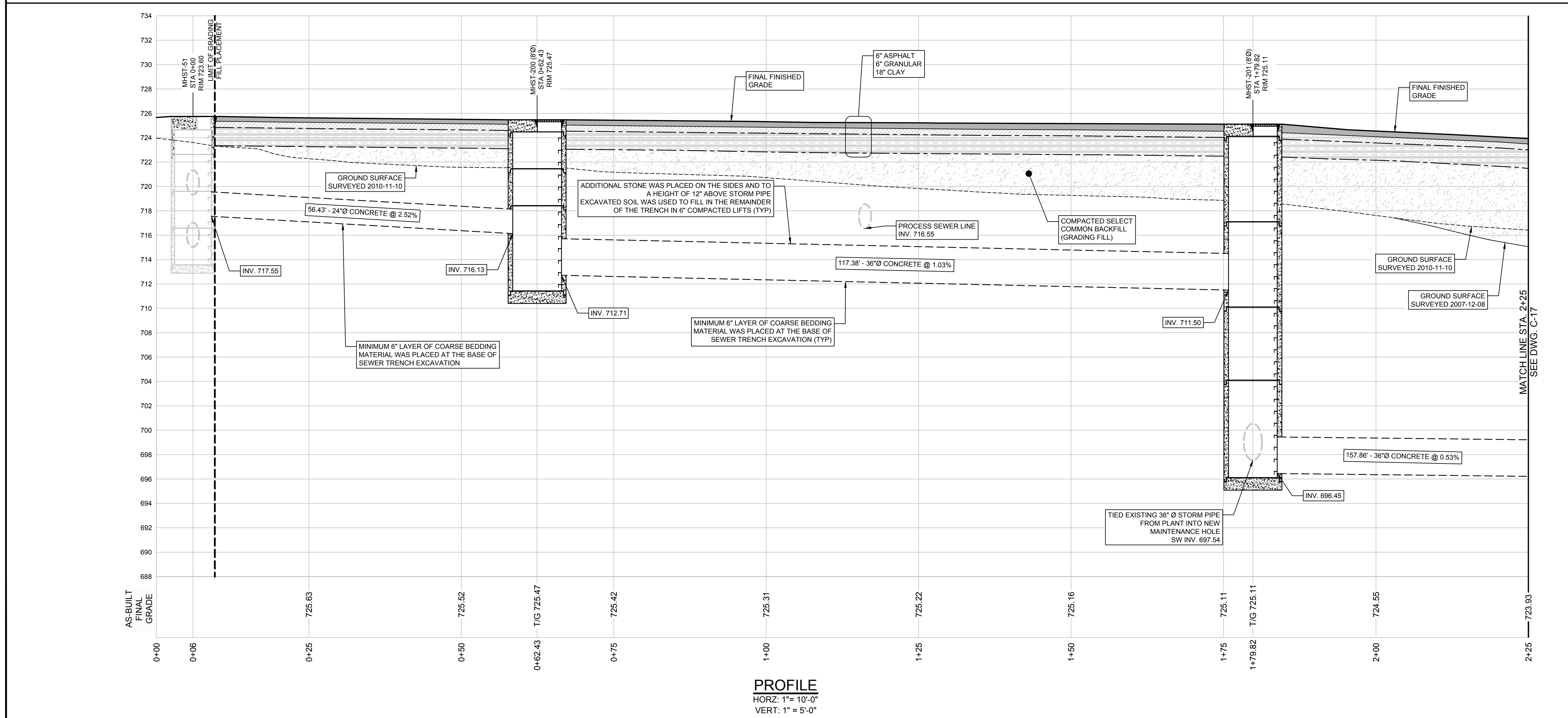
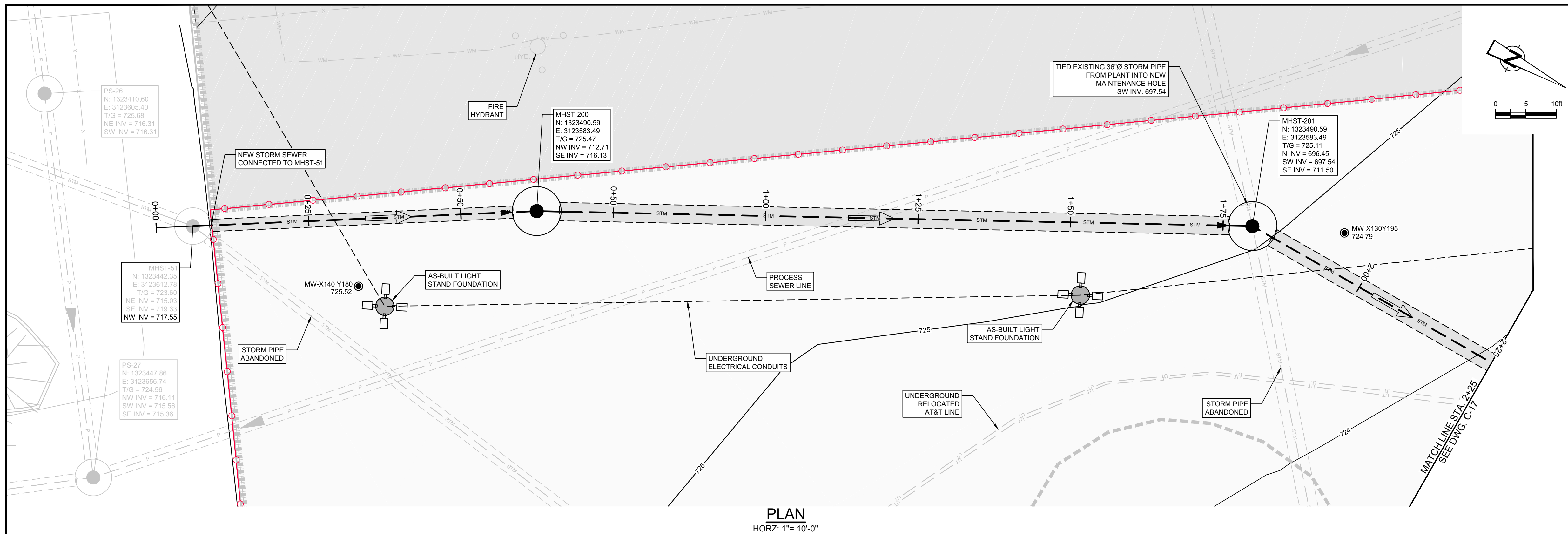
APPROVED

DRAWING STATUS		
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH
Status	Date	Initial

GM CET BEDFORD FACILITY
BEDFORD, INDIANA
CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA
PARKING LOT LAYOUT - AS-BUILT
60-MIL LLDPE LINER PANEL LAYOUT

CONESTOGA-ROVERS & ASSOCIATES			
Source Reference:			
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001			
Project Manager:	Reviewed By:	Date:	
J.M.	C.R.H.	SEPTEMBER 2014	
Scale:	Project No.:	Report No.:	Drawing No.:
1" = 20'	13968-00	302	C-15

RECORD DRAWINGS
 THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.



NO	Revision	Date	Initial

LEGEND

- STM --- STORM SEWER (GM HISTORICAL DRAWING)
- P --- PROCESS SEWER (GM HISTORICAL DRAWING)
- UT --- AT&T LINE
- WM --- WATERMAIN
- ASPHALT COVER LIMIT
- 700 --- ASPHALT COVER LIMIT
- OVERALL EXCAVATION LIMIT
- STM --- AS-BUILT STORM SEWER
- ELECTRICAL CONDUIT LINE
- LIMIT OF PLACED GRADING FILL
- MHST-202 T/G 714.04 AS-BUILT MANHOLE
- HYD. FIRE HYDRANT
- LIGHT STANDARD
- DIRECTION OF STORM SEWER PIPE FLOW ARROW
- REGULAR ASPHALT COVER SYSTEM (6" STONE / 6" ASPHALT / 18" CLAY)
- 350-TON ASPHALT COVER SYSTEM (12" STONE / 9" ASPHALT / 12" CLAY)

RECORD DRAWINGS
THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH
Status	Date	Initial

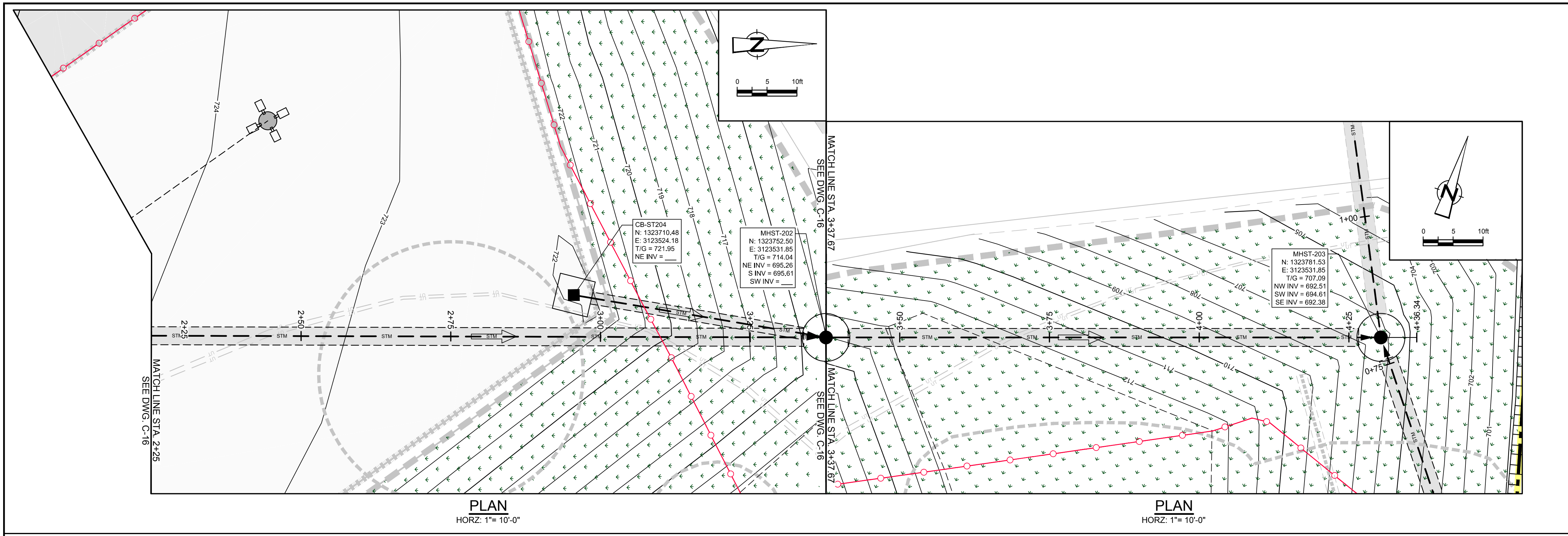
GM CET BEDFORD FACILITY
BEDFORD, INDIANA
CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA
PARKING LOT LAYOUT - AS-BUILT STORM SEWER
PLAN AND PROFILE SHEET 1 OF 3

CRA CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: AS SHOWN	Project N°: 13968-00	Report N°: 302
		Drawing N°: C-16

13968-00(302)C1-WA017 NOV 11/2014



PLAN
HORIZ: 1"= 10'-0"

PLAN
HORIZ: 1"= 10'-0"

NO	Revision	Date	Initial

LEGEND

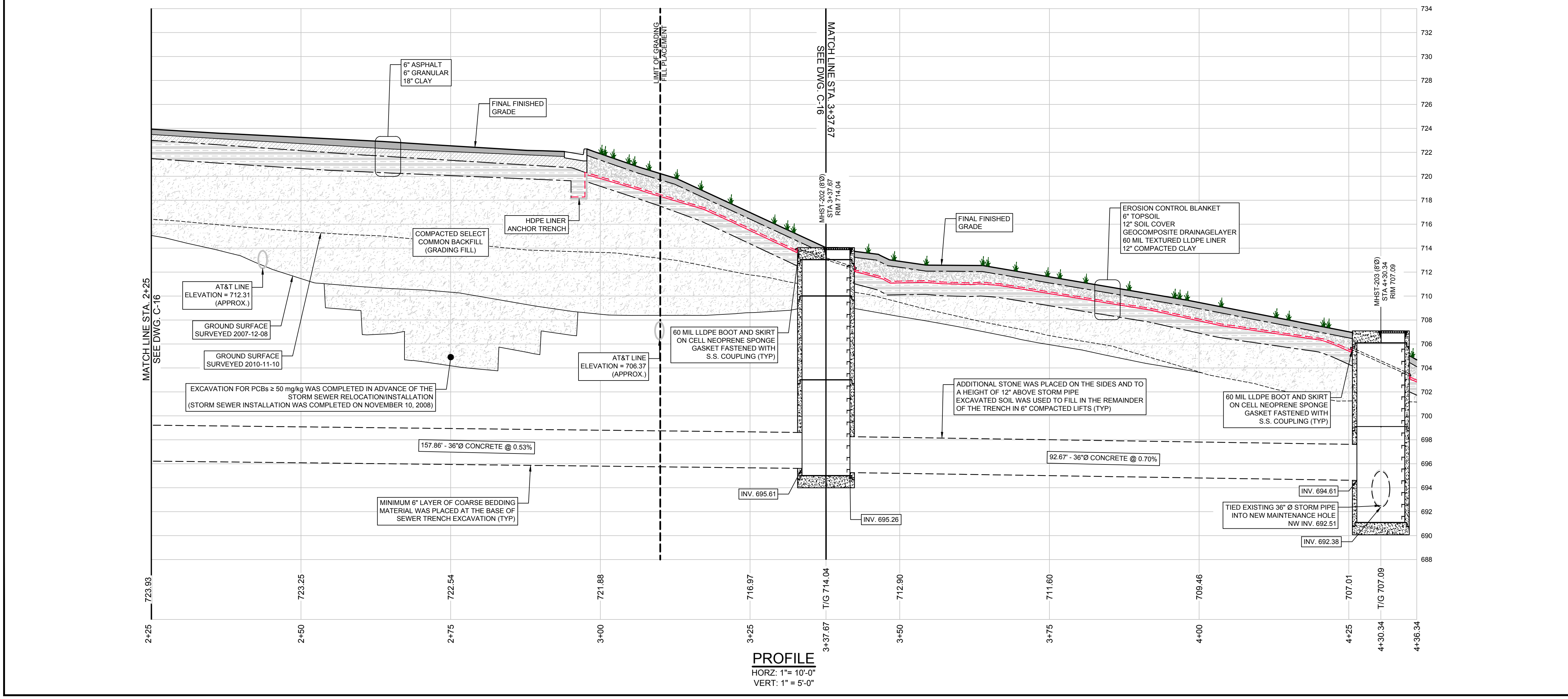
- APPROXIMATE GM PROPERTY BOUNDARY
- STORM SEWER (GM HISTORICAL DRAWING)
- PROCESS SEWER (GM HISTORICAL DRAWING)
- AT&T LINE
- ASPHALT COVER LIMIT
- AS-BUILT CONTOUR
- OVERALL EXCAVATION LIMIT
- AS-BUILT STORM SEWER
- DITCH TOP OF BANK LINE
- DITCH CENTER LINE
- DRAINAGE PIPE
- ELECTRICAL LINE
- LIMIT OF PLACED GRADING FILL
- AS-BUILT MANHOLE
- AS-BUILT CATCHBASIN
- LIGHTING POLE
- DIRECTION OF STORM SEWER PIPE FLOW ARROW
- REGULAR ASPHALT COVER SYSTEM (6" STONE / 6" ASPHALT / 18" CLAY)
- 350-TON ASPHALT COVER SYSTEM (12" STONE / 9" ASPHALT / 12" CLAY)
- SOIL COVER SYSTEM (6" TOPSOIL / 12" SOIL COVER / GEONET / 60 MIL TEXTURED HDPE/LLDPE / 12" COMPACTED CLAY)

RECORD DRAWINGS
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SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

DRAWING STATUS

AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH
Status	Date	Initial



PROFILE
HORIZ: 1"= 10'-0"
VERT: 1"= 5'-0"

GM CET BEDFORD FACILITY
BEDFORD, INDIANA

CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA

PARKING LOT LAYOUT - AS-BUILT STORM SEWER
PLAN AND PROFILE SHEET 2 OF 3

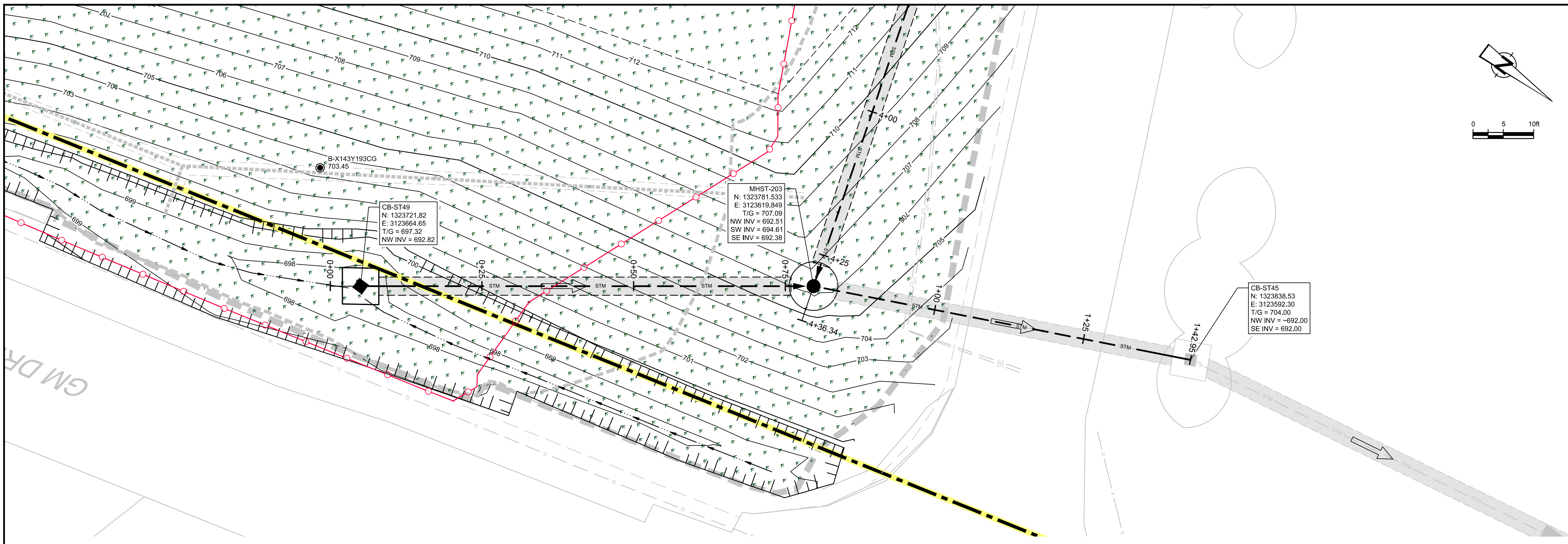
CRA CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

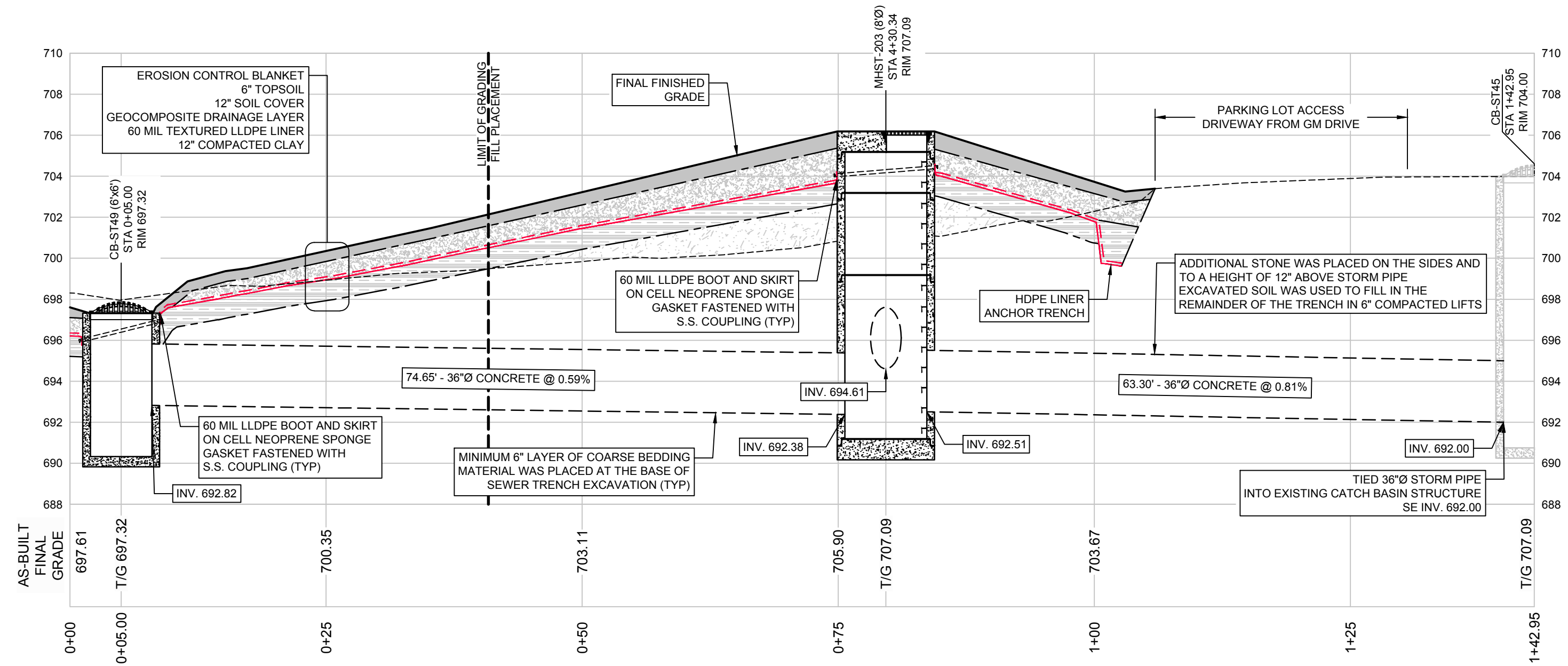
Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: AS SHOWN	Project N°: 13968-00	Report N°: 302

Drawing N°: C- 17

13968-00(302)CI-WA017 NOV 11/2014



PLAN
HORZ: 1" = 10'-0"



PROFILE
HORZ: 1" = 10'-0"
VERT: 1" = 5'-0"

NO.	Revision	Date	Initial

LEGEND

- APPROXIMATE GM PROPERTY BOUNDARY
- STORM SEWER (GM HISTORICAL DRAWING)
- AT&T LINE
- AS-BUILT CONTOUR
- OVERALL EXCAVATION LIMIT
- AS-BUILT STORM SEWER
- DITCH TOP OF BANK LINE
- DITCH CENTER LINE
- DRAINAGE PIPE
- LIMIT OF PLACED GRADING FILL
- MHST-202
T/G 714.04
- AS-BUILT MANHOLE
- CB-ST204
T/G 721.95
- AS-BUILT CATCHBASIN
- DIRECTION OF STORM SEWER PIPE FLOW ARROW
- SOIL COVER SYSTEM
(6" TOPSOIL / 12" SOIL COVER / GEONET / 60 MIL TEXTURED HDPE/LLDPE / 12" COMPACTED CLAY)

RECORD DRAWINGS
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SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved _____

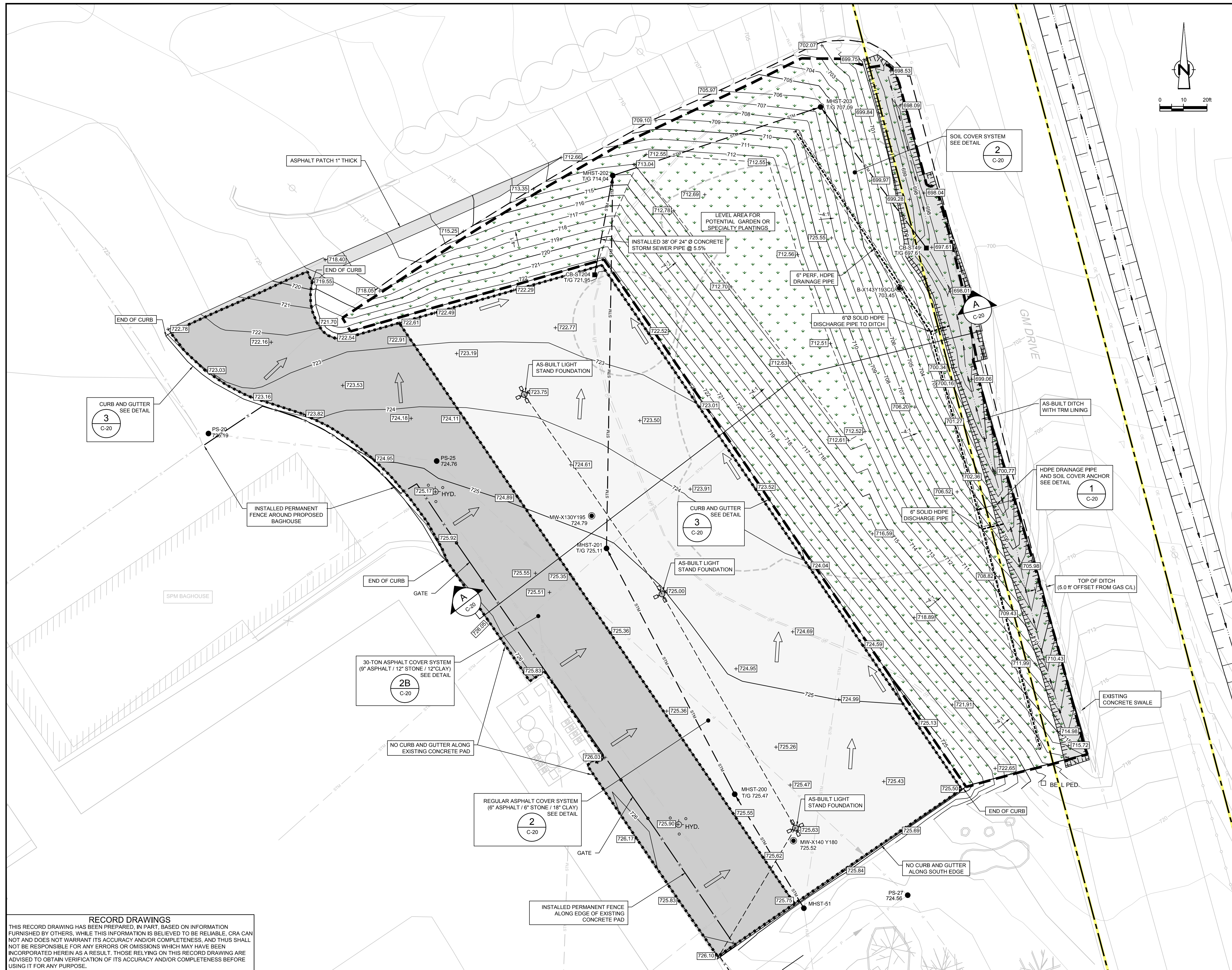
DRAWING STATUS

Status	Date	Initial
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH

**GM CET BEDFORD FACILITY
BEDFORD, INDIANA**
CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA
**PARKING LOT LAYOUT - AS-BUILT STORM SEWER
PLAN AND PROFILE SHEET 3 OF 3**

Source Reference:
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: AS SHOWN	Project N ^o : 13968-00	Report N ^o : 302
		Drawing N ^o : C-18



No	Revision	Date	Initial

LEGEND

- APPROXIMATE GM PROPERTY BOUNDARY
- GAS LINE (APPROXIMATE)
- STORM SEWER (GM HISTORICAL DRAWING)
- PROCESS SEWER (GM HISTORICAL DRAWING)
- AT&T LINE
- WATERMAIN
- OVERHEAD ELECTRICAL
- GRASS COVER LIMIT
- ASPHALT COVER LIMIT
- AS-BUILT SUBGRADE CONTOUR
- AS-BUILT SUBGRADE GRADE
- OVERALL EXCAVATION LIMIT
- AS-BUILT STORM SEWER
- DITCH TOP OF BANK LINE
- DITCH CENTER LINE
- DRAINAGE PIPE
- ELECTRICAL CONDUIT LINE
- CHAIN LINK FENCE
- MHST-202 T/G 714.04 AS-BUILT MANHOLE
- CB-ST204 T/G 721.95 AS-BUILT CATCHBASIN
- MW-X140 Y180 725.52 MONITORING WELL
- HYD. FIRE HYDRANT
- BELL PED. TELEPHONE PAD
- LIGHT STANDARD
- SURFACE WATER FLOW ARROW
- REGULAR ASPHALT COVER SYSTEM (6\"/>

SCALE VERIFICATION
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH

**GM CET BEDFORD FACILITY
 BEDFORD, INDIANA**

CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA

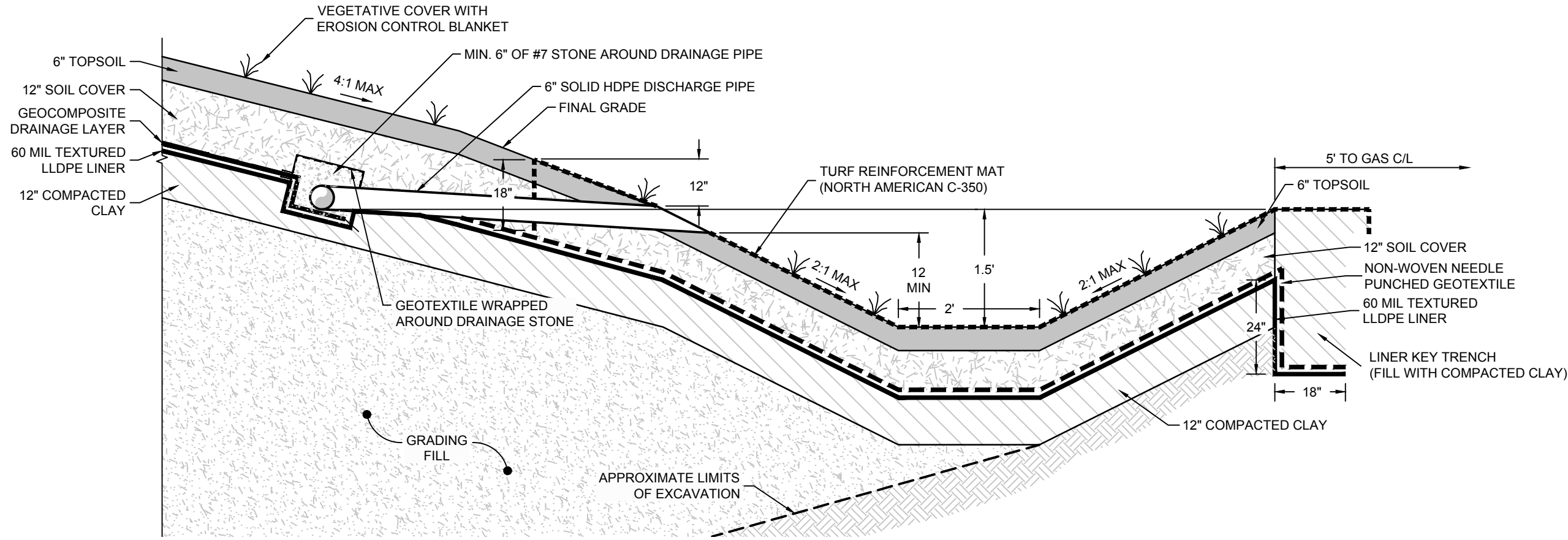
**PARKING LOT LAYOUT -
 AS-BUILT FINAL CONTOUR PLAN**



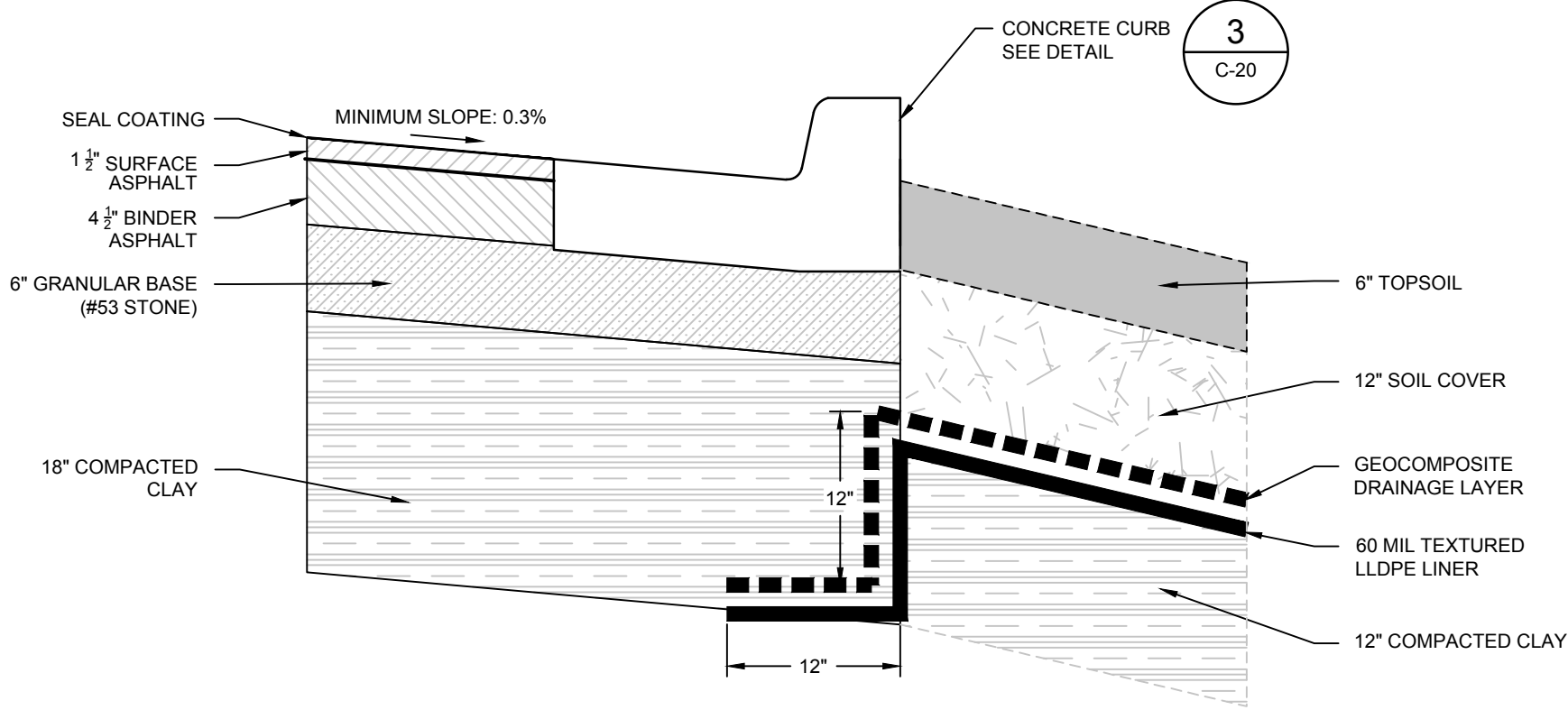
Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: 1" = 20'	Project No: 13968-00	Report No: 302
		Drawing No: C-19

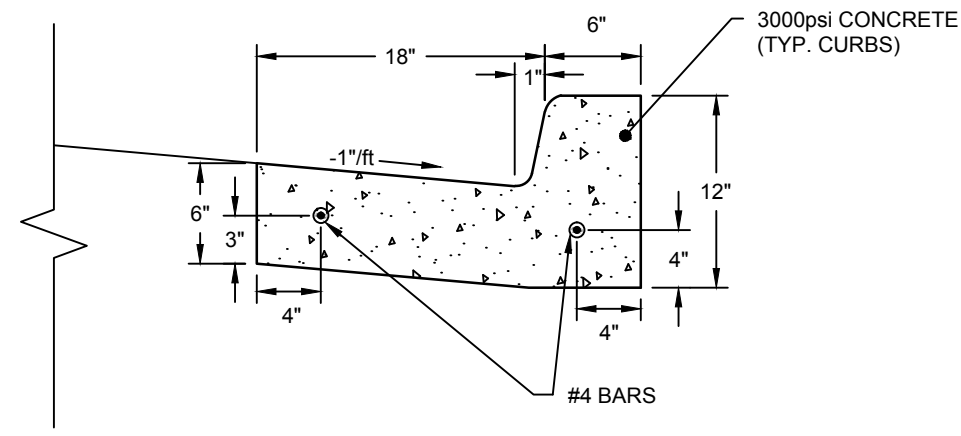
RECORD DRAWINGS
 THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THIS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.



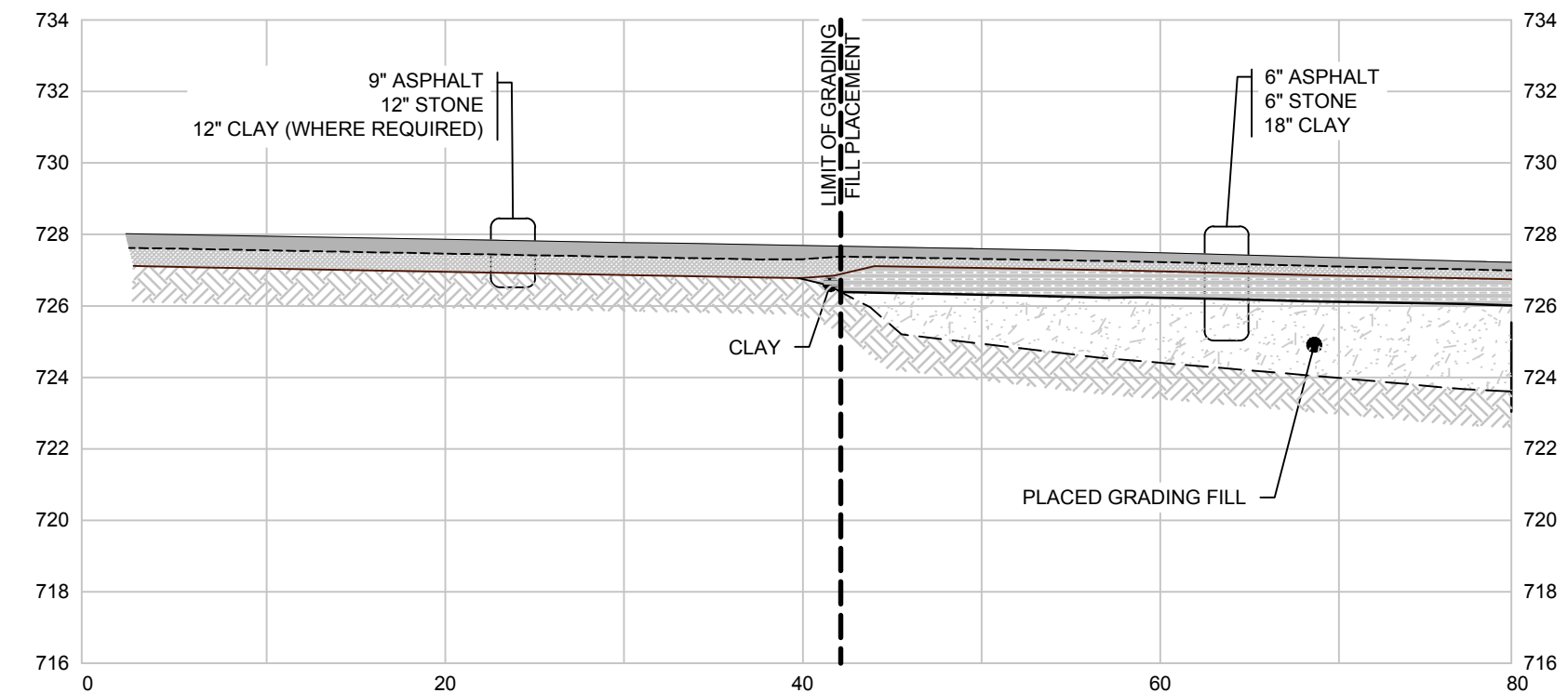
DETAIL 1
N.T.S. **HDPE DRAINAGE PIPE AND SOIL COVER ANCHOR**
C-19



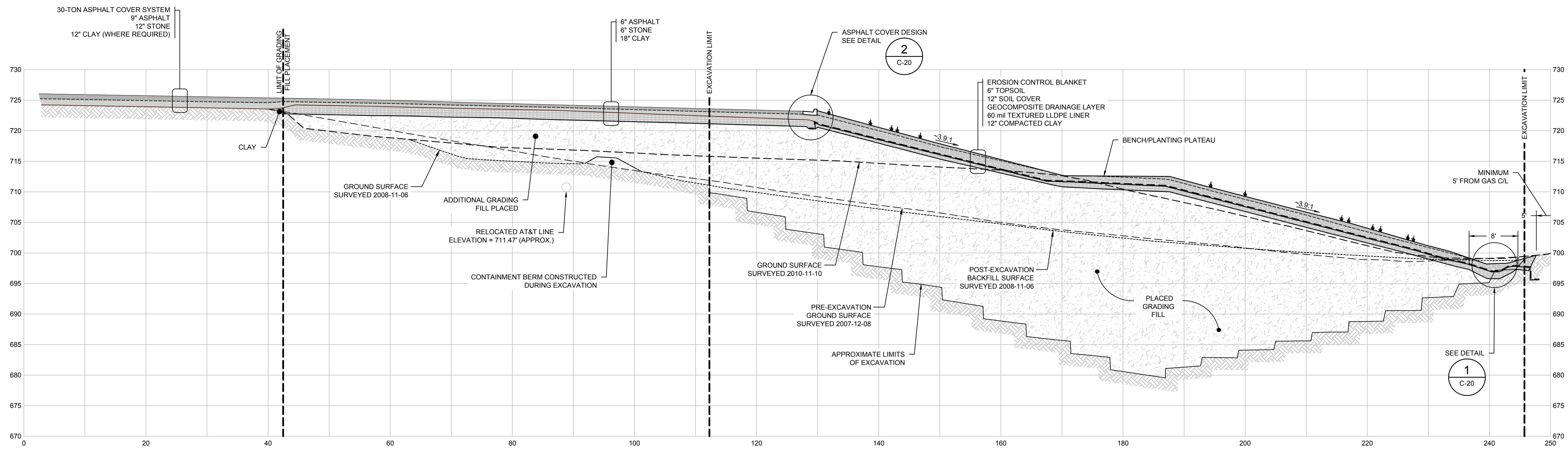
DETAIL 2
N.T.S. **REGULAR ASPHALT COVER SYSTEM AND SOIL COVER SYSTEM**
C-19



DETAIL 3
1"=1" **CONCRETE CURB AND GUTTER**
C-19



DETAIL 2B
HORIZ: 1" = 10'-0"
VERT: 1" = 5'-0" **30-TON ASPHALT COVER SYSTEM**
C-19



SECTION A
HORIZ: 1" = 10'-0"
VERT: 1" = 10'-0" **ASPHALT/GRASS COVER**
C-19

NO	Revision	Date	Initial

RECORD DRAWINGS
THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

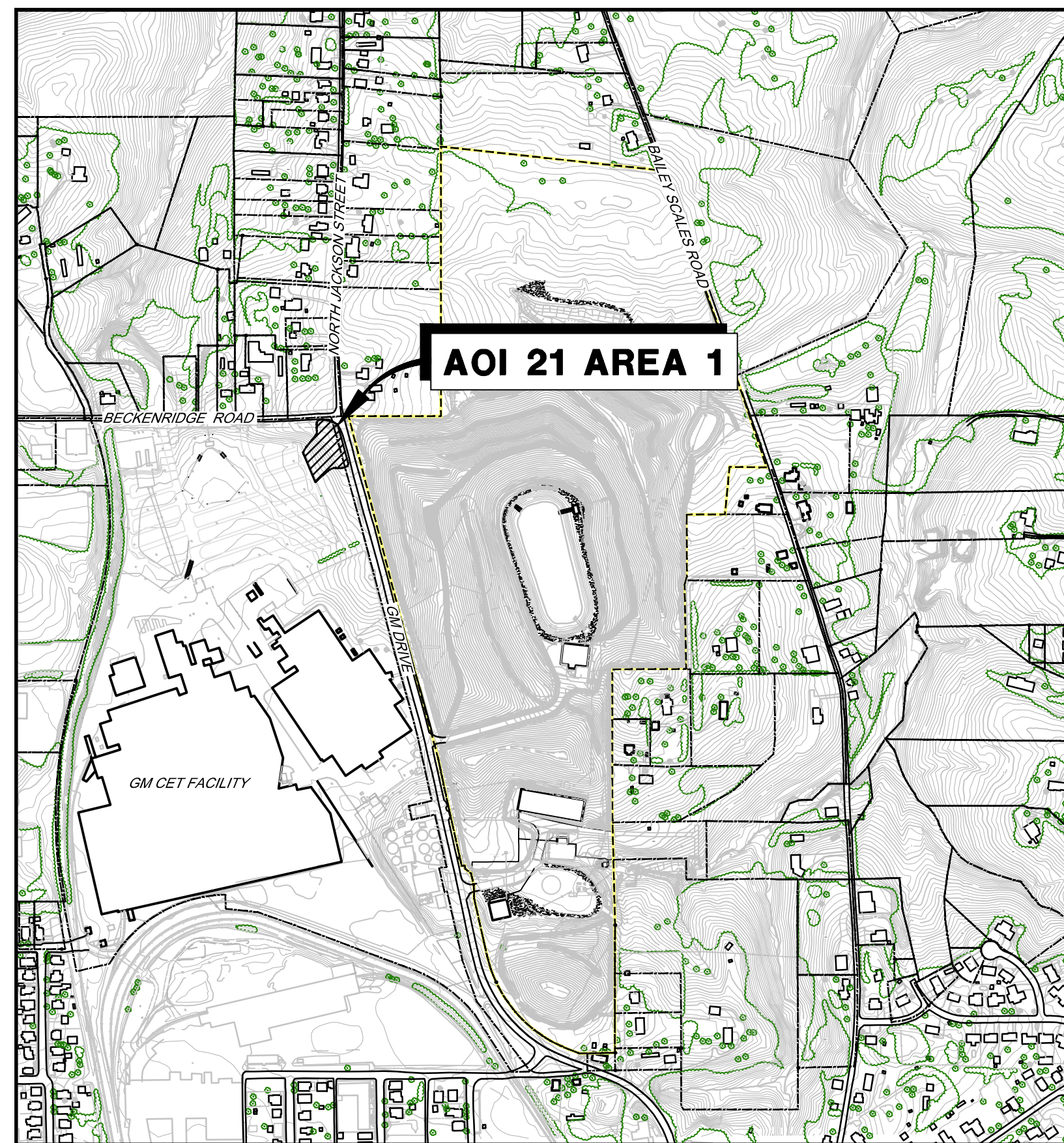
Status	Date	Initial
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH

**GM CET BEDFORD FACILITY
BEDFORD, INDIANA**
CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA
DETAILS AND CROSS-SECTION

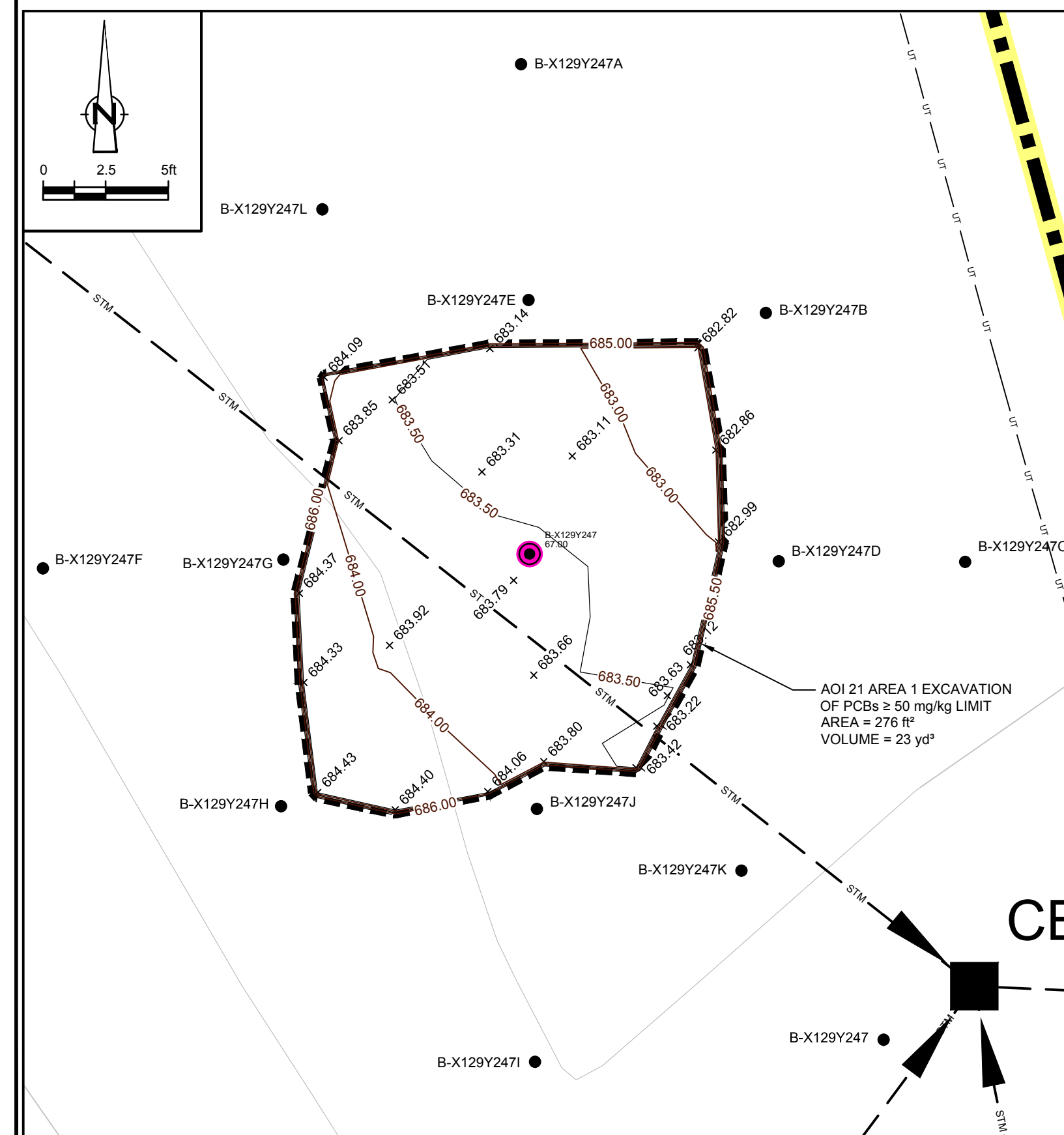
CRA CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

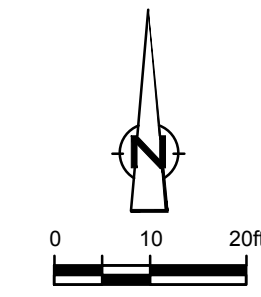
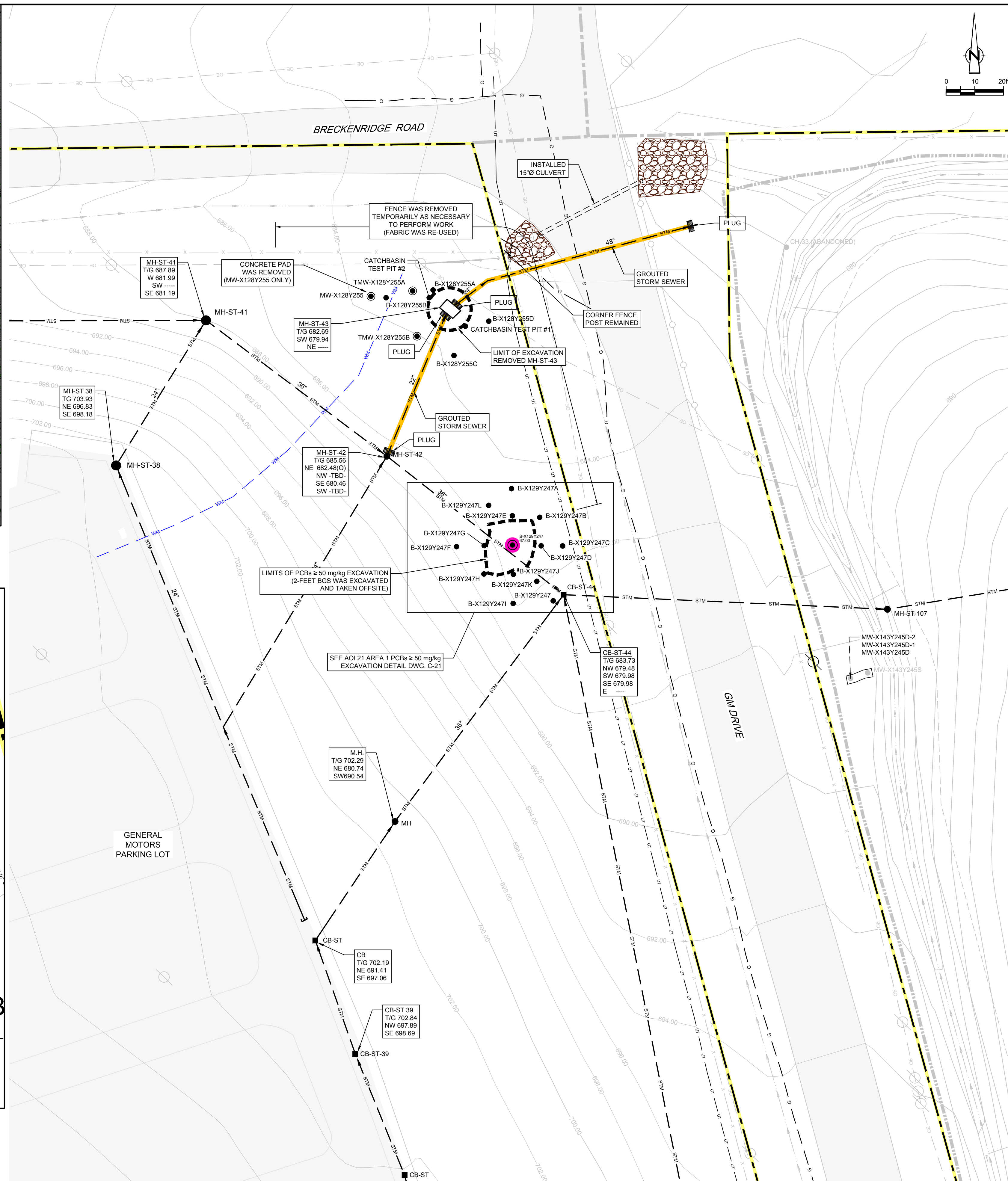
Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2013
Scale: AS SHOWN	Project No: 13968-00	Report No: 302
		Drawing No: C-20



KEY PLAN



AOI 21 AREA 1 PCBs ≥ 50 mg/kg EXCAVATION DETAIL



NO	Revision	Date	Initial

LEGEND

- G --- APPROXIMATE GM PROPERTY BOUNDARY
- - - G GAS LINE (APPROXIMATE)
- - - UT UT AT&T LINE
- - - WM WATERMAIN
- - - OE OVERHEAD ELECTRICAL
- - - GR GUARDRAIL
- EXCAVATION LIMIT
- - - 24" STM STORM PIPE LOCATION, DIRECTION OF FLOW AND PIPE DIAMETER
- GRouted SEWER
- MHST MANHOLE
- CB-ST CATCHBASIN
- MW-X128Y255 MONITORING WELL
- B-X128Y255B BOREHOLE
- B-X129Y247 BOREHOLE IDENTIFICATION PCB CONCENTRATION (ppm)
- COLLECTED SAMPLE WITH TOTAL PCBs EQUAL TO OR GREATER THAN 50 ppm
- T/G 683.63 GROUND (TOP OF GRATING)
- NW 679.48 INVERTS
- SW 679.98
- ASPHALTED AREA

RECORD DRAWINGS
 THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

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DRAWING STATUS

Status	Date	Initial
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH

**GM CET BEDFORD FACILITY
 BEDFORD, INDIANA**

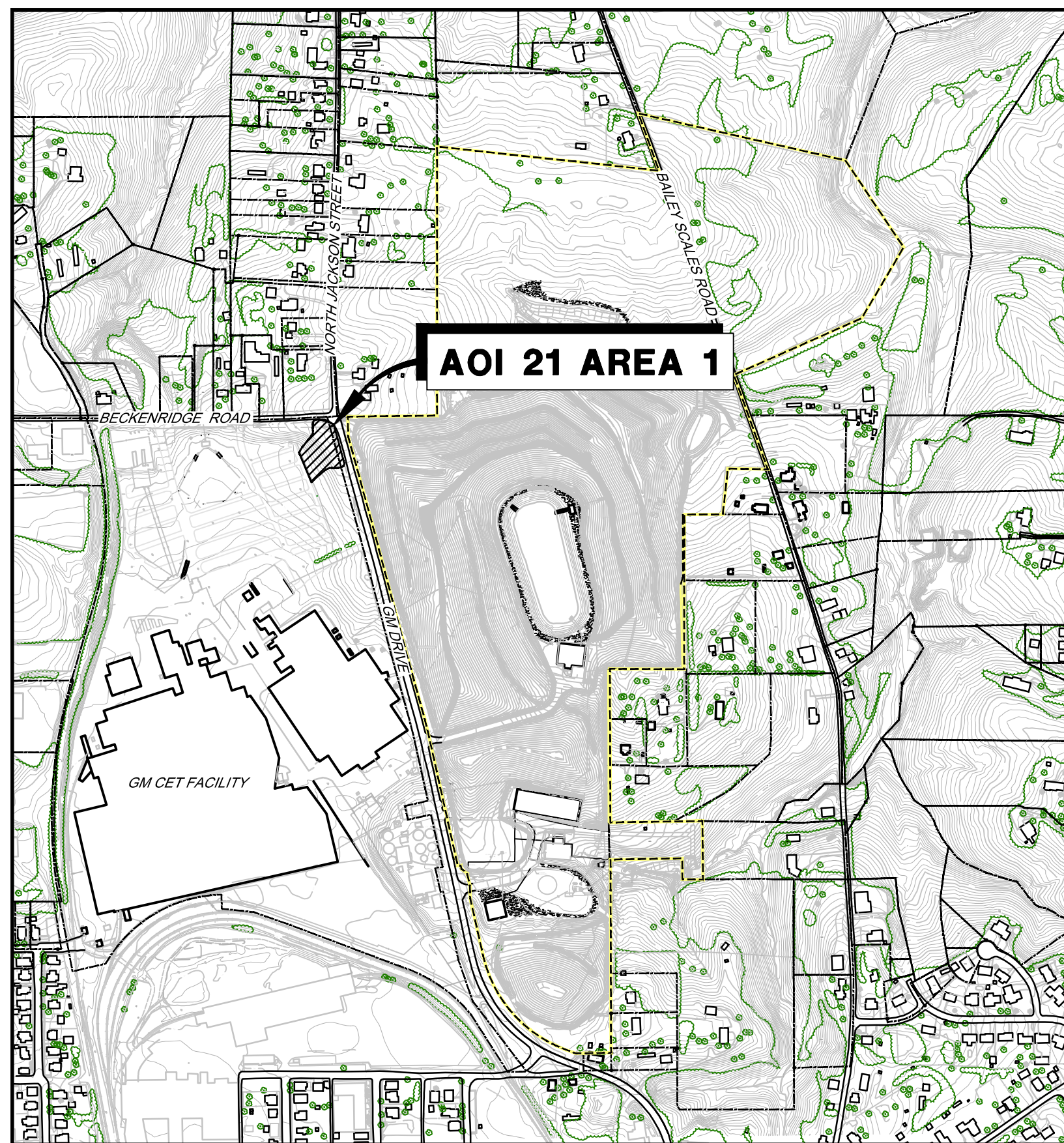
CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA

**AOI 21 AREA 1 EXCAVATION OF PCBs ≥ 50 mg/kg TOPOGRAPHY
 AND SEWER ABANDONMENT**

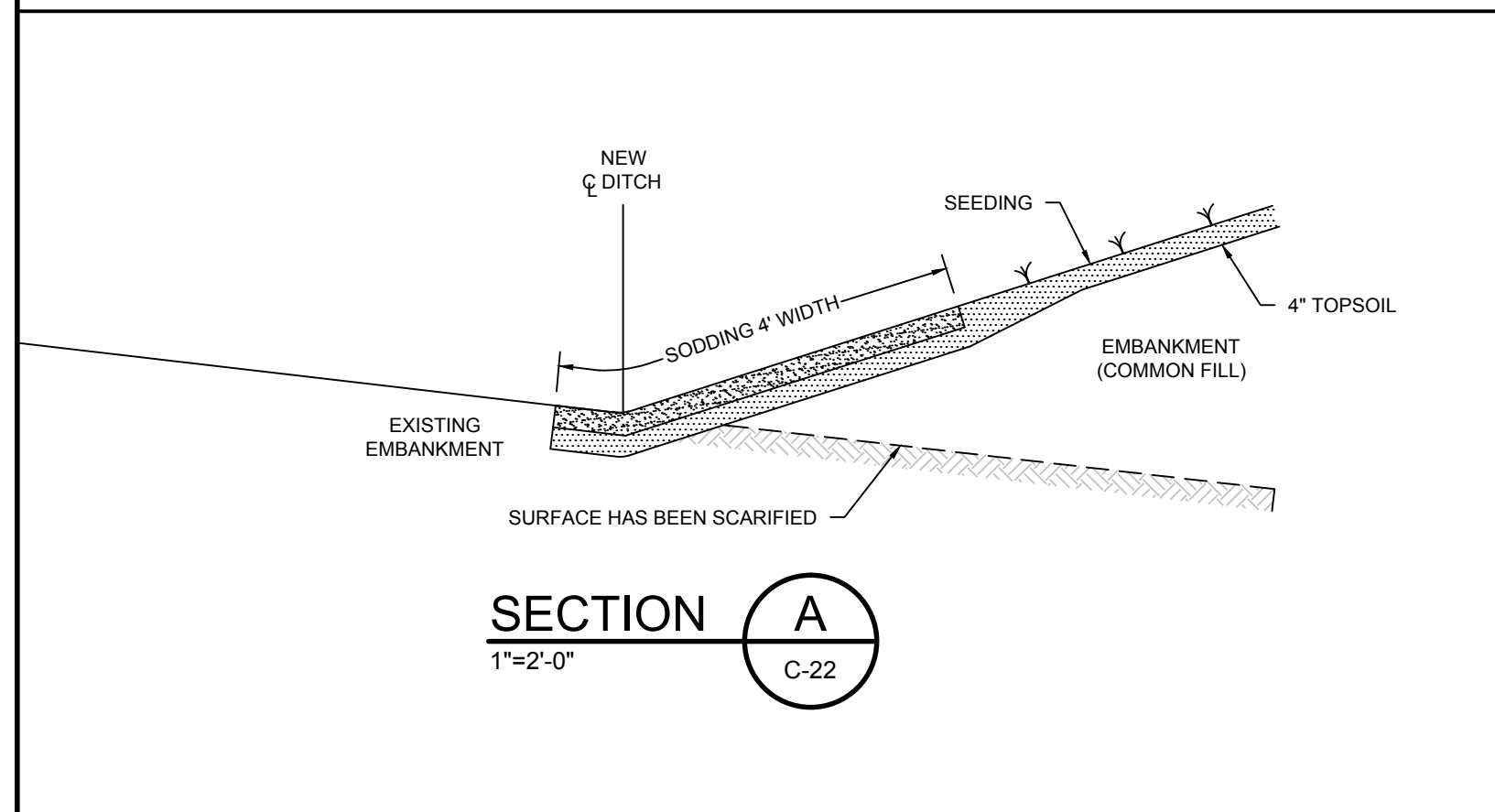
CRA CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001
 SEWER SURVEY COMPLETED BY PROFESSIONAL ENGINEERING ASSOCIATES, TROY, MI, JUNE 2000

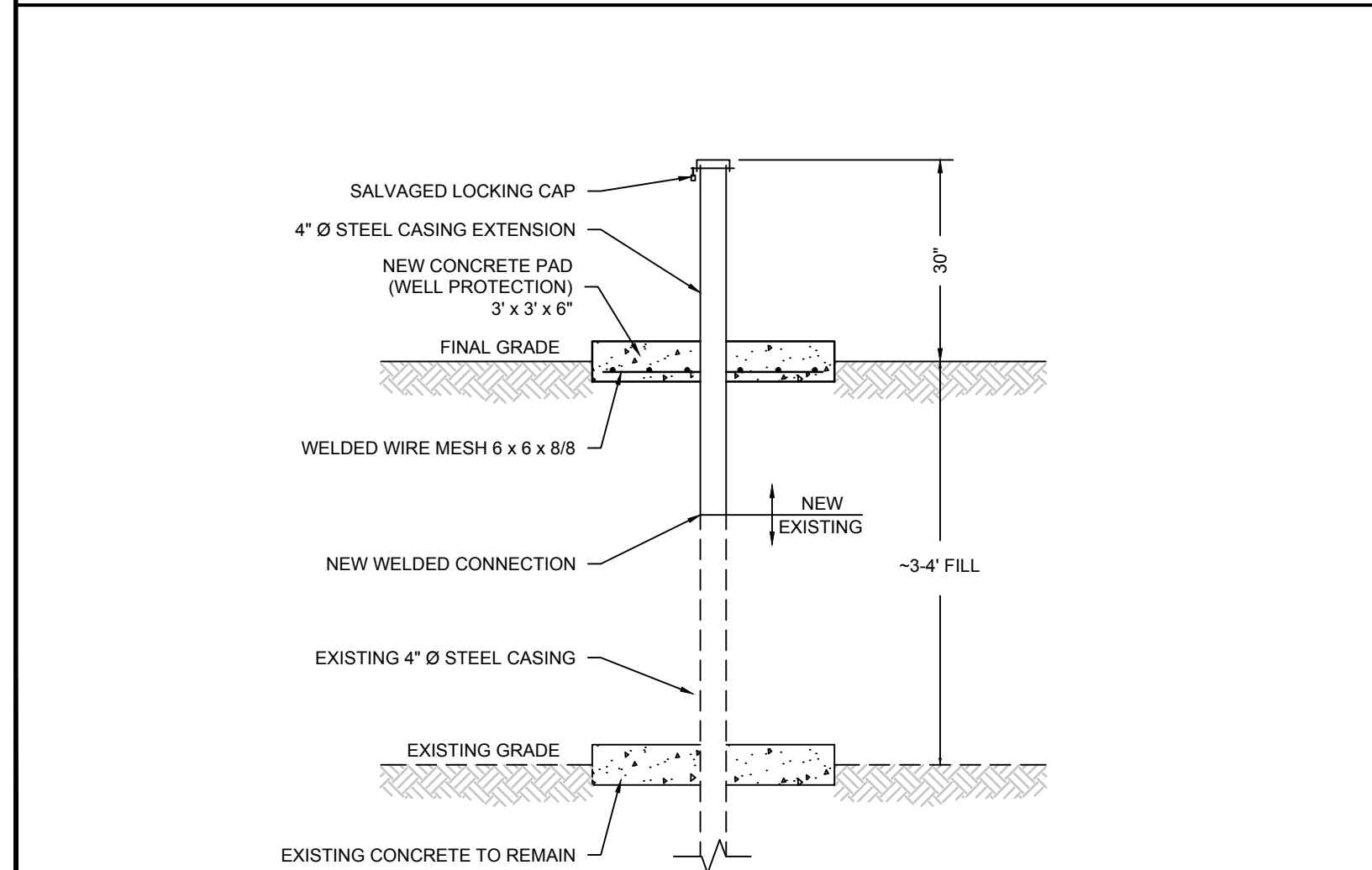
Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: 1"=20'	Project No: 13968-00	Report No: 302
		Drawing No: C-21



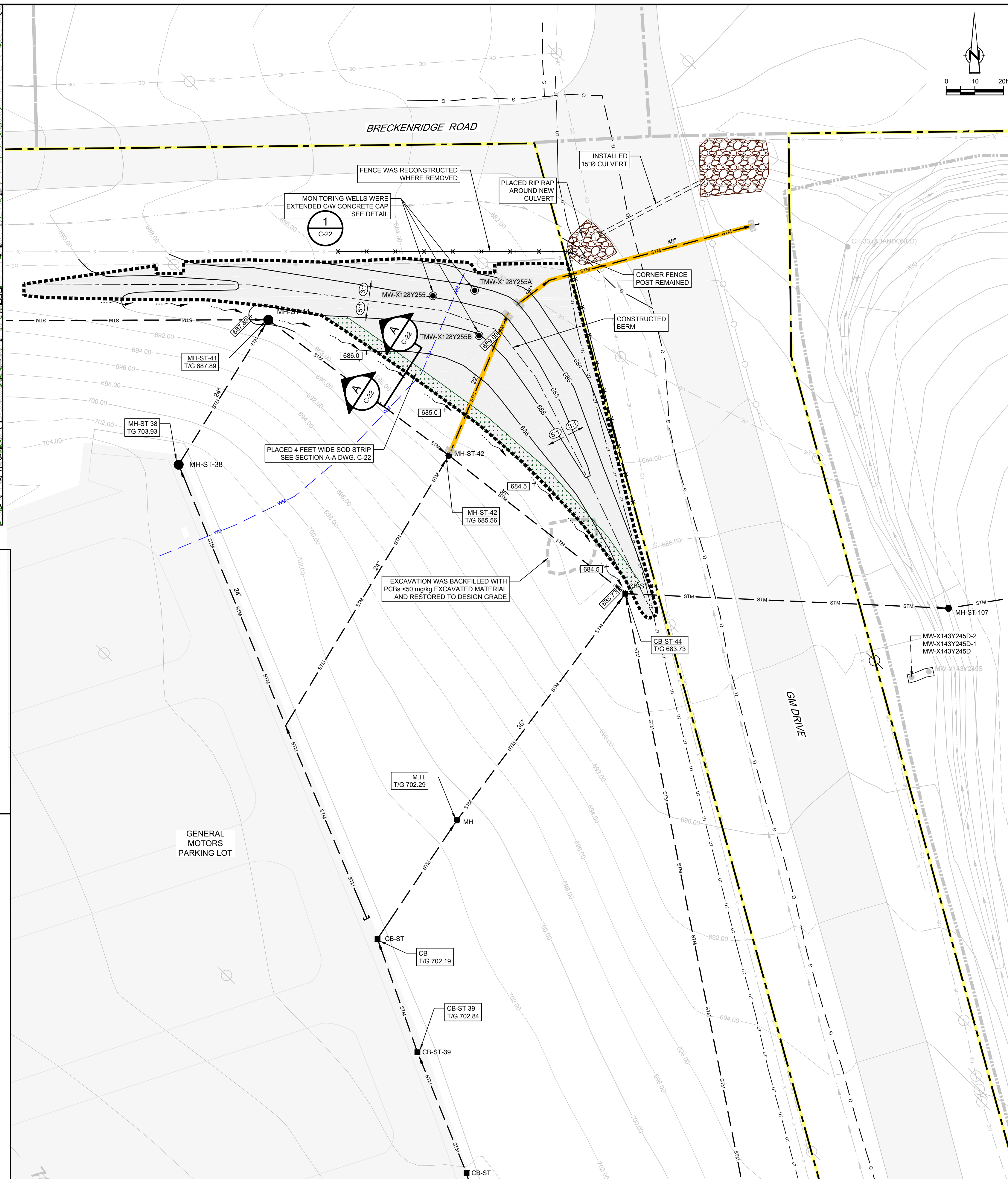
KEY PLAN



SECTION A
1"=2'-0"



DETAIL 1 MONITORING WELL EXTENSION
1"=2'-0"



NO	Revision	Date	Initial

LEGEND

- G --- APPROXIMATE GM PROPERTY BOUNDARY
- - - G GAS LINE (APPROXIMATE)
- - - UT - - - AT&T LINE
- - - WM - - - WATERMAIN
- - - OE - - - OVERHEAD ELECTRICAL
- - - GD - - - GUARDRAIL
- - - EXCAVATION LIMIT
- - - 24" STM - - - STORM PIPE LOCATION, DIRECTION OF FLOW AND PIPE DIAMETER
- GS --- GROUTED SEWER
- MH-ST MANHOLE
- CB-ST CATCHBASIN
- MW-X128Y255 MONITORING WELL
- T/G 683.63 GROUND (TOP OF GRATING)
- SW 679.88 INVERTS
- ASPHALTED AREA
- 686 --- CONTOURS (FILL)
- - - - - LIMIT OF FILL (BERM)
- - - - - SURFACE FLOW
- +685.35 SPOT ELEVATION
- 0 | 3:1 BERM CENTERLINE
- 1 | 5:1

RECORD DRAWINGS
THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION
THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH

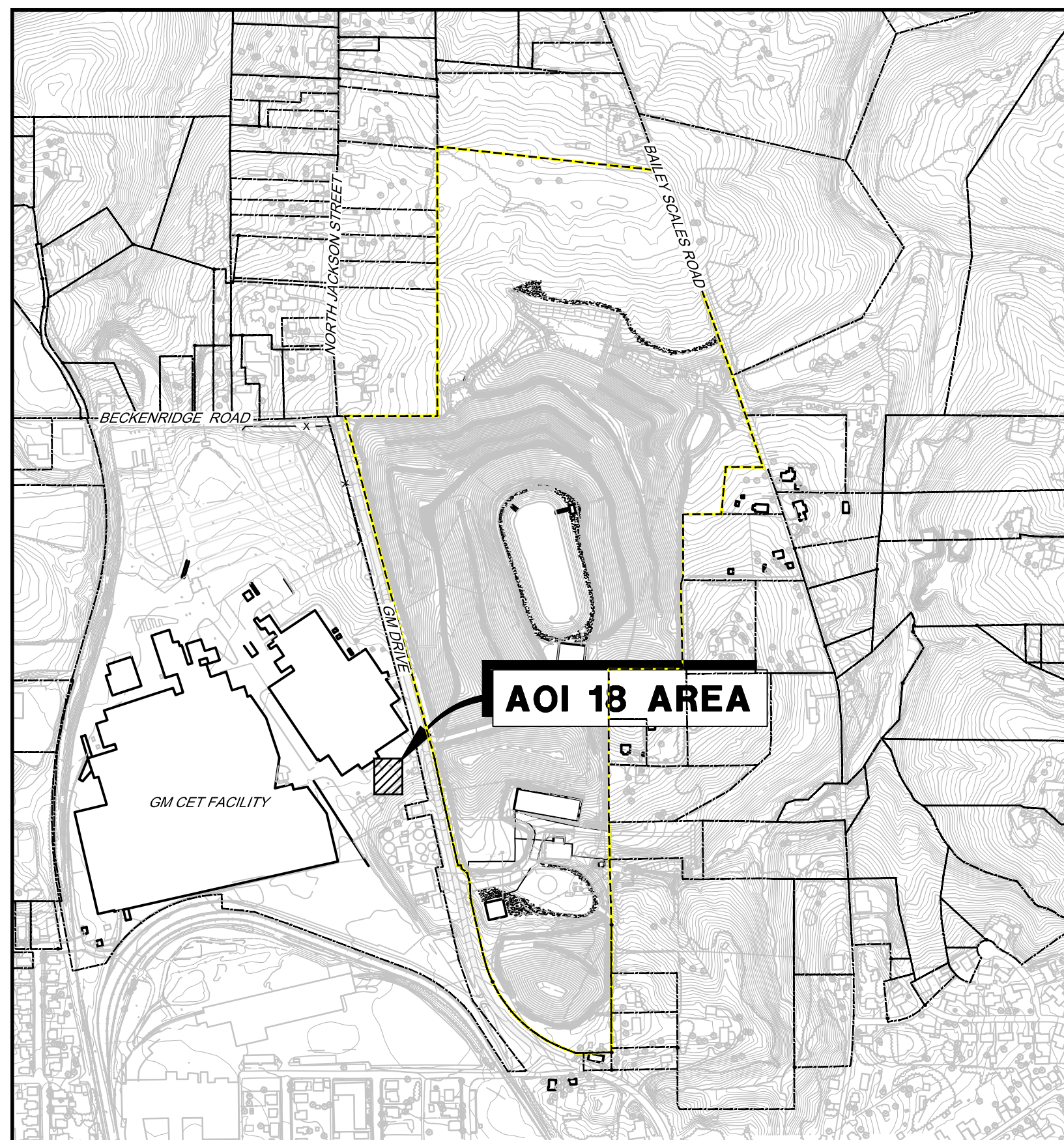
**GM CET BEDFORD FACILITY
BEDFORD, INDIANA**
CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA
AOI 21 AREA 1 FINAL RESTORATION

CRA CONESTOGA-ROVERS & ASSOCIATES

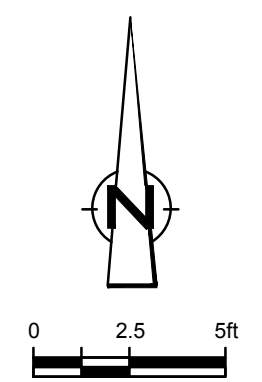
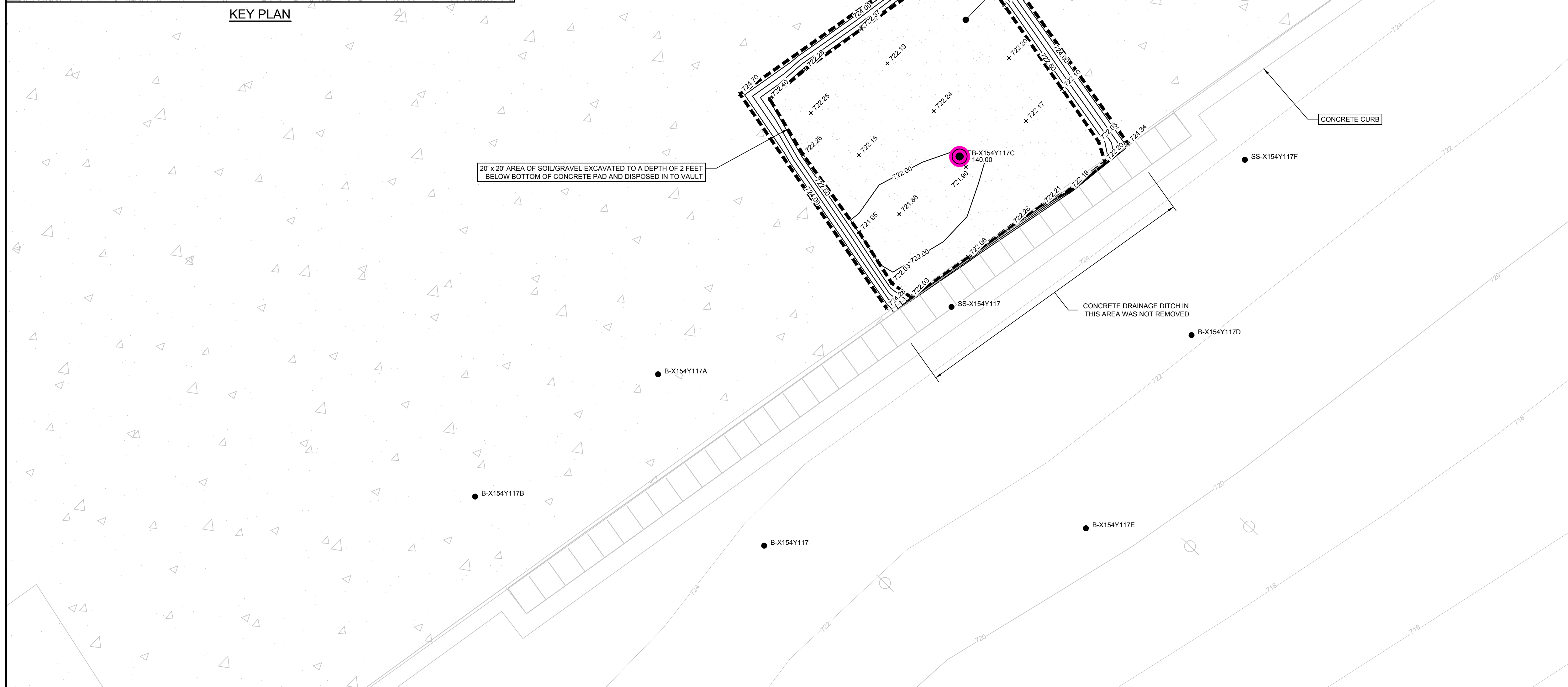
Source Reference:
BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001
SEWER SURVEY COMPLETED BY PROFESSIONAL ENGINEERING ASSOCIATES, TROY, MI, JUNE 2000

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: 1"=20'	Project No: 13968-00	Report No: 302
		Drawing No: C-22

13968-00(302)CI-WA024 NOV 11/2014



KEY PLAN



No	Revision	Date	Initial

LEGEND

- EXCAVATION LIMIT
- FINAL EXCAVATION ELEVATION CONTOURS (feet AMSL) (FROM BRG POINTS 2008)
- SS-X154Y117G SOIL SAMPLE LOCATION
- B-X154Y117 BOREHOLE
- B-X154Y117C BOREHOLE IDENTIFICATION PCB CONCENTRATION (ppm)
- COLLECTED SAMPLE WITH TOTAL PCBs EQUAL TO OR GREATER THAN 50 ppm

RECORD DRAWINGS
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SCALE VERIFICATION
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved _____

DRAWING STATUS

Status	Date	Initial
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH

**GM CET BEDFORD FACILITY
 BEDFORD, INDIANA**

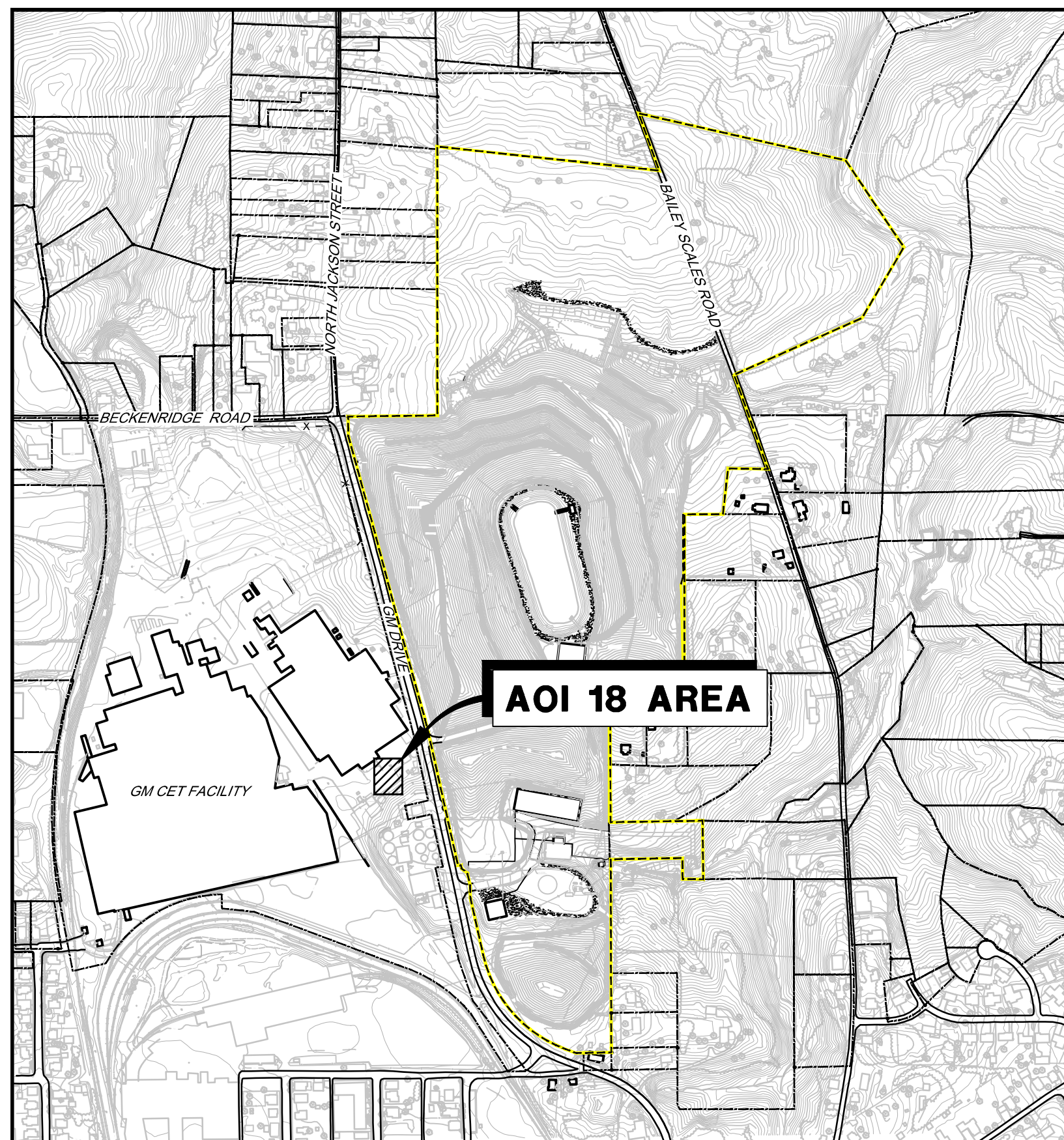
CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA

AOI 18 EXCAVATION OF ≥ 50 mg/kg PCBs TOPOGRAPHY

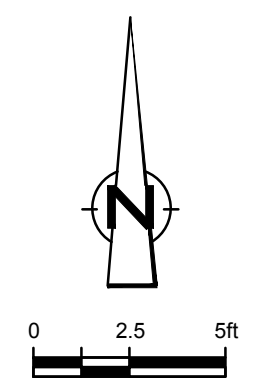
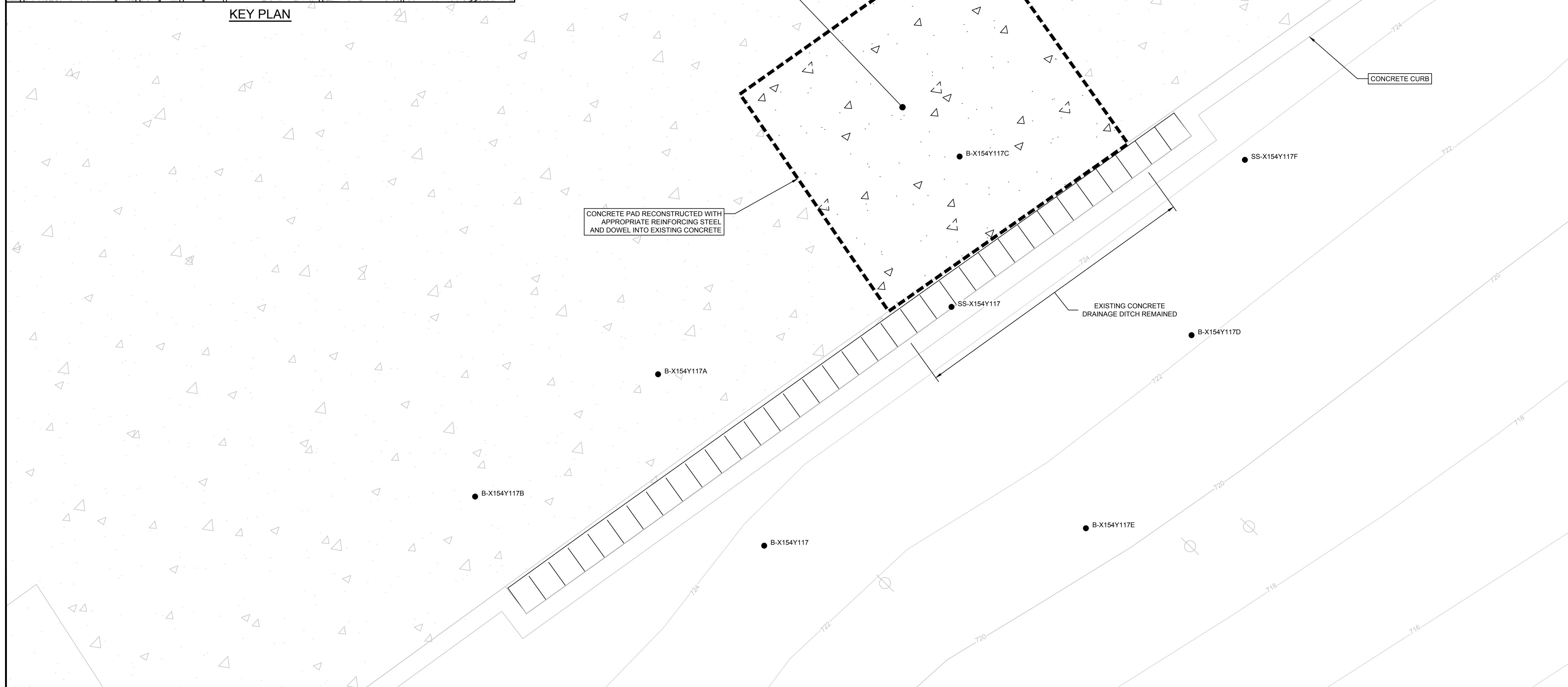
CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: 1" = 5'	Project No: 13968-00	Report No: 302
		Drawing No: C-23



KEY PLAN



No	Revision	Date	Initial

LEGEND

	CONCRETE RESTORATION LIMIT
	SS-X154Y117G SOIL SAMPLE LOCATION
	B-X154Y117 BOREHOLE

RECORD DRAWINGS
 THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED ON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, CRA CAN NOT AND DOES NOT WARRANT ITS ACCURACY AND/OR COMPLETENESS, AND THUS SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED HEREIN AS A RESULT. THOSE RELYING ON THIS RECORD DRAWING ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY AND/OR COMPLETENESS BEFORE USING IT FOR ANY PURPOSE.

SCALE VERIFICATION
 THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved _____

DRAWING STATUS

Status	Date	Initial
AS-RECORDED - ISSUED FOR EPA REVIEW	NOV. 11, 2014	CRH

**GM CET BEDFORD FACILITY
 BEDFORD, INDIANA**
 CONSTRUCTION CERTIFICATION REPORT-WEST PLANT AREA
 AOI 18 FINAL RESTORATION

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
 BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001

Project Manager: J.M.	Reviewed By: C.R.H.	Date: SEPTEMBER 2014
Scale: 1" = 5'	Project No: 13968-00	Report No: 302
		Drawing No: C-24

Appendix C

Approvals Including:

- C.1 West Plant Area Approvals
- C.2 Abandonment of MH-ST-43 Catch Basin
- C.3 Manifesting Question – TSCA Waste to On-Site Vault
- C.4 Request to Modify Cap in West Parking Lot

Appendix C.1

West Plant Area Approvals



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

APR 15 2008

L-8J

Cheryl R. Hiatt, Project Manager
General Motors Corporation
Worldwide Facilities Group Remediation Team
2000 Centerpoint Parkway (483-520-190)
Pontiac, Michigan 48341-3147

Re: General Motors Corporation Request for Modification to the October 26, 2006
Toxic Substances Control Act Approval to Dispose of Polychlorinated Biphenyls

Dear Ms. Hiatt:

The U.S. Environmental Protection Agency has reviewed your October 5, 2007 request for a modification to the October 26, 2006 Approval (Approval) EPA issued to General Motors Corporation (GM). The Approval allowed GM to dispose of over 50 parts per million (ppm) material excavated from the Northern Tributary and East Plant Area at GM's Bedford Powertrain Facility (Facility) into the on-site constructed landfill vault (vault).

You are requesting a change to the Scope of Work of the Approval that would allow GM to dispose of approximately 1,407 cubic yards (cy) excavated from a portion of the Facility located west of GM Drive (West Plant Area) into the vault. Additionally, material excavated from Parcel 201 of the East Plant Area would be disposed of in the vault.

We are granting this modification to the Approval based on our review of information in your October 5, 2007 request, additional information provided in the *Request for Amendment 40 CFR 761.61(c) Approval Over 50 mg/kg PCB Soil Source Removal and Cover System Design West Plant Area* dated December 12, 2007, and supplemental information provided in response to EPA comments. EPA approves this modification provided disposal of the material excavated from the West Plant Area and Parcel 201 does not exceed the 135,000 cy capacity of the vault. If it does, the excess material must be disposed of in an off-site facility permitted to accept PCB material. To verify that GM has not exceeded the capacity of the vault, you must submit a weekly report to EPA itemizing the amount of material from the West Plant Area and Parcel 201 deposited in the vault and the remaining capacity of the vault. This report must be sent to Jean Greensley, of my staff, at the above address or submitted via email to greensley.jean@epa.gov.

This modification to the Approval is effective today and is issued pursuant to 40 CFR § 761.61(c) of the federal PCB regulations. This modification is solely for the disposal of the material generated from the West Plant Area. Disposal of the material excavated from Parcel 201 is covered under the Scope of Work of the October 26, 2006 Approval. No other PCB contaminated material may be disposed of in the vault. EPA will decide whether GM's backfilling and restoration plan for the West Plant Area excavation is acceptable once additional investigative activities in this area are performed to EPA's satisfaction. EPA will notify GM of our decision on the West Plant Area excavation in a separate letter.

This modification to the Approval does not relieve GM from the responsibility to comply with all applicable provisions of the Toxic Substances Control Act (TSCA) and the federal PCB regulations or any other applicable federal, state or local regulations. Since the State of Indiana has adopted the federal PCB regulations, no material from the West Plant Area may be disposed of in the vault until GM receives an approval for this activity from the state. This modification to the Approval does not preclude EPA from initiating an enforcement action, including seeking civil penalties, for violations of TSCA or the federal PCB regulations.

If you have any questions regarding this approval, please contact Jean Greensley at (312) 353-1171.

Sincerely,

A handwritten signature in black ink, appearing to read "Bruce F. Sypniewski". The signature is fluid and cursive, with the first name being the most prominent.

Bruce F. Sypniewski, Deputy Director
Land and Chemicals Division

cc: Gerald O'Callahan, IDEM
George Ritchotte, IDEM



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels, Jr.

Governor

Thomas W. Easterly

Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204

(317) 232-8603

Toll Free (800) 451-6027

www.idem.IN.gov

VIA CERTIFIED MAIL: 700 0510 0004 2616 3500

April 28, 2008

Ms. Cheryl R. Hyatt, Project Manager
General Motors Corporation
Worldwide Facilities Group
2000 Centerpoint Parkway
Mail Code: 483-520-190
Pontiac, Michigan 48341-3147

Re: Modification Request to
PCB Risk-Based Disposal Approval
General Motors Powertrain Bedford Facility
EPA ID # IND006036099
Bedford, Lawrence County

Dear Ms. Hyatt:

The Indiana Department of Environmental Management (IDEM) has completed its review of the General Motors Corporations request for modification to the PCB Risk-Based Disposal Approval (Approval), issued by the IDEM on October 26, 2006. The Approval allows for the disposal of 50 ppm and over PCB waste generated during remediation activities at the "East Plant" area at the General Motors Powertrain Bedford Facility and the Northern Tributary, into an on-site constructed landfill vault (vault). The Approval specifically outlined the "Conditions for Approval" to ensure protection of human health and the environment during disposal.

Specifically, this request for modification from General Motors' is to allow for the additional placement of approximately 1,407 cubic yards of 50 ppm and over PCB waste generated from remediation activities at the facility located west of GM Drive, known as the "West Plant Area."


IDEM hereby approves General Motors request to modify the PCB Risk-Based Disposal Approval to include the disposal of remediation wastes from the "West Plant Area." With regard to General Motors request to also modify the Approval to include materials excavated from Parcel 201 of the East Plant Area, IDEM has determined that approval for this material has already been given within the original PCB Risk-Based Disposal Approval.

Please note that this modified approval does not supercede the original allowance within the PCB Risk-Based Disposal Approval, which capped disposal volumes at approximately 125,000 cubic yards to be placed into the "vault." Any additional wastes generated must be disposed off-site at a facility permitted to accept such waste(s). The IDEM reserves the right to revoke this modification approval if it is determined that such disposal possesses a risk to human health or the environment.

Pursuant to IC 4-21.5, a Petition for Review of this approval letter may be initiated by you, as applicant, or by an "aggrieved or adversely affected person". This approval becomes effective once all applicable time periods for petitioning for Stay of Effectiveness have expired, unless you are notified in writing by an Environmental Law Judge that the approval has been further stayed. As discussed in the enclosed "Notice of Decision", if you wish to challenge this decision, you must file a Petition for Review with the Office of Environmental Adjudication within eighteen (18) days from the date that this approval letter was mailed, pursuant to IC 4-21.5-3-7.

If you have further questions regarding this matter, please contact Mr. George Ritchotte of the Office of Land Quality's Industrial Waste Section at (317) 308-3123.

Sincerely,

A handwritten signature in cursive script that reads "Bruce H. Palin".

Bruce H Palin
Assistant Commissioner
Office of Land Quality

Enclosures

cc: Lawrence County Health Department



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

NOTICE OF DECISION
YOUR RIGHT TO REQUEST AN ADMINISTRATIVE REVIEW
PURSUANT TO INDIANA CODE 4-21.5-3-5

Pursuant to IC 4-21.5-3-7, review of this decision may be initiated by the person to whom the decision is specifically directed or any aggrieved or adversely affected person.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that a written petition for administrative review be filed. This petition describing your intent must be submitted to:

**Office of Environmental Adjudication
Indiana Government Center North
Room N501
100 N. Senate Ave.
Indianapolis, IN 46204-2200**

within eighteen (18) days of the mailing of this notice.

If the eighteenth day falls on a Saturday, Sunday, legal holiday, or other day our offices are closed during regular business hours, then you have until the next day that our offices are open during regular business hours to file your petition. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing: (1) The date the document is delivered to the Office of Environmental Adjudication (OEA). (2) The date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail. (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to OEA by private carrier.

This petition must include facts demonstrating that the petitioner is the applicant, a person aggrieved by the decision, or a person entitled to review by law. Identifying the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, or date of this notice will expedite review of the petition.

Pursuant to IC 4-21.5-3-5(d), the Office of Environmental Adjudication will provide the petitioner or any person requesting notice with notice of prehearing conferences, preliminary hearings, hearing stays or orders disposing of the petition for review if written request for such notice is submitted to the OEA at the above address. If you have any procedural or scheduling questions regarding your petition, the OEA may be contacted at (317) 232-8591. However, if you have technical or substantive questions about this matter, please contact George Ritchotte at 317/308-3123.

We also request that you submit a copy of your petition to:

**Rosemary Cantwell, Chief
Industrial Waste Section 1
Compliance and Response Branch
Office of Land Quality
100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015**

Pursuant to IC 4-21.5-3-5(f) and 4-21.5-3-5(h), this decision takes effect eighteen (18) days from the mailing of this notice. If the eighteenth day falls on a Saturday, Sunday, legal holiday, or other day our offices are closed during regular business hours, then the decision does not take effect until the next day that our offices are open during regular business hours. If a petition for review and a petition for stay of effectiveness are filed before the decision becomes effective, then any part of the decision that is within the scope of the petition for stay is stayed for an additional fifteen (15) days. Any part of the decision not within the scope of the petition for stay is not stayed.

gar/4/2008



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

VIA CERTIFIED MAIL: 7002 0510 0004 2616 2367

July 7, 2008

Ms. Cheryl R. Hyatt, Project Manager
General Motors Corporation
Worldwide Facilities Group
2000 Centerpoint Parkway
Mail Code: 483-520-190
Pontiac, Michigan 48341-3147

Re: Modification Request to
PCB Risk-Based Disposal Approval
General Motors Powertrain Bedford Facility
EPA ID # IND006036099
Bedford, Lawrence County

Dear Ms. Hyatt:

The Indiana Department of Environmental Management (IDEM) has completed its review of the May 20, 2008, General Motors Corporations (GM) request for modification to the PCB Risk-Based Disposal Approval (Approval), issued by IDEM on October 26, 2006. This latest modification request was submitted to further clarify that the specific vault capacity that was previously listed in the above mentioned approval, and the April 28, 2008 modification, was based on an approximate rounded volume. You further indicated that the more specific capacity that the vault would allow for the disposal, in an un-rounded amount, would be 135,462 cubic yards.

This Office would not object to the placement of up to 135,462 cubic yards of ≥ 50 ppm PCB impacted soils and debris from locations discussed in the October 26, 2006 and April 28, 2008 approvals, provided that those additional volumes will not impact the vault's abilities to be a protective disposal means for those wastes. If it is determined that the additional volumes are/will cause such problems, GM must cease disposal and initiate immediate corrective measures that would include proper disposal off-site. Volumes of waste generated during remedial activities exceeding this specific capacity must also be disposed in an appropriate off-site manner.

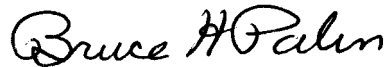
IDEM hereby approves GM's request to modify the PCB Risk-Based Disposal Approval to allow for a maximum total volume of 135,462 cubic yards of PCB impacted waste to be disposed in the vault. Please note that all other previous conditions noted in the October 26, 2006 and April 28, 2008 approvals still apply. IDEM reserves the right to revoke this modification approval if it is determined that such additional volumes possess a risk to human health or the environment.

Modification Request to PCB Risk-Based PCB Approval
General Motors Powertrain Bedford
Ms. Hyatt
Page 2

Pursuant to IC 4-21.5, a Petition for Review of this permit letter may be initiated by you, as applicant, or by an "aggrieved or adversely affected person". This permit becomes effective once all applicable time periods for petitioning for Stay of Effectiveness have expired, unless you are notified in writing by an Environmental Law Judge that the permit has been further stayed. As discussed in the enclosed "Notice of Decision", if you wish to challenge this decision, you must file a Petition for Review with the Office of Environmental Adjudication within eighteen (18) days from the date that this permit letter was mailed, pursuant to IC 4-21.5-3-7.

If you have further questions regarding this matter, please contact Mr. George Ritchotte of the Office of Land Quality's Industrial Waste Section at (317) 308-3123.

Sincerely,

A handwritten signature in cursive script that reads "Bruce H. Palin".

Bruce H Palin
Assistant Commissioner
Office of Land Quality

Enclosure

cc: Lawrence County Health Department



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

AUG 15 2008

REPLY TO THE ATTENTION OF:

LC-8J

Ms. Cheryl R. Hiatt
Project Manager
General Motors Corporation
Worldwide Facilities Group Remediation Team
2000 Centerpoint Parkway (483-520-190)
Pontiac, Michigan 48341-3147

Re: General Motors Corporation Request for Modification to the October 26, 2006
Toxic Substances Control Act Approval to Dispose of Polychlorinated Biphenyls

Dear Ms. Hiatt:

The U.S. Environmental Protection Agency, Region 5, has reviewed your May 20, 2008 request for Modification to the October 26, 2006 and April 15, 2008 Toxic Substances Control Act (TSCA) Approvals to Dispose of Polychlorinated Biphenyls (PCBs). The April 15 letter allowed GM to dispose of over 50 mg/kg PCB soils generated from the West Plant Area excavation at GM's Bedford Powertrain Facility (Facility) into the on-site constructed landfill vault (vault).

Your response letter provides clarification that the vault fill capacity of 135,000 cubic yards, as noted in the October 26, 2006 approval, was based on an approximate capacity and that the actual design capacity is 135,462 cubic yards. You further clarify that GM will submit weekly reports to EPA itemizing the amounts deposited in the vault and the remaining vault capacity. GM should dispose of any remaining ≥ 50 mg/kg PCB soils in excess of 135,462 cubic yards in accordance with the July 31, 2003 Administrative Order on Consent.

Your letter further proposes an approach for the approval timing of the West Plant excavation backfilling and restoration. High levels of PCBs have been found in the deep, native soil layers within this area, and it is understood that not all of this material can be removed due to infrastructure concerns. As you are aware from discussions with EPA staff, EPA's concern with this area is to ensure that there is no PCB migration to and from the area. Based on discussions with GM staff, it is understood that, during the West Plant AOI 21-2 excavation, GM will evaluate the sewer lines and sewer line bedding as potential migration pathways for PCB impacted materials and sample the sediments contained within the lines and the bedding around the sewer lines. GM will abandon or remove those lines no longer in use and restore sewer and/or water lines which will remain in use. Given the infrastructure concerns in this area, EPA agrees with GM's proposed excavation and backfilling approach with the condition that, because not all high concentration PCB impacted materials can be feasibly removed from this area, GM

will incorporate the addition of overburden and bedrock groundwater monitoring wells into the parking lot/restoration design at optimal locations and depths. Should monitoring reveal that migration control in addition to that provided by the perimeter trench system is required, GM should be prepared to install an engineered groundwater collection system at AOI 21-2. EPA will inform GM promptly should additional remediation be required within the excavation prior to backfilling based on the daily GM provided photos and updates. If EPA staff schedules allow, an on-site inspection of the excavation will be scheduled.

This modification to the October 26, 2006 vault approval and the April 15, 2008 approval is effective today and is issued under the TSCA and the federal PCB regulations at 40 C.F.R. § 761.61(c), Risk-Based Disposal Approval. It is based on the collective site-specific factors and information that you submitted and we reviewed as part of the East Plant Area Interim Measure and the West Plant excavation, backfilling and restoration, and is applicable to the GM Powertrain, Bedford, Indiana facility only. Specifically, it is based on the complete and effective implementation of the components and tasks of the East Plant Area Interim Measure and the West Plant excavation, backfilling and restoration in a manner that will not present an unreasonable risk to human health or the environment. The components and tasks include the implementation of Institutional Controls, the Area of Interest 8 NAPL Source Removal System, the East Plant Area Perimeter Groundwater Collection System, and the West Plant excavation, backfilling and restoration procedures outlined in paragraph three of this letter. Failure to completely and effectively implement any of these components and tasks may result in the requirement to dispose of the PCB impacted soils at a different site.

This modification to the approval does not relieve GM from the responsibility to comply with all applicable provisions of the TSCA and the federal PCB regulations or any other applicable federal, state or local regulations. Since the State of Indiana has adopted the federal PCB regulations, GM must receive an approval from the state. This modification to the approvals does not preclude EPA from initiating an enforcement action, including seeking civil penalties, for violations of TSCA or the federal PCB regulations.

If you have any questions regarding this approval, please contact Jean Greensley at (312) 353-1171 or Peter Ramanauskas at (312) 886-7890.

Sincerely,



Bruce F. Sypniewski
Deputy Director
Land and Chemicals Division

cc: Mr. Gerald O'Callahan, IDEM
Mr. George Ritchotte, IDEM

Appendix C.2

Abandonment of MH-ST-43 Catch Basin

Wallace, Jack

From: McGuigan, Jim
Sent: Wednesday, January 16, 2008 8:48 AM
To: Filing
Subject: 13968 Bedford - FW: Abandonment of MH-ST-43 Catch Basin

From: ed.e.peterson@gm.com [mailto:ed.e.peterson@gm.com]
Sent: Monday, January 14, 2008 7:31 AM
To: Kamm, Katie; McGuigan, Jim
Cc: cheryl.r.hiatt@gm.com; Daniel, Jeff; Kelly, Mary
Subject: Re: Abandonment of MH-ST-43 Catch Basin

FYI

Edward Peterson
General Motors WFG-Environmental Services
Pontiac Centerpoint Campus MC 483-520-190
2000 Centerpoint Parkway
Pontiac, MI 48341-3147

Phone: (248) 753-5849
Fax: (248) 753-5829

Ramanauskas.Peter@epamail.epa.gov

01/11/2008 06:11 PM

To cheryl.r.hiatt@gm.com, ed.e.peterson@gm.com
cc GOCALLAG@idem.in.gov, Greensley.Jean@epamail.epa.gov,
Stimple.Brad@epamail.epa.gov, kkamm@croworld.com
Subject Abandonment of MH-ST-43 Catch Basin

Cheryl/Ed,

Please proceed with abandonment of the MH-ST-43 catch basin and associated 22-inch inlet, 24-inch outlet and 48-inch outfall piping as described in the April 23, 2007 IM Work Plan for the West Plant Area. Upon removal of the catch basin, sample soils for PCB beneath at a few intervals to bedrock to evaluate conditions.

Thanks,
Pete

8/11/2009

Appendix C.3

Manifesting Question – TSCA Waste to On-Site Vault

McGuigan, Jim

From: McGuigan, Jim
Sent: Tuesday, February 06, 2007 3:04 PM
To: 'Ramanauskas.Peter@epamail.epa.gov'; cheryl.r.hiatt@gm.com; ed.e.peterson@gm.com
Cc: Stimple.Brad@epamail.epa.gov; Grady, Sean; Romzick, Peter; Kamm, Katie; Bridcut, Pete; Filing
Subject: 13968 Bedford RE: Manifesting Question - TSCA Waste to On-Site Vault

Pete,
Thanks for the confirmation.

Jim McGuigan

-----Original Message-----

From: Ramanauskas.Peter@epamail.epa.gov [mailto:Ramanauskas.Peter@epamail.epa.gov]
Sent: Tuesday, February 06, 2007 2:39 PM
To: cheryl.r.hiatt@gm.com; ed.e.peterson@gm.com
Cc: McGuigan, Jim; Stimple.Brad@epamail.epa.gov
Subject: Manifesting Question

Cheryl/Ed/Jim,

According to Jean & Tony, since GM is the generator and the disposer, there is no need to manifest.

From the EPA PCB Q&A Manual:

§761.207 The Manifest - General Requirements

Q: Can a company that sends PCB wastes to its affiliated company for purposes of consolidation prior to disposal treat those shipments as internal consolidation not subject to the PCB manifesting requirements at 40 C.F.R. §761.207?

A: Yes, provided the "affiliated company" qualifies as a "related company" as discussed in the definition of "commercial storer" in §761.3.

Let me know if you have other questions.

P

Appendix C.4

Request to Modify Cap in West Parking Lot

Gallaway, Paul

From: Ramanauskas.Peter@epamail.epa.gov
Sent: Tuesday, November 04, 2008 10:02 AM
To: cheryl.r.hiatt@gm.com
Cc: stimple.brad@epa.gov; ed.e.peterson@gm.com; gocallag@idem.in.gov; Daniel, Jeff; McGuigan, Jim; Kamm, Katie; Gallaway, Paul; Hoekstra, Rick; Greensley.Jean@epamail.epa.gov
Subject: Re: Request to Modify Cap in West Parking lot

Cheryl,

Jean & I are OK with the use of 18-inches of clay beneath the asphalt lot at the west plant & look forward to receiving the design drawings.

Thanks,
Pete

cheryl.r.hiatt@g
m.com

10/31/2008 05:27
AM

Peter

Ramanauskas/R5/USEPA/US@EPA, BRAD
STIMPLE/R5/USEPA/US@EPA,
gocallag@idem.in.gov

To

cc

ed.e.peterson@gm.com,
rhoekstra@croworld.com, "Daniel,
Jeff" <jdaniel@croworld.com>,
jmcguigan@croworld.com,
kkamm@croworld.com,
pgallaway@croworld.com

Subject

Request to Modify Cap in West
Parking lot

Peter:

We intend to use the same cap design in the West Plant parking lot area as the East Plant parking area, except that we request a minor modification under the asphalt. In the East Plant parking area GM had requested that CRA put 24 inches of clay beneath the parking lot subgrade as we wanted to be sure if parking lot maintenance occurred that workers had a protective layer between them and the contamination. The 24 inches thickness was purely arbitrary and not required under TSCA asphalt caps. We are requesting that this clay layer be reduced to 18 inches (which still gives a good

barrier with the thickness of the asphalt and gravel base), but helps CRA tie the asphalt cap into the Cover system on the side slopes of the parking lot at the same depth. Below is CRA's reasoning:

The East Plant Area Cover System Design Report states that the hard surface cover meets the requirements of 40 CFR 761.61 (a) (7). This specifically requires that a cap consist of a "uniform placement of concrete, asphalt, or similar material of minimum thickness spread over the area where remediation waste was removed or left in place in order to prevent or minimize human exposure, infiltration of water, and erosion. A concrete or asphalt cap shall have a minimum thickness of 15 cm (6 inches)". Nothing in 40 CFR 761.61 requires that we line the underside of the asphalt cover (6" asphalt and 6" granular base) with compacted clay. This additional layer of common fill (compacted clay) was added by GM to the design in order to prevent exposure to future maintenance workers who might rebuild/repair the parking lot (or portions thereof) in the future.

CRA proposes that the clay thickness be reduced from 24 inches to 18 inches, as this would still provide a similar level of protection with little technical difference (depth to impacted fill would be 2.5 feet below grade instead of 3.0 feet). The reason for this is that the subgrade over the West Plant Area could then be placed to a consistent depth of 2.5 feet below final grade, as the grass cover includes 12 inches of clay, 12 inches of common fill, and 6" of topsoil (also 2.5 feet). This email is being sent in advance of submitting the final West Plant Area parking lot drawings in order to avoid any unnecessary delay in receiving approval of the design.

Cheryl Hiatt
GM Remediation Team
Engineering West, Mail Code 480-111-W60
30200 Mound Rd
Warren, MI 48090
Telephone 313-510-4328
Fax 586-986-2281
Mobil 313-510-4328

Appendix D

Photographic Log

- D.1 MH-ST-43
- D.2 AOI 18
- D.3 AOI 21 Area 1
- D.4 AOI 21 Area 2

Appendix D.1

MH-ST-43



Photo No. 1: MH-ST-43 - Pre-construction conditions (showing sinkhole), facing northeast. April 2008.



Photo No. 2: MH-ST-43 – Pre-excavation, facing northeast. May 2008.

Construction Certification Report - West Plant Area RCRA CA IM
GM CET Bedford Facility
Bedford, Indiana



Photo No. 3: MH-ST-43 - Installation of temporary controls, facing northeast. June 2008.



Photo No. 4: MH-ST-43 – Introduction of flowable fill into pipes, facing down. June 2008.

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GM CET Bedford Facility
Bedford, Indiana



Photo No. 5: MH-ST-43 – Viewing port, facing down. June 2008.



Photo No. 6: MH-ST-43 - Backfilling of sinkhole, facing northwest. June 2008.

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GM CET Bedford Facility
Bedford, Indiana



Photo No. 7: MH-ST-43 – Placement of stone around culvert, facing north. June 2008.



Photo No. 8: MH-ST-43 – Excavation of MH-ST-43, facing southwest. June 2008.

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GM CET Bedford Facility
Bedford, Indiana



Photo No. 9: MH-ST-43 – Backfilling of MH-ST-43, facing northeast. June 2008.



Photo No. 10: MH-ST-43 - Embankment grading, facing northeast. July 2008.

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Photo No. 11: MH-ST-43 – Embankment grading, facing north. July 2008.



Photo No. 12: MH-ST-43 - Forming concrete around monitoring well, facing northeast. July 2008.

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Photo No. 13: MH-ST-43 – Restored embankment, facing north. September 2008.

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Appendix D.2

A01 18



Photo No. 14: AOI 18 – Saw cutting, facing southeast. July 2008.



Photo No. 15: AOI 18 - Breaking concrete using hoe ram, facing northeast. July 2008.

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Photo No. 16: AOI 18 – Removal of concrete slab, facing west. July 2008.



Photo No. 17: AOI 18 - Excavation of ≥ 50 mg/kg PCB material, facing west. July 2008.

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Bedford, Indiana





Photo No. 18: AOI 18 - Installation of geotextile, facing east. July 2008.



Photo No. 19: AOI 18 – Backfilling with clean stone, facing southeast. July 2008.

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GM CET Bedford Facility
Bedford, Indiana



Photo No. 20: AOI 18 – Placement of wire mesh prior to concrete pour, facing southwest. July 2008.



Photo No. 21: AOI 18 – Installation of concrete pad (air intrusion, leveling, and smoothing), facing southwest. July 2008.

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Bedford, Indiana





Photo No. 22: AOI 18 – Installation of expansion joint, facing southwest. July 2008.



Photo No. 23: AOI 18 – Restored concrete slab, facing southwest. July 2008.

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Bedford, Indiana





Photo No. 24: AOI 18 – Cured concrete slab, facing southwest. July 2008.

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Bedford, Indiana



Appendix D.3

AO1 21 Area 1



Photo No. 25: AOI 21-1 – Construction preparation, facing southeast. May 2008.



Photo No. 26: AOI 21-1 – Excavation of ≥ 50 mg/kg PCBs material, facing northeast. June 2008.

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Bedford, Indiana



Photo No. 27: AOI 21-1 – Material loading for transport, facing north. June 2008.



Photo No. 28: AOI 21-1 – Excavation of ≥ 50 mg/kg PCBs material, facing west. June 2008.

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Bedford, Indiana





Photo No. 29: AOI 21-1 – Backfilling, facing southwest. June 2008.

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Bedford, Indiana

Appendix D.4

AO1 21 Area 2



Photo No. 30: AOI 21-2 – Pre-construction conditions, facing southwest. July 2008



Photo No. 31: AOI 21-2 – Vectren gas line locating, facing south. July 2008.

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GM CET Bedford Facility
Bedford, Indiana



Photo No. 32: AOI 21-2 – Staging pad for <50 mg/kg PCB material. July 2008.

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GM CET Bedford Facility
Bedford, Indiana



Photo No. 33: AOI 21-2 – Installation of storm sewer, facing east. August 2008.

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Bedford, Indiana



Photo No. 34: AOI 21-2 – Compaction of backfill around storm sewer, facing east. August 2008.



Photo No. 35: AOI 21-2 – Installation of manhole, facing southeast. August 2008.

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GM CET Bedford Facility
Bedford, Indiana



Photo No. 36: AOI 21-2 – Placement of temporary cover for <50 mg/kg PCB material stockpile, facing southwest. August 2008.



Photo No. 37: AOI 21-2 – Installation of AT&T cable conduit, facing south. August 2008.

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Bedford, Indiana





Photo No. 38: AOI 21-2 – Excavation of ≥ 50 mg/kg PCB material lens, facing southwest. September 2008.



Photo No. 39: AOI 21-2 Excavation completion, facing north. October 2008.

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Bedford, Indiana





Photo No. 40: AOI 21-2 – Backfilling with < 50 mg/kg PCBs material, facing north. October 2008.



Photo No. 41: AOI 21-2 - Backfilling with <50 mg/kg PCBs material, facing west. October 2008.

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GM CET Bedford Facility
Bedford, Indiana



Photo No. 42: AOI 21-2 – Loading ≥ 50 mg/kg PCB material for disposal at Heritage Landfill in Roachdale, Indiana, facing west. November 2008.



Photo No. 43: AOI 21-2 – Temporary cover, pending temporary soil cover placement, facing west. November 2008.

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GM CET Bedford Facility
Bedford, Indiana





Photo No. 44: AOI 21-2 – Temporary soil cover, facing west. January 2009.



Photo No. 45: AOI 21-2 – Temporary soil cover, facing west. January 2009.

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GM CET Bedford Facility
Bedford, Indiana



Photo No. 46: AOI 21-2 – Erosion protection for temporary soil cover on slope, facing southwest. January 2009.



Photo No. 47: AOI 21-2 – Preparation for cover system construction, facing southwest. June 2011.

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GM CET Bedford Facility
Bedford, Indiana





Photo No. 48: AOI 21-2 – Raising of manhole to accommodate final parking lot elevation, facing southeast. June 2011.



Photo No. 49: AOI 21-2 – Installation of storm sewer piping for parking lot drainage, facing southwest. July 2011.

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Bedford, Indiana



Photo No. 50: AOI 21-2 – Placement of grading fill with <50 mg/kg PCBs soil from CERCLA Removal Action, facing west. July 2011.



Photo No. 51: AOI 21-2 – Installation of clay barrier layer, facing northwest. July 2011.

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Photo No. 52: AOI 21-2 – Erosion protection of clay barrier layer, facing west. July 2011.



Photo No. 53: AOI 21-2 – Placement of gravel base for parking lot, facing northwest. July 2011.

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Bedford, Indiana





Photo No. 54: AOI 21-2 – Installation of LLDPE liner, facing west. August 2011.



Photo No. 55: AOI 21-2 – Extrusion welding, facing west. August 2011.

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Bedford, Indiana





Photo No. 56: AOI 21-2 – Geonet drainage layer installation, facing west. August 2011.



Photo No. 57: Placement of common fill material, facing northwest. August 2011.

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Bedford, Indiana





Photo No. 58: AOI 21-2 – Placement of topsoil, facing west. August 2011.



Photo No. 59: AOI 21-2 – Parking lot curbing, facing south. August 2011.

Construction Certification Report - West Plant Area RCRA CA IM
GM CET Bedford Facility
Bedford, Indiana



Photo No. 60: AOI 21-2 – Installation of asphalt binder layer, facing northeast. August 2011.



Photo No. 61: Installation of seeding and erosion control, facing southwest. August 2011.

Construction Certification Report - West Plant Area RCRA CA IM
GM CET Bedford Facility
Bedford, Indiana





Photo No. 62: Installation of asphalt surface coat, facing northwest. August 2011.



Photo No. 63: Installation of security fence, facing north. September 2011.

Construction Certification Report - West Plant Area RCRA CA IM
GM CET Bedford Facility
Bedford, Indiana





Photo No. 64: AOI 21-2 – Completed cover system, facing west. September 2011.

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GM CET Bedford Facility
Bedford, Indiana



Appendix E

Concrete Mix Designs

- E.1 MH-ST-43 Pipe Flowable Fill
- E.2 AOI 18 Concrete Slab
- E.3 Construction Joint
- E.4 Previous Mix Designs

Appendix E.1

MH-ST-43 Pipe Flowable Fill

June 12, 2008

Mr. Mark Litz
IMI Bloomington Sales
Bloomington, IN

Re: **Bloomington, IN**

We are pleased to submit the following mix design for the above referenced project.

Description	3000 psi Gravel Air	Flexifill Cellular Flowable fill
<u>imi Mix Number</u>	<u>004</u>	<u>421</u>
Cement	340 lbs.	25 lbs
Flyash	100	400
#8 Gravel	1850	---
Sand	1450	2650
Water Reducer	13 oz.	---
Darafill CLSM	---	1 Egg
W/C	0.55	---
Water	242 lbs.	300-400 lbs
Air	5-8%	---
Slump	4+-1"	8" or Greater

120 PSI

MATERIAL SUPPLIERS & SPECIFICATIONS:

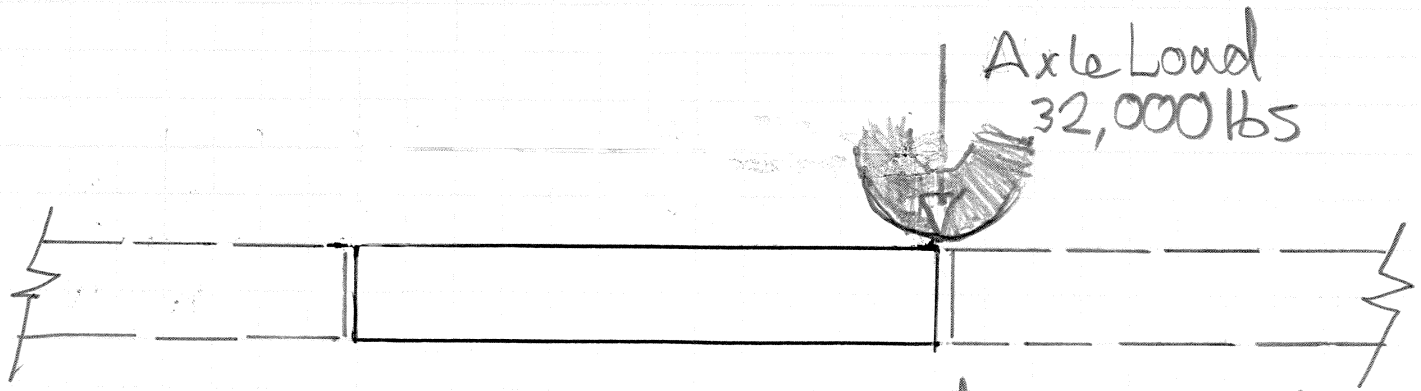
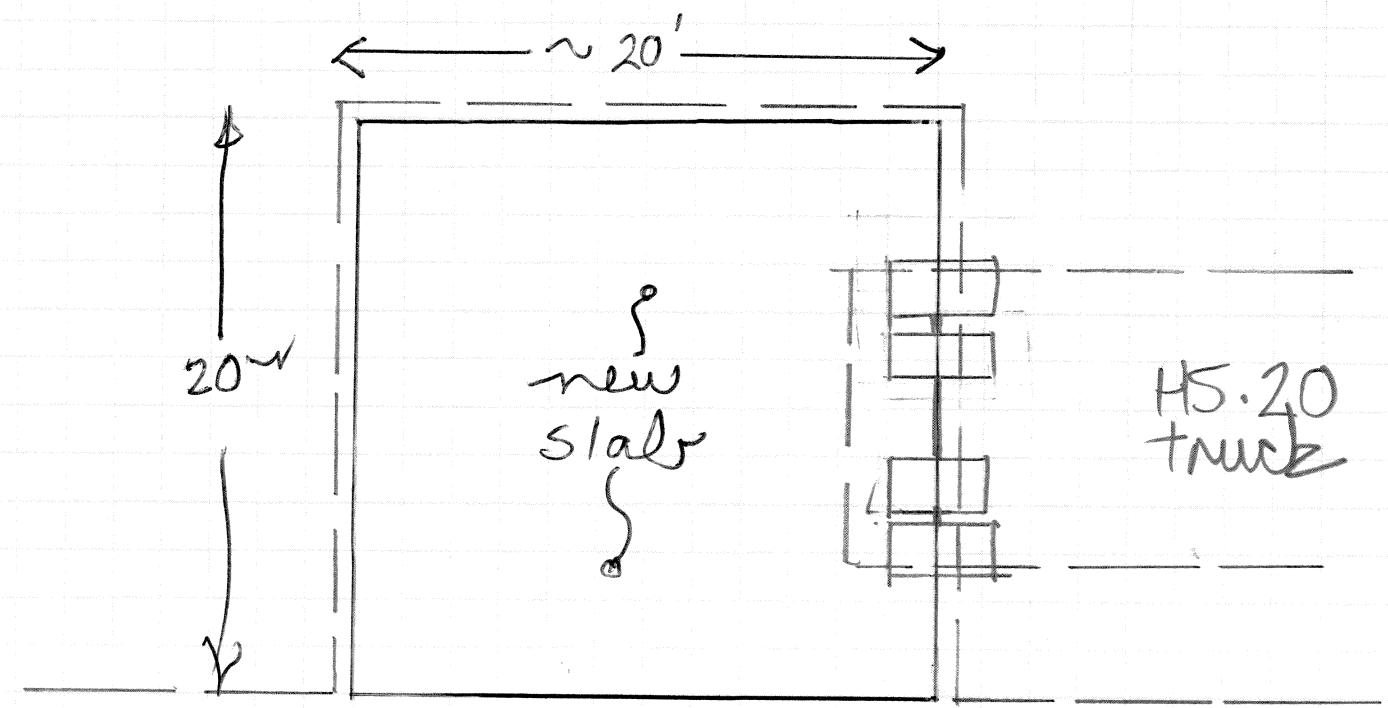
- Cement: ASTM C-150, Type I/II, Lehigh Cement Co.
- Admixtures ASTM C-494, Water Reducer, Type A, Glenium 3030, BASF
 - Optional: Mid Range Water Reducer, Glenium 3030, BASF
 - Optional: High Range Water Reducer Glenium 3030, BASF
 - Optional: Retarding Admixture Pozzoloth 100XR ASTM C-494 Type B, And Type D
 - Optional: non- chloride accelerator: Polarset, Grace Construction Products
- ASTM C-260 Air entrainment, Micro Air, BASF
- CLSM, Darafill, Grace Construction Products
- Aggregates: ASTM C-33 & INDOT specifications #23 Sand & #8 Gravel from Morgan Co. Rogers Group

Respectfully Submitted,

Toby Welpott
Irving Materials, Inc.

Appendix E.2

AOI 18 Concrete Slab



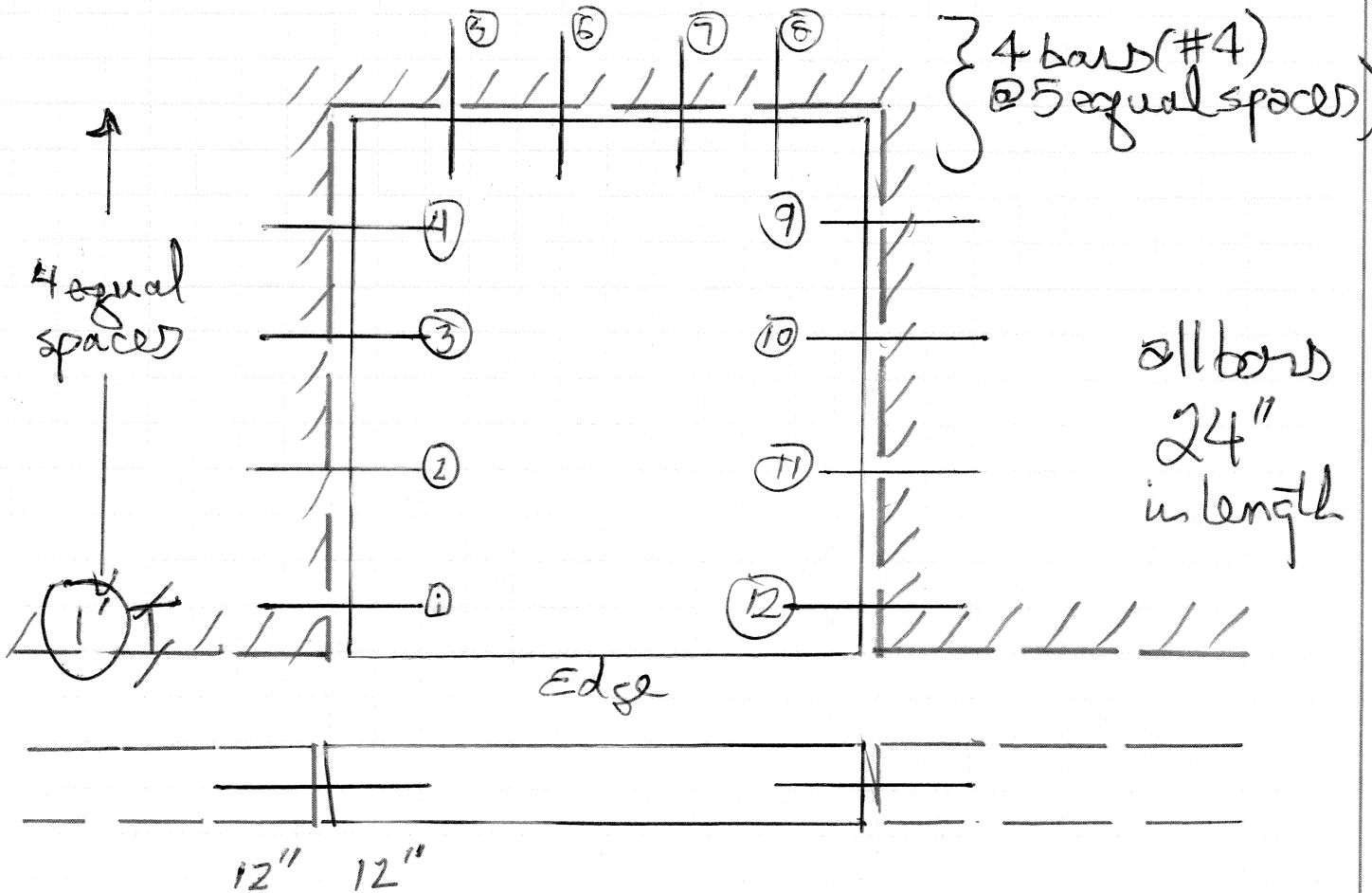
Assume negligible support from soil
ie dowels to take full shear

f_y reinforcing = 60,000 psi
 f_s reinforcing = 40,000 psi

Steel required $\frac{P}{f_s} = \frac{32,000 \#}{40,000 \text{ psi}} = 0.8 \text{ in}^2$

4 #4 bars on each edge = $4 \times 0.2 \text{ in}^2$

Embedment/development length
 l_d for #4 bars = 12"



Appendix E.3

Construction Joint

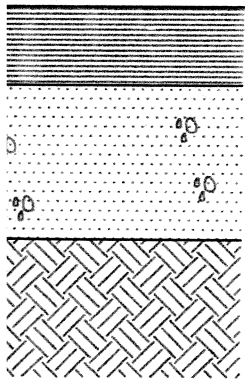
- 1.5" BITUMINOUS WEARING COURSE
IDOT SURFACE MIXTURE 9, LV.
- TACK COAT
- 4.5" TYPE C BITUMINOUS
LEVELING COURSE
IDOT BINDER MIXTURE 9, LV.
- 6" AGGREGATE BASE
- COMPACTED
SUBGRADE

SECTION

ER DRAINS FROM NEW
TO EXISTING PAVEMENT,
3 TO 4 FOOT AREA TO BE
OVERLAY WILL MATCH
PAVEMENT ELEVATION.

ADJACENT
AREAS
URES

AT VERTICAL
MILLED EDGE



INT

Y, BUT SHALL BE INCLUDED
(MS)

IRSE
AWCUT
NET DRAINAGE

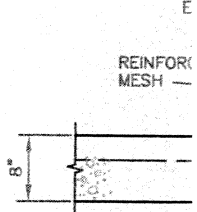
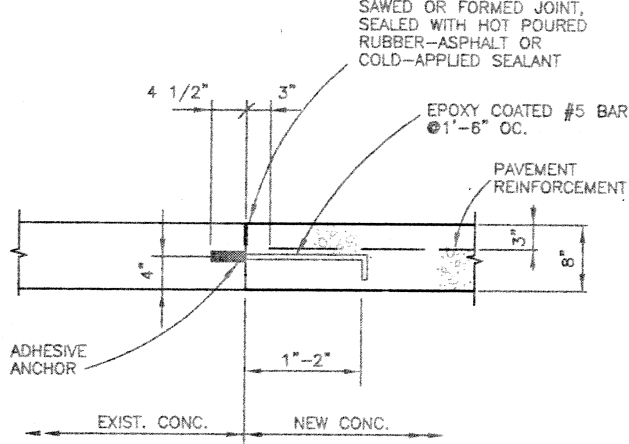
LEAD PAINT

EXPANSION JOINT

NOT TO SCALE

NOTE:
THIS JOINT TO BE USED AT ALL INTERSECTIONS
AND/OR WHERE SHOWN ON PLAN.

CONTRA
EXPANS
LONGITU

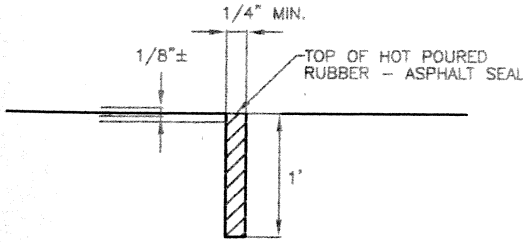


CONSTRUCTION JOINT

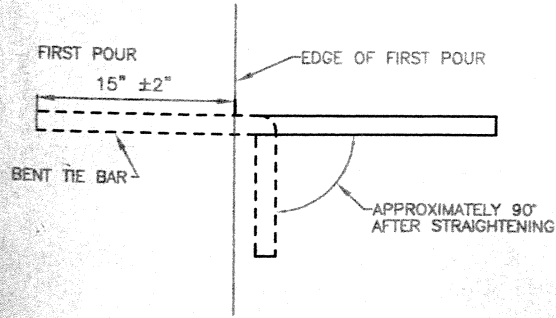
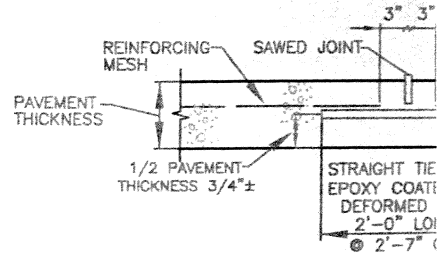
NOT TO SCALE

NOTE:
THIS JOINT TO BE USED WHEN NEW CONCRETE
ABUTS EXISTING CONCRETE

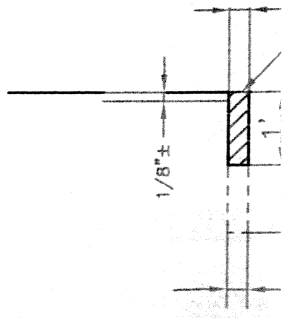
ISOLA



HOT - Poured RUBBER - ASPHALT



BULKHEAD JOINT



LANE TIE JOI

Appendix E.4

Previous Mix Designs

- B. Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for strength and support of reinforcement during concrete placement conditions. Do not use masonry block.

Honnish

2.6 CONCRETE MATERIALS

- A. Cement: INDOT Specification Section 901.01.
- B. Fine Aggregate: INDOT Specification Section 904.02 (No. 53).
- C. Coarse Aggregate: INDOT Specification Section 904.03 (No. 8).
- D. Water: Clean: INDOT Specification Section 913.01.

2.7 CONCRETE ADMIXTURES

- A. Air Entrainment: INDOT Specification Section 912.03.
- B. Chemical: INDOT Specification Section 913.03.
- C. Fly Ash: INDOT Specification Section 901.02.
- D. Provide admixtures from same source.

2.8 CONCRETE MIX

- A. Select proportions for normal weight concrete in accordance with INDOT Specification Section 702.05.
- B. Provide concrete to the following criteria in accordance with INDOT Specification Section 702.02:

<i>Unit</i>	<i>Measurement</i>
Compressive Strength (28-day)	4,500 psi
Water/Cement Ratio (maximum)	0.49 by weight (mass)
Aggregate Size (maximum)	3/4 inch
Air Entrainment	5 to 8 percent
Admixture	water reducing type
Admixture	high range water reducing type
Fly Ash Content:	Maximum 20 percent of cement content
Slump - Plus or minus 1 inch	3 1/2 inches
Cement Content (minimum)	565 pounds per cu yd

- C. Use accelerating admixtures in cold weather only when approved by ENGINEER. Use of admixtures will not relax cold weather placement requirements.
- D. Do not use calcium chloride.
- E. Use high range water reducing admixture (superplasticizer) for all concrete.

CAST-IN-PLACE CONCRETE NOTES:

1. CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO: ACI 301, 315 AND 318, LATEST EDITION.
2. CURE CONCRETE IN ACCORDANCE WITH ACI 318 AND THE RECOMMENDED GUIDELINES OF ACI 308R.
3. CEMENT SHALL BE TYPE I
4. CONCRETE SPECIFICATIONS

<u>UNIT</u>	<u>MEASUREMENT</u>
COMPRESSIVE STRENGTH (28 DAYS)	4000 psi
WATER/CEMENT RATIO (MAXIMUM)	0.45 BY WEIGHT
AGGREGATE SIZE (MAXIMUM)	3/4 INCH
ENTRAINED AIR	6 PERCENT, PLUS OR MINUS 1 PERCENT
ADMIXTURE	WATER REDUCING TYPE
FLY ASH AND POZOLAN CONTENT	MAXIMUM 20 PERCENT OF CEMENT CONTENT
SLUMP - PLUS OR MINUS (1 INCH)	4 INCH
CEMENT CONTENT (MINIMUM)	500 POUNDS PER CU YD

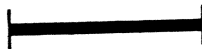
5. NO ADMIXTURE SHALL CONTAIN CALCIUM CHLORIDE BASED COMPOUNDS.
6. REINFORCING BARS SHALL BE NEW BILLET STEEL DEFORMED, IN ACCORDANCE WITH ASTM A615/A615M, YIELD STRENGTH $F_y = 60$ ksi
7. LAP SPLICES IN REINFORCING BARS SHALL BE MINIMUM 38 TIMES BAR DIAMETER, AND NOT LESS THAN 18 INCHES.
8. PROVIDE (1"x1") CHAMFERED EDGE ON ALL EXPOSED CONCRETE CORNERS.
9. PROVIDE CORNER BARS TO MATCH HORIZONTAL BARS AT ALL CORNERS.
10. CONCRETE PROTECTION FOR REINFORCING BARS TO BE 2 INCH UNLESS OTHERWISE NOTED.
11. NO CONSTRUCTION JOINT SHALL BE MADE UNLESS SHOWN ON DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
12. FINISH CONCRETE WITH STEEL TROWELLED FINISH WITHIN 1/8 INCH OF ELEVATIONS SHOWN ON DRAWINGS. FINISH TO PROVIDE DENSE, SMOOTH SURFACE, FREE OF ALL MINOR BLEMISHES, SUCH AS TROWEL MARKS. PROVIDE SURFACE IN ACCORDANCE WITH REQUIREMENTS OF COATING APPLICATOR IF APPLICABLE.

BACKFILL NOTES:

1. DO NOT BACKFILL BEHIND WALLS UNTIL CONCRETE HAS ATTAINED 28-DAY STRENGTH.
2. BACKFILL BEHIND WALLS IN MAXIMUM 6" LOOSE LIFTS. COMPACT GRANULAR BACKFILL TO MIN. 95% SPMD.
3. CONSTRUCT DITCH USING MAXIMUM D3 DOZER, (OPER. WT = 16,227 LBS) OPERATED NO CLOSER THAN 4 FEET FROM THE NEW RETAINING WALL. USE LIGHT WALK-BEHIND EQUIPMENT NEXT TO WALL.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.



Approved

*East
Plant
211
Dwg
C-92
(Flume
Wall)*

Appendix F

Analytical Report for MH-ST-43 Catch Basin Bottom

Analytical Report Cover Page A8F250109.....	1
Case Narrative.....	2
Executive Summary.....	7
Analytical Method Summary.....	9
Sample Summary.....	11
Shipping and Receiving Documents.....	13
Polychlorinated Biphenyls Data.....	17
General Chemistry Data.....	24
Total # of Pages in this Document.....	29

ANALYTICAL REPORT

PROJECT NO. SSOW E117002

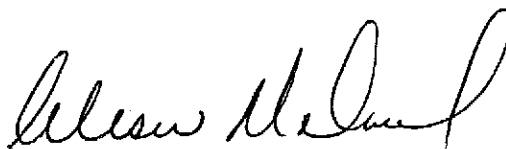
GMPT BEDFORD - (013968)

Lot #: ABF250109

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

TESTAMERICA LABORATORIES, INC.



Alesia M. Danford
Project Manager

June 30, 2008

CASE NARRATIVE

CASE NARRATIVE

A8F250109

The following report contains the analytical results for one solid sample submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford - (013968) Site, project number SSOW E117002. The sample was received June 25, 2008, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to the Chemistry Department, Chris Heij, GM Edds, Jeffrey Nichols, Katie Kamm, Mary Kelly, Paul Gallaway, Pete Bridcut, and Sarah Heikoop on June 26, 2008. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

Any reference within this document to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Alesia M. Danford, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 1.3 and 2.4°C.

POLYCHLORINATED BIPHENYLS-8082

The analytical results met the requirements of the laboratory's QA/QC program.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica North Canton Certifications and Approvals:

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225), Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), OhioVAP (#CL0024), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit,



N:\QAQC\Customer Service\Narrative - Combined RCRA _CWA 061807.doc

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A8F250109

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
S-AOI21-062408-MB-30652 06/24/08 10:45 001				
Percent Solids	89.7	10.0	%	MCAWW 160.3 MOD

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A8F250109

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
PCBs by SW-846 8082	SW846 8082
Total Residue as Percent Solids	MCAWW 160.3 MOD

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A8F250109

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
KQH17	001	S-AOI21-062408-MB-30652	06/24/08	10:45

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filler test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

***SHIPPING
AND
RECEIVING DOCUMENTS***

PAGE 1 OF 1

☐ eCOC in Use

ID: # C#06242008_124531

SSOW Ref. Code: E117002

Required Client Information:

Conestoga-Rovers & Associates Report To: _____
 Address: _____ Copy To: Paul Wiseman
 GM Drive & 4th Street Invoice To: _____
 Bedford, Indiana 47421 P.O.: _____
 Phone: (812) 277-8960 Project Name: GM - BEDFORD
 Fax: (812) 277-8980 Project Number: 013968 / 017368
 E-mail: _____

Laboratory: Test America Laboratories
 Laboratory Location: 4101 Shuffel Drive NW, North Canton, OH
 Laboratory Contact: _____
 Requested Due Date: _____
 TAT: 1 Day
 QA/QC Requirements: _____

- Valid Matrix Codes:**
- WG Ground Water
 - WB Borehole Water
 - WS Surface Water
 - SO Soil
 - SE Sediment
 - See Back for Additional Codes

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Preservative	Analysis and Method		Remarks/Lab ID
						/PCBS, TOTAL	/SOLIDS, TOTAL	
1 S-AO121-062408-MB-30652	SO	06/24/08	10:45	1		X	X	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								

TOTAL NUMBER OF CONTAINERS 1

SHIPMENT METHOD **NO. OF COOLERS** **RELINQUISHED BY / AFFILIATION** **DATE** **TIME** **RECEIVED BY / AFFILIATION** **DATE** **TIME**

FedEx 1 Mark Bernard / CRA 06/24/08 16:00 *[Signature]* 6/25/08 08:15

ARBILL NO: 8660 5974 1279

Sample Condition

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Receiving Laboratory Copy

Sampler Name: Mark Bernard

Sampler Signature: *[Signature]* Date: 06/24/08

TestAmerica Cooler Receipt Form/Narrative

Lot Number: ABF250109

North Canton Facility

Client QRA Project _____ By: [Signature]
 Cooler Received on 6/25/08 Opened on 6/25/08 (Signature)

FedEx UPS DHL FAS Stetson Client Drop Off TestAmerica Courier Other _____
 TestAmerica Cooler # _____ Multiple Coolers Foam Box Client Cooler Other _____

1. Were custody seals on the outside of the cooler(s)? Yes No Intact? Yes No NA
 If YES, Quantity 4
 Were custody seals on the outside of cooler(s) signed and dated? Yes No NA
 Were custody seals on the bottle(s)? Yes No
 2. Shippers' packing slip attached to the cooler(s)? Yes No
 3. Did custody papers accompany the sample(s)? Yes No Relinquished by client? Yes No
 4. Were the custody papers signed in the appropriate place? Yes No
 5. Packing material used: Bubble Wrap Foam None Other Foam Insort
 6. Cooler temperature upon receipt _____ °C See back of form for multiple coolers/temps
 METHOD: IR Other
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels be reconciled with the COC? Yes No
 9. Were sample(s) at the correct pH upon receipt? Yes No NA
 10. Were correct bottle(s) used for the test(s) indicated? Yes No
 11. Were air bubbles >6 mm in any VOA vials? Yes No NA
 12. Sufficient quantity received to perform indicated analyses? Yes No
 13. Was a trip blank present in the cooler(s)? Yes No Were VOAs on the COC? Yes No
- Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
 Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot# 113007-HNO₃; Sulfuric Acid Lot# 031808-H₂SO₄; Sodium Hydroxide Lot# 073007 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 050205-(CH₃COO)₂ZN/NaOH.
 What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

**TestAmerica Cooler Receipt Form/Narrative
North Canton Facility**

Client ID	pH	Date	Initials
Cooler #	Temp. °C	Method	Coolant
TA no # 680	1.3°C	IR J	Ice J
	2.4°C		
Discrepancies Cont'd:			

***POLYCHLORINATED
BIPHENYLS DATA***

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-AOI21-062408-MB-30652

GC Semivolatiles

Lot-Sample #...: A8F250109-001 Work Order #...: KQH171AC Matrix.....: SO
Date Sampled...: 06/24/08 10:45 Date Received..: 06/25/08
Prep Date.....: 06/25/08 Analysis Date..: 06/26/08
Prep Batch #...: 8177035
Dilution Factor: 1 Initial Wgt/Vol: 30.11 g Final Wgt/Vol...: 10 mL
% Moisture.....: 10 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1016	ND	37	ug/kg	23
Aroclor 1221	ND	37	ug/kg	18
Aroclor 1232	ND	37	ug/kg	16
Aroclor 1242	ND	37	ug/kg	14
Aroclor 1248	ND	37	ug/kg	19
Aroclor 1254	ND	37	ug/kg	19
Aroclor 1260	ND	37	ug/kg	19
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Tetrachloro-m-xylene	83	(10 - 196)		
Decachlorobiphenyl	72	(10 - 199)		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A8F250109
MB Lot-Sample #: A8F250000-035
Analysis Date...: 06/26/08
Dilution Factor: 1

Work Order #...: KQHW51AA
Prep Date.....: 06/25/08
Prep Batch #...: 8177035
Initial Wgt/Vol: 30 g

Matrix.....: SOLID
Final Wgt/Vol...: 10 mL

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	64	(10 - 196)
Decachlorobiphenyl	69	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A8F250109 Work Order #...: KQHW51AC Matrix.....: SOLID
 LCS Lot-Sample#: A8F250000-035
 Prep Date.....: 06/25/08 Analysis Date...: 06/26/08
 Prep Batch #...: 8177035
 Dilution Factor: 1 Final Wgt/Vol...: 10 mL
 Initial Wgt/Vol: 30 g

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Aroclor 1016	330	230	ug/kg	70	SW846 8082
Aroclor 1260	330	260	ug/kg	79	SW846 8082

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Tetrachloro-m-xylene	62	(10 - 196)
Decachlorobiphenyl	73	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A8F250109 Work Order #...: KQHW51AC Matrix.....: SOLID
 LCS Lot-Sample#: A8F250000-035
 Prep Date.....: 06/25/08 Analysis Date...: 06/26/08
 Prep Batch #...: 8177035
 Dilution Factor: 1 Final Wgt/Vol...: 10 mL
 Initial Wgt/Vol: 30 g

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
Aroclor 1016	70	(34 - 127)	SW846 8082
Aroclor 1260	79	(32 - 141)	SW846 8082

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Tetrachloro-m-xylene	62	(10 - 196)
Decachlorobiphenyl	73	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: A8F250109 Work Order #...: KQGAK1A9-MS Matrix.....: SOLID
 MS Lot-Sample #: A8F240128-002 KQGAK1CA-MSD
 Date Sampled...: 06/23/08 Date Received...: 06/24/08
 Prep Date.....: 06/25/08 Analysis Date...: 06/26/08
 Prep Batch #...: 8177035
 Dilution Factor: 1 Initial Wgt/Vol: 30.15 g Final Wgt/Vol...: 10 mL
 % Moisture.....: 16

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Aroclor 1016	ND	400	350	ug/kg	87		SW846 8082
	ND	400	370	ug/kg	94	7.8	SW846 8082
Aroclor 1260	ND	400	370	ug/kg	93		SW846 8082
	ND	400	410	ug/kg	102	9.8	SW846 8082

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Tetrachloro-m-xylene	91	(10 - 196)
	91	(10 - 196)
Decachlorobiphenyl	81	(10 - 199)
	90	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A8F250109 Work Order #...: KQGAK1A9-MS Matrix.....: SOLID
 MS Lot-Sample #: A8F240128-002 KQGAK1CA-MSD
 Date Sampled...: 06/23/08 Date Received...: 06/24/08
 Prep Date.....: 06/25/08 Analysis Date...: 06/26/08
 Prep Batch #...: 8177035
 Dilution Factor: 1 Initial Wgt/Vol: 30.15 g Final Wgt/Vol...: 10 mL
 % Moisture.....: 16

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Aroclor 1016	87	(10 - 199)			SW846 8082
	94	(10 - 199)	7.8	(0-30)	SW846 8082
Aroclor 1260	93	(10 - 199)			SW846 8082
	102	(10 - 199)	9.8	(0-30)	SW846 8082

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	91	(10 - 196)
	91	(10 - 196)
Decachlorobiphenyl	81	(10 - 199)
	90	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

GENERAL CHEMISTRY DATA

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-AOI21-062408-MB-30652

General Chemistry

Lot-Sample #...: A8F250109-001 Work Order #...: KQH17 Matrix.....: SO
Date Sampled...: 06/24/08 10:45 Date Received...: 06/25/08
% Moisture.....: 10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	89.7	10.0	%	MCAWW 160.3 MOD	06/25-06/26/08	8177530
		Dilution Factor: 1		MDL.....: 10.0		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A8F250109

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Percent Solids	ND	Work Order #: KQKR31AA 10.0	%	MB Lot-Sample #: MCAWW 160.3 MOD	A8F250000-530 06/25-06/26/08	8177530
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A8F250109

Work Order #...: KP74T-SMP
KP74T-DUP

Matrix.....: SOLID

Date Sampled...: 06/18/08 12:15 Date Received...: 06/19/08

% Moisture.....: 23

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>		<u>RPD</u>	<u>LIMIT</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	77.5	78.0	%	0.67	(0-20)	SD Lot-Sample #: A8F190169-006 MCAWW 160.3 MOD	06/25-06/26/08	8177530

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A8F250109

Work Order #...: KP807-SMP
 KP807-DUP

Matrix.....: SOLID

Date Sampled...: 06/18/08 11:05 Date Received...: 06/19/08

% Moisture.....: 2.0

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	98.0	98.0	%	0.052	(0-20)	MCAWW 160.3 MOD	06/25-06/26/08	8177530
Dilution Factor: 1								

END OF REPORT

Appendix G

West Plant Lawn Prescriptive Removal Summary – Revision 1 (Memorandum dated November 15, 2011)



MEMORANDUM

TO: Peter Ramanauskas REF. NO.: 013968/ck/717rev1

FROM: Katie Kamm, Paul Gallaway DATE: November 15, 2011

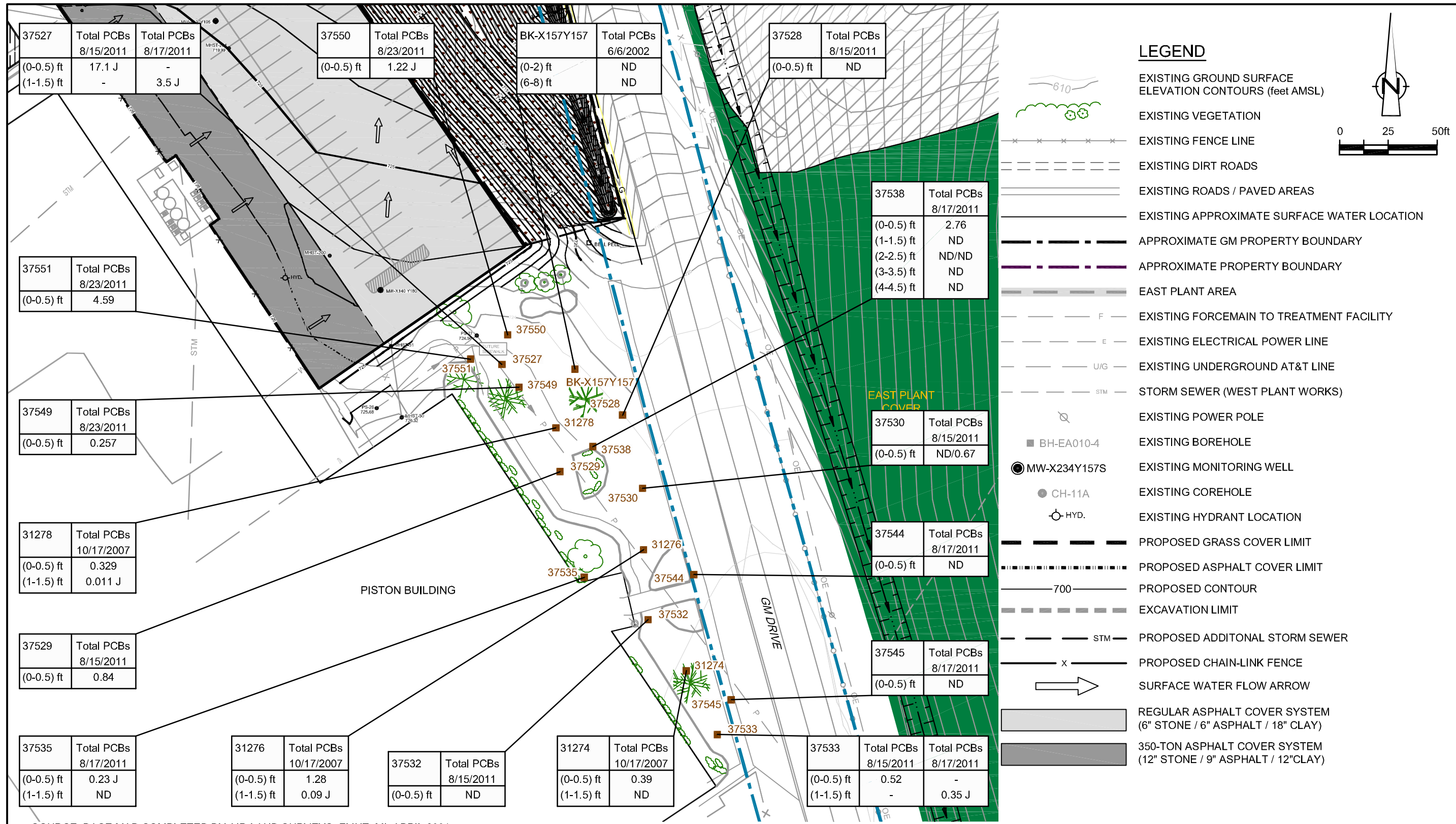
CC: Brad Stimple; Gerald O'Callaghan; Cheryl Hiatt;
Ed Peterson; Jim McGuigan; Katie Kamm; Bill Steinmann;
Francis Ramacciotti

RE: **West Plant Area Lawn Prescriptive Removal Summary - Revision 1**
General Motors CETC Bedford Facility
Bedford, Indiana

This memo is submitted to summarize the sampling and prescriptive removal completed in the West Plant Area on the lawn area to the east of the Piston Building.

In early August 2011 the Facility indicated that they would be replacing the landscaping in the aforementioned area. The work would include removing the existing sidewalks, vegetation and upper 6-inches of soil. GM's remediation team evaluated previous sampling results for this area to determine if there were PCB exposure concerns for the landscaping crews. The evaluation identified four borehole locations which had previously been advanced in the area. A total of 8 samples were collected from these locations with PCB results ranging from ND to 1.28 ppm. GM felt that additional sample collection was warranted to confirm surface soil conditions in the area. Ten additional sample locations were selected and borings advanced to 0.5 ft. bgs with samples collected and analyzed for PCBs. Based on the initial results, additional samples were collected at depth. Sample locations are presented on Figure 1 and results are presented in Table 1.

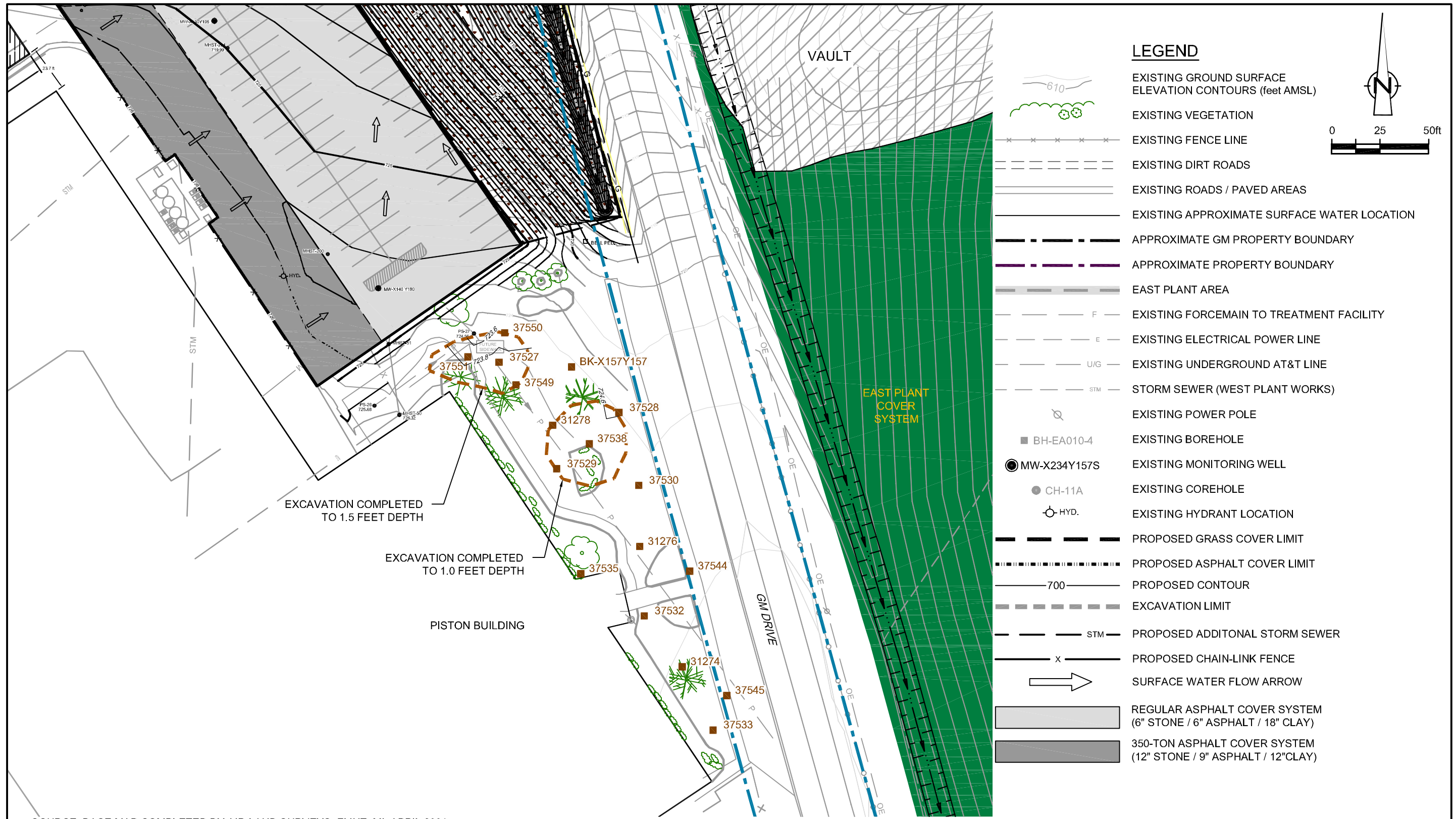
Based on the sample results, GM conducted a prescriptive removal of low level PCB soil in two areas on the front lawn that exceeded the State criteria of 1.8 mg/kg. On August 26, 2011, Severson Environmental Services completed the removal of two areas presented on Figure 2, to depths of approximately 1 ft at the southern excavation and 1.5 feet at the northern excavation. Soil removed (approximately 105 cy) was transported to the East Plant Area grading area north of the stormwater pond. Clean topsoil was used to backfill the excavations.



SOURCE: BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001
CRA SURVEYS 2004 TO 2007

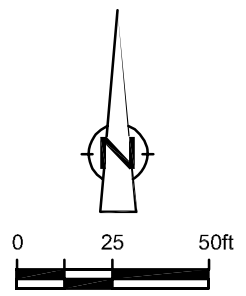
37549	Total PCBs	8/23/2011	(0-0.5) ft	0.257
SAMPLE IDENTIFIER PARAMETER DATE SAMPLE TAKEN CONCENTRATION (mg/kg) SAMPLE DEPTH IN FEET BELOW GROUND SURFACE				
J	ESTIMATED CONCENTRATION			
ND	NOT DETECTED			
ND/0.67	PARENT SAMPLE RESULT/DUPLICATE			

figure 1
TOTAL PCBs
WEST PLANT AREA LAWN PRESCRIPTIVE REMOVAL SUMMARY
GM CETC BEDFORD FACILITY
Bedford, Indiana



LEGEND

- EXISTING GROUND SURFACE ELEVATION CONTOURS (feet AMSL)
- EXISTING VEGETATION
- EXISTING FENCE LINE
- EXISTING DIRT ROADS
- EXISTING ROADS / PAVED AREAS
- EXISTING APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- EAST PLANT AREA
- EXISTING FORCEMAIN TO TREATMENT FACILITY
- EXISTING ELECTRICAL POWER LINE
- EXISTING UNDERGROUND AT&T LINE
- STORM SEWER (WEST PLANT WORKS)
- EXISTING POWER POLE
- BH-EA010-4 EXISTING BOREHOLE
- MW-X234Y157S EXISTING MONITORING WELL
- EXISTING COREHOLE
- EXISTING HYDRANT LOCATION
- PROPOSED GRASS COVER LIMIT
- PROPOSED ASPHALT COVER LIMIT
- PROPOSED CONTOUR
- EXCAVATION LIMIT
- PROPOSED ADDITIONAL STORM SEWER
- PROPOSED CHAIN-LINK FENCE
- SURFACE WATER FLOW ARROW
- REGULAR ASPHALT COVER SYSTEM (6" STONE / 6" ASPHALT / 18" CLAY)
- 350-TON ASPHALT COVER SYSTEM (12" STONE / 9" ASPHALT / 12" CLAY)



SOURCE: BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT, MI, APRIL 2001
CRA SURVEYS 2004 TO 2007

figure 2
**COMPLETED REMOVAL
WEST PLANT AREA LAWN PRESCRIPTIVE REMOVAL SUMMARY
GM CETC BEDFORD FACILITY
Bedford, Indiana**



SOIL SAMPLE RESULTS SUMMARY
WEST PLANT AREA LAWN PRESCRIPTIVE REMVOAL SUMMARY
GM CETC BEDFORD FACILITY
BEDFORD, INDIANA

Sample Location		BK-X157Y157	BK-X157Y157
Sample Identification		S-060602-MG-229	S-060602-MG-230
Sample Date		6/6/2002	6/6/2002
Sample Depth		(0-2) FT	(6-8) FT
Sample Type			
Sample Status			
	<i>Units</i>		
<i>Metals</i>			
Aluminum	mg/kg	13100	10800
Antimony	mg/kg	7.5 U	7.7 U
Arsenic	mg/kg	7.6	5.7
Barium	mg/kg	28.6	7.7 J
Beryllium	mg/kg	0.43 J	0.79
Cadmium	mg/kg	0.62 U	0.64 U
Chromium	mg/kg	43.6	27.2
Cobalt	mg/kg	2.4 J	11.8
Copper	mg/kg	11.5	19.5
Iron	mg/kg	32600	30400
Lead	mg/kg	21.1	16.0
Manganese	mg/kg	42.4	141
Mercury	mg/kg	0.12 U	0.13 U
Nickel	mg/kg	11.6	19.4
Selenium	mg/kg	0.62 U	0.64 U
Silver	mg/kg	1.2 U	1.3 U
Thallium	mg/kg	1.2 U	1.3 U
Vanadium	mg/kg	69.8	40.7
Zinc	mg/kg	55.2	81.9
<i>PCBs</i>			
Aroclor-1016 (PCB-1016)	mg/kg	0.041 U	0.043 U
Aroclor-1221 (PCB-1221)	mg/kg	0.041 U	0.043 U
Aroclor-1232 (PCB-1232)	mg/kg	0.041 U	0.043 U
Aroclor-1242 (PCB-1242)	mg/kg	0.041 U	0.043 U
Aroclor-1248 (PCB-1248)	mg/kg	0.041 U	0.043 U
Aroclor-1254 (PCB-1254)	mg/kg	0.041 U	0.043 U
Aroclor-1260 (PCB-1260)	mg/kg	0.041 UJ	0.043 UJ
Total PCBs	mg/kg	ND	ND
<i>Semi-Volatile Organic Compounds</i>			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	0.41 U	0.43 U
2,4,5-Trichlorophenol	mg/kg	0.41 U	0.43 U
2,4,6-Trichlorophenol	mg/kg	0.41 U	0.43 U
2,4-Dichlorophenol	mg/kg	0.41 U	0.43 U
2,4-Dimethylphenol	mg/kg	0.41 U	0.43 U
2,4-Dinitrophenol	mg/kg	2 U	2.1 U
2,4-Dinitrotoluene	mg/kg	0.41 U	0.43 U
2,6-Dinitrotoluene	mg/kg	0.41 U	0.43 U
2-Chloronaphthalene	mg/kg	0.41 U	0.43 U
2-Chlorophenol	mg/kg	0.41 U	0.43 U
2-Methylnaphthalene	mg/kg	0.41 U	0.43 U
2-Methylphenol	mg/kg	0.41 U	0.43 U
2-Nitroaniline	mg/kg	2 U	2.1 U
2-Nitrophenol	mg/kg	0.41 U	0.43 U
3,3'-Dichlorobenzidine	mg/kg	2 U	2.1 U
3-Nitroaniline	mg/kg	2 U	2.1 U
4,6-Dinitro-2-methylphenol	mg/kg	2 U	2.1 U
4-Bromophenyl phenyl ether	mg/kg	0.41 U	0.43 U
4-Chloro-3-methylphenol	mg/kg	0.41 U	0.43 U
4-Chloroaniline	mg/kg	0.41 U	0.43 U

SOIL SAMPLE RESULTS SUMMARY
WEST PLANT AREA LAWN PRESCRIPTIVE REMVOAL SUMMARY
GM CETC BEDFORD FACILITY
BEDFORD, INDIANA

Sample Location		BK-X157Y157	BK-X157Y157
Sample Identification		S-060602-MG-229	S-060602-MG-230
Sample Date		6/6/2002	6/6/2002
Sample Depth		(0-2) FT	(6-8) FT
Sample Type			
Sample Status			
	<i>Units</i>		
4-Chlorophenyl phenyl ether	mg/kg	0.41 U	0.43 U
4-Methylphenol	mg/kg	0.41 U	0.43 U
4-Nitroaniline	mg/kg	2 U	2.1 U
4-Nitrophenol	mg/kg	2 U	2.1 U
Acenaphthene	mg/kg	0.41 U	0.43 U
Acenaphthylene	mg/kg	0.41 U	0.43 U
Acetophenone	mg/kg	0.41 U	0.43 U
Anthracene	mg/kg	0.41 U	0.43 U
Atrazine	mg/kg	0.41 U	0.43 U
Benzaldehyde	mg/kg	0.41 U	0.43 U
Benzo(a)anthracene	mg/kg	0.41 U	0.43 U
Benzo(a)pyrene	mg/kg	0.41 U	0.43 U
Benzo(b)fluoranthene	mg/kg	0.41 U	0.43 U
Benzo(g,h,i)perylene	mg/kg	0.41 U	0.43 U
Benzo(k)fluoranthene	mg/kg	0.41 U	0.43 U
Biphenyl (1,1-Biphenyl)	mg/kg	0.41 U	0.43 U
bis(2-Chloroethoxy)methane	mg/kg	0.41 U	0.43 U
bis(2-Chloroethyl)ether	mg/kg	0.41 U	0.43 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	0.41 U	0.43 U
Butyl benzylphthalate (BBP)	mg/kg	0.41 U	0.43 U
Caprolactam	mg/kg	0.41 UJ	0.43 U
Carbazole	mg/kg	0.41 U	0.43 U
Chrysene	mg/kg	0.41 U	0.43 U
Dibenz(a,h)anthracene	mg/kg	0.41 U	0.43 U
Dibenzofuran	mg/kg	0.41 U	0.43 U
Diethyl phthalate	mg/kg	0.41 U	0.43 U
Dimethyl phthalate	mg/kg	0.41 U	0.43 U
Di-n-butylphthalate (DBP)	mg/kg	0.41 U	0.43 U
Di-n-octyl phthalate (DnOP)	mg/kg	0.41 U	0.43 U
Fluoranthene	mg/kg	0.41 U	0.43 U
Fluorene	mg/kg	0.41 U	0.43 U
Hexachlorobenzene	mg/kg	0.41 U	0.43 U
Hexachlorobutadiene	mg/kg	0.41 U	0.43 U
Hexachlorocyclopentadiene	mg/kg	2 U	2.1 U
Hexachloroethane	mg/kg	0.41 U	0.43 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.41 U	0.43 U
Isophorone	mg/kg	0.41 U	0.43 U
Naphthalene	mg/kg	0.41 U	0.43 U
Nitrobenzene	mg/kg	0.41 U	0.43 U
N-Nitrosodi-n-propylamine	mg/kg	0.41 U	0.43 U
N-Nitrosodiphenylamine	mg/kg	0.41 U	0.43 U
Pentachlorophenol	mg/kg	0.41 U	0.43 U
Phenanthrene	mg/kg	0.41 U	0.43 U
Phenol	mg/kg	0.41 U	0.43 U
Pyrene	mg/kg	0.41 U	0.43 U
<i>Volatile Organic Compounds</i>			
1,1,1-Trichloroethane	mg/kg	0.0078 U	0.0083 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0078 U	0.0083 U
1,1,2-Trichloroethane	mg/kg	0.0078 U	0.0083 U
1,1-Dichloroethane	mg/kg	0.0078 U	0.0083 U
1,1-Dichloroethene	mg/kg	0.0078 U	0.0083 U
1,2,4-Trichlorobenzene	mg/kg	0.0078 U	0.0083 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.016 U	0.017 U

SOIL SAMPLE RESULTS SUMMARY
WEST PLANT AREA LAWN PRESCRIPTIVE REMVOAL SUMMARY
GM CETC BEDFORD FACILITY
BEDFORD, INDIANA

Sample Location		BK-X157Y157	BK-X157Y157
Sample Identification		S-060602-MG-229	S-060602-MG-230
Sample Date		6/6/2002	6/6/2002
Sample Depth		(0-2) FT	(6-8) FT
Sample Type			
Sample Status			
	<i>Units</i>		
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.0078 U	0.0083 U
1,2-Dichlorobenzene	mg/kg	0.0078 U	0.0083 U
1,2-Dichloroethane	mg/kg	0.0078 U	0.0083 U
1,2-Dichloropropane	mg/kg	0.0078 U	0.0083 U
1,3-Dichlorobenzene	mg/kg	0.0078 U	0.0083 U
1,4-Dichlorobenzene	mg/kg	0.0078 U	0.0083 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.031 U	0.033 U
2-Hexanone	mg/kg	0.031 U	0.033 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	0.031 U	0.033 U
Acetone	mg/kg	0.031 UJ	0.033 UJ
Benzene	mg/kg	0.0078 U	0.0083 U
Bromodichloromethane	mg/kg	0.0078 U	0.0083 U
Bromoform	mg/kg	0.0078 U	0.0083 U
Bromomethane (Methyl bromide)	mg/kg	0.0078 U	0.0083 U
Carbon disulfide	mg/kg	0.0078 U	0.0083 U
Carbon tetrachloride	mg/kg	0.0078 U	0.0083 U
Chlorobenzene	mg/kg	0.0078 U	0.0083 U
Chloroethane	mg/kg	0.0078 U	0.0083 U
Chloroform (Trichloromethane)	mg/kg	0.0078 U	0.0083 U
Chloromethane (Methyl chloride)	mg/kg	0.0078 U	0.0083 U
cis-1,2-Dichloroethene	mg/kg	0.0039 U	0.0041 U
cis-1,3-Dichloropropene	mg/kg	0.0078 U	0.0083 U
Cyclohexane	mg/kg	0.016 U	0.017 U
Dibromochloromethane	mg/kg	0.0078 U	0.0083 U
Dichlorodifluoromethane (CFC-12)	mg/kg	0.0078 U	0.0083 U
Ethylbenzene	mg/kg	0.0078 U	0.0083 U
Isopropyl benzene	mg/kg	0.0078 U	0.0083 U
Methyl acetate	mg/kg	0.016 U	0.017 U
Methyl cyclohexane	mg/kg	0.016 U	0.017 U
Methyl tert butyl ether (MTBE)	mg/kg	0.031 U	0.033 U
Methylene chloride	mg/kg	0.0078 U	0.0083 U
Styrene	mg/kg	0.0078 U	0.0083 U
Tetrachloroethene	mg/kg	0.0078 U	0.0083 U
Toluene	mg/kg	0.0078 U	0.0083 U
trans-1,2-Dichloroethene	mg/kg	0.0039 U	0.0041 U
trans-1,3-Dichloropropene	mg/kg	0.0078 U	0.0083 U
Trichloroethene	mg/kg	0.0078 U	0.0083 U
Trichlorofluoromethane (CFC-11)	mg/kg	0.0078 U	0.0083 U
Trifluorotrchloroethane (Freon 113)	mg/kg	0.0078 U	0.0083 U
Vinyl chloride	mg/kg	0.0078 U	0.0083 U
Xylenes (total)	mg/kg	0.0078 U	0.0083 U
<i>General Chemistry</i>			
Cyanide (amenable)	mg/kg	0.62 U	0.64 U
Cyanide (total)	mg/kg	0.62 U	0.64 U
Total organic carbon (TOC)	mg/kg	1400	330
Total solids	%	80.4	77.5

Notes:

U - Not present at or above the associated value.

J - Estimated concentration.

UJ - Estimated reporting limit.

SOIL SAMPLE RESULTS SUMMARY
WEST PLANT AREA LAWN PRESCRIPTIVE REMOVAL SUMMARY
GM CETC BEDFORD FACILITY
BEDFORD, INDIANA

Sample Location		31274	31274	31276	31276
Sample Identification		S-101707-CH-31274	S-101707-CH-31275	S-101707-CH-31276	S-101707-CH-31277
Sample Date		10/17/2007	10/17/2007	10/17/2007	10/17/2007
Sample Depth		(0-0.5) FT	(1-1.5) FT	(0-0.5) FT	(1-1.5) FT
Sample Type					
Sample Status					
	<i>Units</i>				
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.04 U	0.038 U	0.038 U	0.041 U
Aroclor-1221 (PCB-1221)	mg/kg	0.04 U	0.038 U	0.038 U	0.041 U
Aroclor-1232 (PCB-1232)	mg/kg	0.04 U	0.038 U	0.038 U	0.041 U
Aroclor-1242 (PCB-1242)	mg/kg	0.04 U	0.038 U	0.038 U	0.041 U
Aroclor-1248 (PCB-1248)	mg/kg	0.27	0.038 U	1.1	0.062
Aroclor-1254 (PCB-1254)	mg/kg	0.04 U	0.038 U	0.038 U	0.041 U
Aroclor-1260 (PCB-1260)	mg/kg	0.12	0.038 U	0.18	0.028 J
Total PCBs	mg/kg	0.39	ND	1.28	0.09 J
General Chemistry					
Total solids	%	82.5	86.8	87.4	80.2

Notes:

U - Not present at or above the associated value.

J - Estimated concentration.

UJ - Estimated reporting limit.

**SOIL SAMPLE RESULTS SUMMARY
WEST PLANT AREA LAWN PRESCRIPTIVE REMVOAL SUMMARY
GM CETC BEDFORD FACILITY
BEDFORD, INDIANA**

Sample Location		31278	31278	37527	37527
Sample Identification		S-101707-CH-31278	S-101707-CH-31279	S-081511-SM-37527	S-081711-SM-37537
Sample Date		10/17/2007	10/17/2007	8/15/2011	8/17/2011
Sample Depth		(0-0.5) FT	(1-1.5) FT	(0-0.5)	(1-1.5)
Sample Type					
Sample Status				Excavated	Excavated
	<i>Units</i>				
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.037 U	0.04 U	2.1 U	0.39 U
Aroclor-1221 (PCB-1221)	mg/kg	0.037 U	0.04 U	2.1 U	0.39 U
Aroclor-1232 (PCB-1232)	mg/kg	0.037 U	0.04 U	2.1 U	0.39 U
Aroclor-1242 (PCB-1242)	mg/kg	0.037 U	0.04 U	2.1 U	0.39 U
Aroclor-1248 (PCB-1248)	mg/kg	0.27	0.011 J	16	3.2
Aroclor-1254 (PCB-1254)	mg/kg	0.037 U	0.04 U	2.1 U	0.39 U
Aroclor-1260 (PCB-1260)	mg/kg	0.059	0.04 U	1.1 J	0.3 J
Total PCBs	mg/kg	0.329	0.011 J	17.1 J	3.5 J
General Chemistry					
Total solids	%	89.7	83.3	--	--

Notes:
 U - Not present at or above the associated value.
 J - Estimated concentration.
 UJ - Estimated reporting limit.

**SOIL SAMPLE RESULTS SUMMARY
WEST PLANT AREA LAWN PRESCRIPTIVE REMVOAL SUMMARY
GM CETC BEDFORD FACILITY
BEDFORD, INDIANA**

Sample Location	37528	37529	37530	37530
Sample Identification	S-081511-SM-37528	S-081511-SM-37529	S-081511-SM-37530	S-081511-SM-37531
Sample Date	8/15/2011	8/15/2011	8/15/2011	8/15/2011
Sample Depth	(0-0.5)	(0-0.5)	(0-0.5)	(0-0.5)
Sample Type				Duplicate
Sample Status				

Units

PCBs

	mg/kg	0.44 U	0.2 U	0.083 U	0.083 U
Aroclor-1016 (PCB-1016)	mg/kg	0.44 U	0.2 U	0.083 U	0.083 U
Aroclor-1221 (PCB-1221)	mg/kg	0.44 U	0.2 U	0.083 U	0.083 U
Aroclor-1232 (PCB-1232)	mg/kg	0.44 U	0.2 U	0.083 U	0.083 U
Aroclor-1242 (PCB-1242)	mg/kg	0.44 U	0.2 U	0.083 U	0.083 U
Aroclor-1248 (PCB-1248)	mg/kg	0.44 U	0.84	0.083 U	0.083 U
Aroclor-1254 (PCB-1254)	mg/kg	0.44 U	0.2 U	0.083 U	0.67
Aroclor-1260 (PCB-1260)	mg/kg	0.44 U	0.2 U	0.083 U	0.083 U
Total PCBs	mg/kg	ND	0.84	ND	0.67

General Chemistry

Total solids	%	--	--	--	--
--------------	---	----	----	----	----

Notes:

- U - Not present at or above the associated value.
- J - Estimated concentration.
- UJ - Estimated reporting limit.

**SOIL SAMPLE RESULTS SUMMARY
WEST PLANT AREA LAWN PRESCRIPTIVE REMVOAL SUMMARY
GM CETC BEDFORD FACILITY
BEDFORD, INDIANA**

Sample Location		37533	37533	37535	37535
Sample Identification		S-081511-SM-37533	S-081711-SM-37534	S-081711-SM-37535	S-081711-SM-37536
Sample Date		8/15/2011	8/17/2011	8/17/2011	8/17/2011
Sample Depth		(0-0.5)	(1-1.5)	(0-0.5)	(1-1.5)
Sample Type					
Sample Status					
	<i>Units</i>				
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.085 U	0.21 U	0.21 U	0.042 U
Aroclor-1221 (PCB-1221)	mg/kg	0.085 U	0.21 U	0.21 U	0.042 U
Aroclor-1232 (PCB-1232)	mg/kg	0.085 U	0.21 U	0.21 U	0.042 U
Aroclor-1242 (PCB-1242)	mg/kg	0.085 U	0.21 U	0.21 U	0.042 U
Aroclor-1248 (PCB-1248)	mg/kg	0.085 U	0.21 U	0.21 U	0.042 U
Aroclor-1254 (PCB-1254)	mg/kg	0.52	0.16 J	0.23 J	0.042 U
Aroclor-1260 (PCB-1260)	mg/kg	0.085 U	0.19 J	0.21 U	0.042 U
Total PCBs	mg/kg	0.52	0.35 J	0.23 J	ND
General Chemistry					
Total solids	%	--	--	--	--

Notes:
 U - Not present at or above the associated value.
 J - Estimated concentration.
 UJ - Estimated reporting limit.

**SOIL SAMPLE RESULTS SUMMARY
WEST PLANT AREA LAWN PRESCRIPTIVE REMVOAL SUMMARY
GM CETC BEDFORD FACILITY
BEDFORD, INDIANA**

Sample Location		37538	37538	37538	37538
Sample Identification		S-081711-SM-37538	S-081711-SM-37539	S-081711-SM-37540	S-081711-SM-37541
Sample Date		8/17/2011	8/17/2011	8/17/2011	8/17/2011
Sample Depth		(0-0.5)	(1-1.5)	(2-2.5)	(2-2.5)
Sample Type					Duplicate
Sample Status		Excavated			
	Units				
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.4 U	0.042 U	0.041 U	0.042 U
Aroclor-1221 (PCB-1221)	mg/kg	0.4 U	0.042 U	0.041 U	0.042 U
Aroclor-1232 (PCB-1232)	mg/kg	0.4 U	0.042 U	0.041 U	0.042 U
Aroclor-1242 (PCB-1242)	mg/kg	0.4 U	0.042 U	0.041 U	0.042 U
Aroclor-1248 (PCB-1248)	mg/kg	2.3	0.042 U	0.041 U	0.042 U
Aroclor-1254 (PCB-1254)	mg/kg	0.4 U	0.042 U	0.041 U	0.042 U
Aroclor-1260 (PCB-1260)	mg/kg	0.46	0.042 U	0.041 U	0.042 U
Total PCBs	mg/kg	2.76	ND	ND	ND
General Chemistry					
Total solids	%	--	--	--	--

Notes:
 U - Not present at or above the associated value.
 J - Estimated concentration.
 UJ - Estimated reporting limit.

**SOIL SAMPLE RESULTS SUMMARY
WEST PLANT AREA LAWN PRESCRIPTIVE REMVOAL SUMMARY
GM CETC BEDFORD FACILITY
BEDFORD, INDIANA**

Sample Location		37538	37538	37544	37545
Sample Identification		S-081711-SM-37542	S-081711-SM-37543	S-081711-SM-37544	S-081711-SM-37545
Sample Date		8/17/2011	8/17/2011	8/17/2011	8/17/2011
Sample Depth		(3-3.5)	(4-4.5)	(0-0.5)	(0-0.5)
Sample Type					
Sample Status					
	<i>Units</i>				
<i>PCBs</i>					
Aroclor-1016 (PCB-1016)	mg/kg	0.042 U	0.042 U	0.043 U	0.034 U
Aroclor-1221 (PCB-1221)	mg/kg	0.042 U	0.042 U	0.043 U	0.034 U
Aroclor-1232 (PCB-1232)	mg/kg	0.042 U	0.042 U	0.043 U	0.034 U
Aroclor-1242 (PCB-1242)	mg/kg	0.042 U	0.042 U	0.043 U	0.034 U
Aroclor-1248 (PCB-1248)	mg/kg	0.042 U	0.042 U	0.043 U	0.034 U
Aroclor-1254 (PCB-1254)	mg/kg	0.042 U	0.042 U	0.043 U	0.034 U
Aroclor-1260 (PCB-1260)	mg/kg	0.042 U	0.042 U	0.043 U	0.034 U
Total PCBs	mg/kg	ND	ND	ND	ND
<i>General Chemistry</i>					
Total solids	%	--	--	--	--

Notes:
 U - Not present at or above the associated value.
 J - Estimated concentration.
 UJ - Estimated reporting limit.

**SOIL SAMPLE RESULTS SUMMARY
WEST PLANT AREA LAWN PRESCRIPTIVE REMVOAL SUMMARY
GM CETC BEDFORD FACILITY
BEDFORD, INDIANA**

Sample Location	37549	37550	37551	
Sample Identification	S-082311-KK-37549	S-082311-KK-37550	S-082311-KK-37551	
Sample Date	8/23/2011	8/23/2011	8/23/2011	
Sample Depth	(0-0.5)	(0-0.5)	(0-0.5)	
Sample Type				
Sample Status			Excavated	
	<i>Units</i>			
<i>PCBs</i>				
Aroclor-1016 (PCB-1016)	mg/kg	0.039 U	0.081 U	0.38 U
Aroclor-1221 (PCB-1221)	mg/kg	0.039 U	0.081 U	0.38 U
Aroclor-1232 (PCB-1232)	mg/kg	0.039 U	0.081 U	0.38 U
Aroclor-1242 (PCB-1242)	mg/kg	0.077	0.28	0.38 U
Aroclor-1248 (PCB-1248)	mg/kg	0.039 U	0.081 U	3.7
Aroclor-1254 (PCB-1254)	mg/kg	0.18	0.94 J	0.38 U
Aroclor-1260 (PCB-1260)	mg/kg	0.039 U	0.081 U	0.89
Total PCBs	mg/kg	0.257	1.22 J	4.59
<i>General Chemistry</i>				
Total solids	%	--	--	--

Notes:

- U - Not present at or above the associated value.
- J - Estimated concentration.
- UJ - Estimated reporting limit.

Appendix H

AOI 21-2 Disposal Manifests (CD)

GM POWERTRAIN, Bedford Plant, 105 GM Drive, Bedford, Indiana 47421

SCALE TICKET: 99456

78200 16 11 03 08 11 03 08 8:59 AM	GROSS
32300.	TARE
	DUNNAGE
45900.	NET

VENDOR:	
MATERIAL: Concrete / Stumps	
SHIPPER NO.: 1689002.	SIGNED IN:
LOT NO.: SES.	
CARRIER: US Bulk.	SIGNED OUT:
TRAILER: 1024-3	
IN TRACTOR NUMBER: 1024-3A	OUT TRACTOR NUMBER:
REMARKS:	

L



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000109795WAS		
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195			
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RD POLYCHLORINATED BIPHENYLS, SOLID, 9 UN3432, PGII, (PCB REMEDIATION WASTE 761.61(C))			00864			
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. M14_Q346628_T#1689002 10/27/08 SFS [1074306]							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month Day Year 11 3 08	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Chad Cuthbertson				Signature 		Month Day Year 11 3 08	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____							
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000109795WAS
---	---	--------------------------	---	--

5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
--	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
--	---

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	---

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RD POLYCHLORINATED BIPHENYLS, SOLID, 9, UN3432, PGII, (PCB REMEDIATION WASTE 761.61(C))			20864				
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information 1. ERG# 171 1. W14_Q346628_T#1689002	mt 21409k (471601b)	10/27/08 SES	[1074306]
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15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offor's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM	Signature 	Month Day Year 11 3 08
--	---------------	--------------------------------------

16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
--	---

17. Transporter Acknowledgment of Receipt of Materials	Signature	Month Day Year
Transporter 1 Printed/Typed Name Chet Cuthbertson		11 3 08
Transporter 2 Printed/Typed Name	Signature	Month Day Year

18. Discrepancy	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection	Manifest Reference Number:
-----------------	--	----------------------------

18b. Alternate Facility (or Generator) NOV 13 2008	U.S. EPA ID Number
--	--------------------

18c. Signature of Alternate Facility (or Generator) CRA Inc.	Month Day Year
--	----------------

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)	1. H132	2.	3.	4.
---	----------------	----	----	----

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a	Printed/Typed Name 	Signature 	Month Day Year 11 03 08
--	------------------------	---------------	---------------------------------------

GENERATOR
TRANSPORTER
DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division

105 GM Drive

Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 03-Nov-08

Manifest: 000109795WAS **Net Kg:** 21,409

RECEIVED

NOV 13 2008

CRA Inc.

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENTACT

1689002.

DATE: <u>11/3/08</u>		LOAD #: <u>000109795 WAS 11/3/08</u>	
TIME IN: <u>7:59 am</u>	TIME OUT: <u>8:59 am</u>	MANIFEST #: <u>000109795 WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-14</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Concrete / Stumps / Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	WORK AREA: <u>Parcel / Area: A0I21-2</u>	
TRASH / DEBRIS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
OTHER: Stumps / Concrete	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TEMPERATURE (°F): <u>46</u>	WIND (mph) <input checked="" type="checkbox"/> 0-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> 10-15 <input type="checkbox"/> >15	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN	

LOADING INFORMATION:

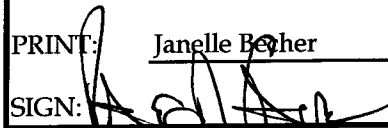
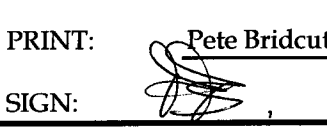
EQUIPMENT: <u>Sevenson - excavator</u>	NOTES:
MATERIAL: <u>Soil</u>	
LOCATION: <u>Staging Pad/Stockpile: A0I21-2</u>	
PERSONNEL: <u>Sevenson excavator operator/laborers</u>	
LOAD WEIGHT (LBS):	GROSS: <u>78200</u> TARE: <u>32300</u> NET: <u>45900</u>

TRANSPORTER INFORMATION:

TRUCKING COMPANY: <u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>
TRUCK #: <u>1024-3</u>	_____
TRAILER #: <u>1024-3A</u>	_____

FINAL INSPECTION:

DRIVER HAS PROPER PAPERWORK: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER: _____

ENTACT REPRESENTATIVE:	CRA REPRESENTATIVE:
PRINT: <u>Janelle Boyer</u>	PRINT: <u>Pete Bridcut</u>
SIGN: 	SIGN: 

SCALE TICKET: 99353

<p>11/13/08 11 74860 1b 11:00 AM 11 03 08 10:00.</p>	GROSS
<p>30860.</p>	TARE
<p>DUNNAGE</p>	
<p>44000.</p>	NET

VENDOR: 11/13/08 11	
MATERIAL: Cont Concrete/Blumps	
SHIPPER NO.: 168 9003	SIGNED IN:
LOT NO.: SES.	
CARRIER: US BULK	SIGNED OUT:
TRAILER: 1022A	
IN TRACTOR NUMBER: 1022	OUT TRACTOR NUMBER:
REMARKS:	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000109796WAS				
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195					
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)433-2704					U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
		No.	Type						
X	1. RD POLYCHLORINATED BIPHENYLS, SOLID, 9 UN3432, PG11, (PCB REMEDIATION WASTE 761.61(C))	1	DT	20000					
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information 1.ERG# 171 1.W14_Q346628_T#1689003 10/27/08 SFS [1074307]									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 		Month 11	Day 3	Year 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Kevin Powers					Signature Kevin Powers		Month 11	Day 3	Year 08
Transporter 2 Printed/Typed Name					Signature		Month	Day	Year
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____									
18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name					Signature		Month	Day	Year

GENERATOR

TRANSPORTER INT'L

TRANSPORTER

DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000109796WAS				
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195					
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 (765)435-2704					U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
				No.	Type				
X	1. RQ POLYCHLORINATED BIPHENYLS, SOLID, 9, UN3432, PGII, (PCB REMEDIATION WASTE 761.61(C))			1	DT	20000			
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information T.ERG# 171 1.W14_Q346628_T#1689003 W 19955kg (43900lb) 10/27/08 SES [10743071]									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 		Month 11	Day 3	Year 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Kevin Powers					Signature Kevin Bowers		Month 11	Day 3	Year 08
Transporter 2 Printed/Typed Name					Signature		Month	Day	Year
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
RECEIVED									
Manifest Reference Number: _____ U.S. EPA ID Number									
18b. Alternate Facility (or Generator) NOV 13 2008)									
Facility's Phone: _____									
18c. Signature of Alternate Facility (or Generator) CRA Inc. Month Day Year									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1.	2.	3.	4.						
H132									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name D. Bowers					Signature 		Month 11	Day 03	Year 08

GENERATOR
TRANSPORTER INTL
DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division

105 GM Drive

Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 03-Nov-08

Manifest: 109796WAS **Net Kg:**

~~00040976WAS~~ 11/13/08

19,955

RECEIVED

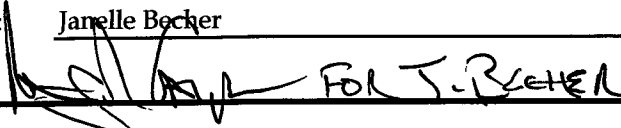
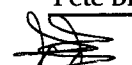
NOV 13 2008

CRA Inc.

KENNETH S. PRICE, CHAIRMAN

**Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana**

Distribution:
CRA
ENTACT

DATE: <u>11/3/08</u>		LOAD #: <u>1689003</u>	
TIME IN: <u>9:00am</u>	TIME OUT: <u>10:00am.</u>	MANIFEST #: <u>000109796 WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-14</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Concrete / Stumps / Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	WORK AREA: <u>Parcel / Area: A0I21-Z.</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER: Stumps / Concrete	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>		
TEMPERATURE (°F): <u>46</u>	WIND (mph) <input checked="" type="checkbox"/> 0-5 5-10 10-15 >15	<input checked="" type="checkbox"/> CLEAR CLOUDY RAIN	
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0I21-Z</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>74860</u>	TARE: <u>30860</u>	NET: <u>44000</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1022</u>		
TRAILER #:	<u>1022A</u>		
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
LINER INSTALLED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	OTHER:	
ENTACT REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Becker</u>	PRINT: <u>Pete Bridcut</u>		
SIGN:  FOR J. BECKER		SIGN: 	

GM POWERTRAIN, Bedford Plant, 105 GM Drive, Bedford, Indiana 47421

SCALE TICKET: 99594

75060 1b 3:54 AM 10 28 08	GROSS
32440.	TARE
	DUNNAGE
45620.	NET

VENDOR:	
MATERIAL: Soil	
SHIPPER NO.: 1748987	SIGNED IN:
LOT NO.: SES.	
CARRIER: US Bulk.	SIGNED OUT:
TRAILER: 1007A	
IN TRACTOR NUMBER: 1009	OUT TRACTOR NUMBER:
REMARKS:	



UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121157WAS
---	---	--------------------------	---	--

5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
---	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
--	---

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 (765)435-2704	U.S. EPA ID Number IND980503890
--	---

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RD, UN3432 POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	20736	K			
	2.							
	3.							
	4.							

1748989-1749017

AOI 21

14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF RE . 1. W12_Q346627_T#1748989	10/21/08 SFS. [1115060]
--	--

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are properly marked and labeled/placarded, and are in all respects in proper condition for transport. As the Primary Exporter, I certify that the contents of this consignment conform to the test methods prescribed in 40 CFR 262.21. I certify that the waste minimization statement identified in 40 CFR 262.21 is accurate.	or shipping name, and are classified, packaged, and labeled in accordance with the requirements of 49 CFR 173.15. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the test methods prescribed in 40 CFR 262.21. I certify that the waste minimization statement identified in 40 CFR 262.21 is accurate.
Generator's/Offero's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR C	Month Day Year 10 28 08

GENERATOR

TRANSPORTER INT'L

16. International Shipments <input type="checkbox"/> Import to U.S.	
17. Transporter Acknowledgment of Receipt of Materials	
Transporter 1 Printed/Typed Name KOY TACKELL	Month Day Year 10 29 08
Transporter 2 Printed/Typed Name	Month Day Year

DESIGNATED FACILITY

18. Discrepancy			
18a. Discrepancy Indication Space	<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue
	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection	
Manifest Reference Number:			
18b. Alternate Facility (or Generator)		U.S. EPA ID Number	
Facility's Phone:			
18c. Signature of Alternate Facility (or Generator)		Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H132	2.	3.	4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a			
Printed/Typed Name		Signature	Month Day Year



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121157WAS	
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404			Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195			
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC				U.S. EPA ID Number PAD987347515		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704				U.S. EPA ID Number IND980503890		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	20736	K	
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/21/08 . 1. W12_Q346627_T#1748989 wt 20573kg (45260lb) SFS, [1115060]						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month Day Year 10 28 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Roy Terrell				Signature 		Month Day Year 10 28 08
Transporter 2 Printed/Typed Name				Signature		Month Day Year
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
RECEIVED						
18b. Alternate Facility (or Generator) NOV 13 2008				Manifest Reference Number: _____ U.S. EPA ID Number		
Facility's Phone:				U.S. EPA ID Number		
18c. Signature of Alternate Facility (or Generator) CRA Inc.				Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name 				Signature 		Month Day Year 10 28 08

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR:

General Motors
105 GM Drive
Bedford IN 47421

EPA ID NUMBER:

IND006036099

Wastestream:

PCB Contaminated Soil

Disposal Method:

Landfilled

Disposal Date:

28-Oct-08

Manifest:

000121157WAS

Net Kg:

~~20,736~~
20573

11/14/08 *[Signature]*

RECEIVED

NOV 13 2008

CRA Inc.

[Signature]

KENNETH S. PRICE, CHAIRMAN

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENTACT

DATE: <u>10/28/08</u>		LOAD #: <u>1748989</u>	
TIME IN: <u>8:15 am.</u>	TIME OUT: <u>8:54 am.</u>	MANIFEST #: <u>000121157 WAS.</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: Soil >50 ppm PCBs	
SOIL > 50 ppm PCBs	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
TEMPERATURE (°F): <u>29</u>		WIND (mph) <input checked="" type="checkbox"/> 0-3 <input type="checkbox"/> 5-10 <input type="checkbox"/> 10-15 <input type="checkbox"/> >15	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0I21-2</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>78060</u>	TARE: <u>32440</u>	NET: <u>45620.</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1009</u>	_____	
TRAILER #:	<u>1009A</u>	_____	
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	LOAD COVERED / SECURED:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
LINER INSTALLED:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	TRUCK & TRAILER CLEAN:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
PROPER PLACARDS USED:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	OTHER: _____	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>		
SIGN: <u>[Signature] for J. Becher</u>		SIGN: <u>[Signature]</u>	

SCALE TICKET: 99424

77620 16 12:03 PM 10 28 08	GROSS
30860.	TARE
	DUNNAGE
46760.	NET

VENDOR:	
MATERIAL: Soil.	
SHIPPER NO.: 1748990	SIGNED IN:
LOT NO.: SES	
CARRIER: US Bulk.	SIGNED OUT:
TRAILER: 1022A	
IN TRACTOR NUMBER: 1022.	OUT TRACTOR NUMBER:
REMARKS:	

L



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121158WAS		
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195			
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, UN3432 POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	21255	K		
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/21/08 SFS. . 1. W12_Q346627_T#1748990 [11150621]							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature <i>[Signature]</i>		Month Day Year 10 28 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Kevin Powers					Signature <i>[Signature]</i>		Month Day Year 10 28 08
Transporter 2 Printed/Typed Name					Signature		Month Day Year
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name					Signature		Month Day Year

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121158WAS		
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404			Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195				
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE (C1))	1	DT	21255	K		
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/21/08 SES. 1. W12_Q346627_T#1748990 M. 21155kg (46540lb) [1115062]							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offorer's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 		Month Day Year 10 28 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Kevin Powers Signature Kevin Powers Month Day Year 10 28 08 Transporter 2 Printed/Typed Name Signature							
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) RECEIVED NOV 13 2008 U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) CRA Inc. Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature Month Day Year 10 28 08							

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR:

General Motors
105 GM Drive
Bedford IN 47421

EPA ID NUMBER:

IND006036099

Wastestream:

PCB Contaminated Soil

Disposal Method:

Landfilled

Disposal Date:

28-Oct-08

Manifest:

000121158WAS

Net Kg:

~~21,255~~

21155

11/14/08

RECEIVED

NOV 13 2008

CRA Inc.

KENNETH S. PRICE, CHAIRMAN

**Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana**

Distribution:
CRA
ENTACT

DATE: <u>10/28/08</u>		LOAD #: <u>1748990</u>	
TIME IN: <u>11:18 am</u>	TIME OUT: <u>12:03 pm</u>	MANIFEST #: <u>000121158 WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WORK AREA: Parcel / Area: <u>AOI21-2</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TEMPERATURE (°F): <u>41</u>	WIND (mph) 0-5 <input checked="" type="checkbox"/> 5-10 <input type="checkbox"/> 10-15 <input type="checkbox"/> >15 <input type="checkbox"/>	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	

LOADING INFORMATION:

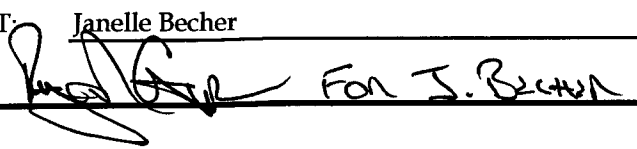
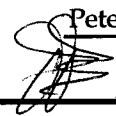
EQUIPMENT: <u>Sevenson - excavator</u>	NOTES:
MATERIAL: <u>Soil</u>	
LOCATION: <u>Staging Pad/Stockpile: AOI21-2</u>	
PERSONNEL: <u>Sevenson excavator operator/laborers</u>	
LOAD WEIGHT (LBS): GROSS: <u>77620</u> TARE: <u>30860</u> NET: <u>46760</u>	

TRANSPORTER INFORMATION:

TRUCKING COMPANY: <u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>
TRUCK #: <u>1022</u>	_____
TRAILER #: <u>1022A</u>	_____

FINAL INSPECTION:

DRIVER HAS PROPER PAPERWORK: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER: _____

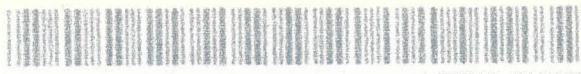
SEVENSON REPRESENTATIVE:	CRA REPRESENTATIVE:
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>
SIGN:  For J. Becher	SIGN: 

SCALE TICKET: 99434

78360 16 2:20 PM 10 28 08	GROSS
32440.	TARE
	DUNNAGE
45920.	NET

VENDOR:	
MATERIAL: Soil.	
SHIPPER NO.: 1748991.	SIGNED IN:
LOT NO.: SES	
CARRIER: 60-K6/US Bulk	SIGNED OUT:
TRAILER: 1009A	
IN TRACTOR NUMBER: 1009	OUT TRACTOR NUMBER:
REMARKS:	

L



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121159WAS					
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195						
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515					
7. Transporter 2 Company Name					U.S. EPA ID Number					
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
				No.	Type					
	X	1. RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))			1	DT	20873	K		
		2.								
		3.								
	4.									
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/21/08 SFS . 1. M12_Q346627_T#1748991 [1115063]										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offieror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM								Signature		Month Day Year 10 28 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____										
17. Transporter Acknowledgment of Receipt of Materials										
Transporter 1 Printed/Typed Name ROY TERRELL								Signature		Month Day Year 10 28 08
Transporter 2 Printed/Typed Name								Signature		Month Day Year
18. Discrepancy										
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection										
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____										
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H132			2.			3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a										
Printed/Typed Name								Signature		Month Day Year

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121159WAS	
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404			Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195			
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC				U.S. EPA ID Number PAD987347515		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704				U.S. EPA ID Number IND980503890		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	20873	K	
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/21/08 SES 1. W12_Q346627_T#1748991 MI 20864kg (45900lb) (1115063)						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month Day Year 10 28 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name KOY TERRELL				Signature 		Month Day Year 10 28 08
Transporter 2 Printed/Typed Name				Signature		Month Day Year
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) NOV 1 3 2008 Manifest Reference Number: _____ U.S. EPA ID Number						
Facility's Phone:				U.S. EPA ID Number		
18c. Signature of Alternate Facility (or Generator) CRA Inc.				Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
	H132					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name DAVID BARBA				Signature 		Month Day Year 10 28 08

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR:

General Motors
105 GM Drive
Bedford IN 47421

EPA ID NUMBER:

IND006036099

Wastestream:

PCB Contaminaged Soil

Disposal Method:

Landfilled

RECEIVED

Disposal Date:

28-Oct-08

NOV 13 2008

Manifest:

000121159WAS

Net Kg:

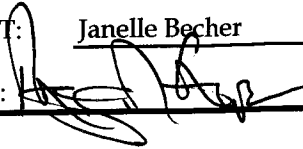
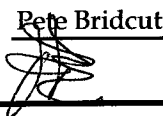
~~20,873~~
20864

11/14/08

KENNETH S. PRICE, CHAIRMAN

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENTACT

DATE: <u>10/28/08</u>		LOAD #: <u>1748991</u>	
TIME IN: <u>2:00pm</u>	TIME OUT: <u>2:20pm</u>	MANIFEST #: <u>000121159WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WORK AREA: Parcel / Area: <u>AOI 21-2</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>		
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>		
TEMPERATURE (°F): <u>46</u>	WIND (mph) 0-5 5-10 <input checked="" type="checkbox"/> 10-15 >15	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: AOI 21-2</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>78360</u>	TARE: <u>32440</u>	NET: <u>45920</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1009</u>	_____	
TRAILER #:	<u>1009A</u>	_____	
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
LINER INSTALLED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	OTHER: _____	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>		
SIGN:  FOR J. BECHER	SIGN: 		

SCALE TICKET: 99302

GROSS
TARE
DUNNAGE
NET

31180.

47800.

VENDOR:	
MATERIAL: Soil.	
SHIPPER NO.: 1748992.	SIGNED IN:
LOT NO.: SF3.	
CARRIER: US Bulk.	SIGNED OUT:
TRAILER: 1024-2A	
IN TRACTOR NUMBER: 1024-2.	OUT TRACTOR NUMBER:
REMARKS:	

L



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121160WAS		
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195			
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RD, UN3432 POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	2127	K		
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/22/08 SFS . 1.W12_Q346627_T#1748992 [1115065]							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month Day Year 10 22 08	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name				Signature		Month Day Year	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)					U.S. EPA ID Number		
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800) 535-5053	4. Manifest Tracking Number 000121160WAS				
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404		Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195							
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704		U.S. EPA ID Number IND980503890							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
		No.	Type						
		X	1. RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	21727	K		
			2.						
			3.						
	4.								
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/22/08 SES 1. W12_Q346627_T#1748992 wt: 2169kg (47540lb) [11150651]									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month Day Year 10 29 08			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name RALPH W BOYO				Signature 		Month Day Year 10 29 08			
Transporter 2 Printed/Typed Name				Signature		Month Day Year			
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
RECEIVED				Manifest Reference Number:					
18b. Alternate Facility (or Generator) NOV 07 2008				U.S. EPA ID Number					
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator) CRA Inc.				Signature		Month Day Year 10 29 08			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name 				Signature 		Month Day Year 10 29 08			

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY



- 7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012
- 4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777
- 15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264
- 8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555
- 4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890
- 5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992
- 54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537
- 5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402
- 4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: PCB Contaminaged Soil

Disposal Method: Landfilled

Disposal Date: 29-Oct-08

Manifest: 000121160WAS **Net Kg:** 21,609

RECEIVED

NOV 07 2008

CRA Inc.

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENTACT

DATE: <u>10/29/08.</u>		LOAD #: <u>1748992.</u>	
TIME IN: <u>8:05 am.</u>	TIME OUT: <u>9:09 am.</u>	MANIFEST #: <u>000 121160 WAS.</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WORK AREA: Parcel / Area: <u>A0I21-2.</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TEMPERATURE (°F): <u>33</u>	WIND (mph) <input checked="" type="checkbox"/> 0-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> 10-15 <input type="checkbox"/> >15	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	

LOADING INFORMATION:

EQUIPMENT: <u>Sevenson - excavator</u>	NOTES:
MATERIAL: <u>Soil</u>	
LOCATION: <u>Staging Pad/Stockpile: A0I21-2.</u>	
PERSONNEL: <u>Sevenson excavator operator/laborers</u>	

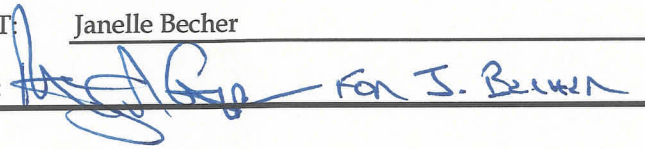
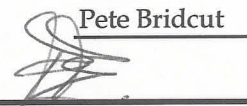
LOAD WEIGHT (LBS):	GROSS: <u>78980</u>	TARE: <u>31180</u>	NET: <u>47800.</u>
--------------------	---------------------	--------------------	--------------------

TRANSPORTER INFORMATION:

TRUCKING COMPANY: <u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>
TRUCK #: <u>1024-2.</u>	_____
TRAILER #: <u>1024-2A.</u>	_____

FINAL INSPECTION:

DRIVER HAS PROPER PAPERWORK: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER: _____

SEVENSON REPRESENTATIVE:	CRA REPRESENTATIVE:
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>
SIGN: 	SIGN: 

SCALE TICKET: 99308

79580 15 9:45 AM 10 29 08	GROSS
30860. 32440. 10/29/08 #	TARE
	DUNNAGE
48720. 47140. 10/29/08 #	NET

VENDOR:	
MATERIAL: Soil	
SHIPPER NO.: 1748993	SIGNED IN:
LOT NO.: SES	
CARRIER: US Bulk.	SIGNED OUT:
TRAILER: 10/29/08 1009A → 1022A	
IN TRACTOR NUMBER: 10/29/08 1022 1009	OUT TRACTOR NUMBER:
REMARKS:	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121161WAS
---	--	-------------------	--	---

5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
---	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
---	------------------------------------

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RD, UN3432 POLYCHLORINATED BIPHENYLS, SOLID, 9, POIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	10/27/08 22145	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/27/08 SFS . 1.W12_Q346627_T#1748993	[1115066]
--	-----------

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.				
Generator's/Offoror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM	Signature 	Month 10	Day 29	Year 08

16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____
--

17. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name Kevin Powers	Signature Kevin Powers	Month 10	Day 19	Year 08
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

18. Discrepancy					
18a. Discrepancy Indication Space	<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection
Manifest Reference Number:					

18b. Alternate Facility (or Generator)	U.S. EPA ID Number
Facility's Phone:	
18c. Signature of Alternate Facility (or Generator)	Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H132	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a				
Printed/Typed Name	Signature	Month	Day	Year

GENERATOR
TRANSPORTER INTL
DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121161WAS			
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195				
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515			
7. Transporter 2 Company Name					U.S. EPA ID Number			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RG, UN3432 POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))			1	DT	10/29/08 21427 22145	K	
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/22/08 SES 1. W12_Q346627_T#1748993 w/ 21836kg (48040lb) [1115066]								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 		Month Day Year 10 29 08	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Kevin Powers Signature: Kevin Powers Month Day Year: 10 29 08 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month Day Year: _____								
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection RECEIVED NOV 07 2008 Manifest Reference Number: _____								
18b. Alternate Facility (or Generator) CRA Inc.					U.S. EPA ID Number			
18c. Signature of Alternate Facility (or Generator)					Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.	2.	3.	4.					
	H132							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: _____ Signature: _____ Month Day Year: 10 29 08								

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505355

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: PCB Contaminaged Soil

Disposal Method: Landfilled

Disposal Date: 29-Oct-08

Manifest: 000121161WAS

Net Kg: 22,145

RECEIVED

NOV 07 2008

CRA Inc.

**Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana**

Distribution:
CRA
ENTACT

DATE: <u>10/29/08.</u>		LOAD #: <u>1748993.</u>	
TIME IN: <u>9:15 am</u>	TIME OUT: <u>9:46 am.</u>	MANIFEST #: <u>000 121161 WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TEMPERATURE (°F): <u>33</u>		WIND (mph) <input checked="" type="checkbox"/> 0-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> 10-15 <input type="checkbox"/> >15	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0I21-2</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>79580</u>	TARE: <u>30860</u>	NET: <u>48720</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1022</u>	_____	
TRAILER #:	<u>1022A</u>	_____	
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER: _____	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Bacher</u>	PRINT: <u>Pete Bridcut</u>		
SIGN: <u>[Signature] FOR J. BACHER</u>	SIGN: <u>[Signature]</u>		

SCALE TICKET: 99317

76520 1b 1135 PM 10 23 08	GROSS
31180.	TARE
	DUNNAGE
45340.	NET

VENDOR:	
MATERIAL: Soil	
SHIPPER NO.: 1748994	SIGNED IN:
LOT NO.: SES	
CARRIER: US Bulk	SIGNED OUT:
TRAILER: 1024-2A	
IN TRACTOR NUMBER: 1024-2.	OUT TRACTOR NUMBER:
REMARKS:	



ease print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121162WAS
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5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 103 GM DRIVE BEDFORD, IN 47421 GEN: 2195
--	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
7. Transporter 2 Company Name	U.S. EPA ID Number

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RO, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE (C))	1	DT	20609	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/27/08 SCS.
 1. W12_Q346627_T#1748994
 [1115067]

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offorer's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM	Signature 	Month 10	Day 27	Year 08
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16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

Transporter signature (for exports only): _____

17. Transporter Acknowledgment of Receipt of Materials	Signature	Month	Day	Year
Transporter 1 Printed/Typed Name RALPH W BOW		10	29	08
Transporter 2 Printed/Typed Name	Signature			

18. Discrepancy

18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number _____

18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____

Facility's Phone: _____

18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132	2.	3.	4.
---------	----	----	----

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S INITIAL COPY



Print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121162WAS
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5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
--	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
---	------------------------------------

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C1))	1	DT	20609	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/22/08 SES.
 1. W12_Q346627_T#1748994
 AM. 206911g (4552014) [1115067]

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offoror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM	Signature 	Month 10	Day 29	Year 08
---	---------------	-------------	-----------	------------

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name RALPH W BOWO	Signature 	Month 10	Day 29	Year 08
--	---------------	-------------	-----------	------------

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year
----------------------------------	-----------	-------	-----	------

18. Discrepancy
 18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

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NOV 07 2008

18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____

18c. Signature of Alternate Facility (or Generator) CRA Inc.	Month	Day	Year
---	-------	-----	------

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132	2.	3.	4.
---------	----	----	----

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name DAVID BARGA	Signature 	Month 10	Day 29	Year 08
---	---------------	-------------	-----------	------------

DESIGNATED FACILITY TO GENERATOR



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: PCB Contaminaged Soil

Disposal Method: Landfilled

Disposal Date: 29-Oct-08

Manifest: 000121162WAS

Net Kg: 20,691

RECEIVED

NOV 07 2008

CRA Inc.

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENACT

DATE: <u>10/29/08</u>		LOAD #: <u>174.8994.</u>
TIME IN: <u>1:30pm</u>	TIME OUT: <u>2:05pm</u>	MANIFEST #: <u>000121162 WAS</u>
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: Soil >50 ppm PCBs
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WORK AREA: Parcel / Area: <u>AOI 21-2.</u>
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

TEMPERATURE (°F): <u>52</u>	WIND (mph) 0-5 <input checked="" type="checkbox"/> 5-10 <input type="checkbox"/> 10-15 <input type="checkbox"/> >15 <input type="checkbox"/>	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW
-----------------------------	--	---

LOADING INFORMATION:

EQUIPMENT: <u>Sevenson - excavator</u>	NOTES:
MATERIAL: <u>Soil</u>	
LOCATION: <u>Staging Pad/Stockpile: AOI 21-2.</u>	
PERSONNEL: <u>Sevenson excavator operator/laborers</u>	

LOAD WEIGHT (LBS):	GROSS: <u>76520</u>	TARE: <u>31180</u>	NET: <u>45340.</u>
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TRANSPORTER INFORMATION:

TRUCKING COMPANY: <u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>
TRUCK #: <u>1024-2</u>	_____
TRAILER #: <u>1024-2A</u>	_____

FINAL INSPECTION:

DRIVER HAS PROPER PAPERWORK: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER: _____

SEVENSON REPRESENTATIVE:	CRA REPRESENTATIVE:
PRINT: <u>Janelle Becher</u>	PRINT: <u>Rete Bridcut</u>
SIGN: FOR J. BECHER	SIGN:

SCALE TICKET: 99318

79960 1b 2:28 PM 10 29 08	GROSS
30860.	TARE
	DUNNAGE
49120.	NET

VENDOR:	
MATERIAL: Soil.	
SHIPPER NO.: 1748995	SIGNED IN: SW
LOT NO.: SES	
CARRIER: US BULK	SIGNED OUT:
TRAILER: 1022A	
IN TRACTOR NUMBER: 1022.	OUT TRACTOR NUMBER:
REMARKS:	

L



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121163WAS								
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195									
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515								
7. Transporter 2 Company Name					U.S. EPA ID Number								
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes					
				No.	Type								
	X	1. RD, UN3432 POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))			1	DT	22327	K					
		2.											
		3.											
	4.												
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 1/1/2008 2. 1.W12_Q346627_T#1748995 [1115068]													
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.													
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM								Signature		Month	Day	Year	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____													
17. Transporter Acknowledgment of Receipt of Materials													
Transporter 1 Printed/Typed Name Kevin Powers								Signature Kevin Powers		Month	Day	Year	
Transporter 2 Printed/Typed Name								Signature		Month	Day	Year	
18. Discrepancy													
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection													
Manifest Reference Number: _____													
18b. Alternate Facility (or Generator)								U.S. EPA ID Number					
Facility's Phone: _____													
18c. Signature of Alternate Facility (or Generator)								Month		Day	Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)													
1.	H132			2.				3.			4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a													
Printed/Typed Name								Signature		Month	Day	Year	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121163WAS
---	--	-------------------	--	---

5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
--	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
---	------------------------------------

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE (C))	1	DT	22327	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/27/08 SFS
 1. W12_Q346627_T#1748995
 ml (4475016) 22173 (15068)

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offoror's Printed/Typed Name: JEFF NICHOLS OF CRA, AGENT FOR GM
 Signature: [Signature]
 Month Day Year: 10 29 08

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____
 Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name Kevin Powers	Signature Kevin Powers	Month Day Year 10 29 08
Transporter 2 Printed/Typed Name	Signature	Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____

18b. Alternate Facility (or Generator) **NOV 07 2008** U.S. EPA ID Number _____
 Facility's Phone: **CRA Inc.**

18c. Signature of Alternate Facility (or Generator) _____
 Month Day Year _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132	2.	3.	4.
---------	----	----	----

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: [Signature]
 Signature: [Signature]
 Month Day Year: 10 29 08

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: PCB Contaminaged Soil

Disposal Method: Landfilled

Disposal Date: 29-Oct-08

Manifest: 000121163WAS

Net Kg: 22,173

RECEIVED

NOV 07 2008)

CRA Inc.

**Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana**

Distribution:
CRA
ENTACT

DATE: <u>10/29/08.</u>		LOAD #: <u>1748995</u>	
TIME IN: <u>2:00 pm.</u>	TIME OUT: <u>2:28 pm.</u>	MANIFEST #: <u>00011^{10/29/08} 121163 WAS,</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	WORK AREA: <u>Parcel / Area: AGI 21-2</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>		
TEMPERATURE (°F): <u>52</u>	WIND (mph) 0-5 <input checked="" type="checkbox"/> 10-15 >15	<input checked="" type="checkbox"/> CLEAR CLOUDY RAIN SNOW	

LOADING INFORMATION:

EQUIPMENT: <u>Sevenson - excavator</u>	NOTES:
MATERIAL: <u>Soil</u>	
LOCATION: <u>Staging Pad/Stockpile: AGI 21-2.</u>	
PERSONNEL: <u>Sevenson excavator operator/laborers</u>	

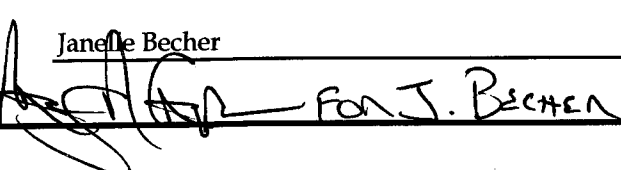

LOAD WEIGHT (LBS): GROSS: 79980 TARE: 30860 NET: 49120.

TRANSPORTER INFORMATION:

TRUCKING COMPANY: <u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>
TRUCK #: <u>1022.</u>	_____
TRAILER #: <u>1022A.</u>	_____

FINAL INSPECTION:

DRIVER HAS PROPER PAPERWORK: <input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	LOAD COVERED / SECURED: <input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
LINER INSTALLED: <input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	TRUCK & TRAILER CLEAN: <input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
PROPER PLACARDS USED: <input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	OTHER: _____

SEVENSON REPRESENTATIVE:	CRA REPRESENTATIVE:
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>
SIGN: 	SIGN: 

GM POWERTRAIN, Bedford Plant, 105 GM Drive, Bedford, Indiana 47421

SCALE TICKET: 99322

75500 lb 8:45 AM 10 30 08	GROSS
30860.	TARE
	DUNNAGE
44640.	NET

VENDOR:	
MATERIAL: Soil	
SHIPPER NO.: 1748996	SIGNED IN: SW
LOT NO.: SES.	
CARRIER: U.S. SUHK	SIGNED OUT:
TRAILER: 1022A	
IN TRACTOR NUMBER: 1022.	OUT TRACTOR NUMBER:
REMARKS:	

L



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121164WAS			
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404			Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195					
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC				U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704				U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	20291	K			
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/23/08 SFS. . 1. W12_Q346627_T#1748996 [11150691]								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month 10	Day 30	Year 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Kevin Powers				Signature Kevin Powers		Month 10	Day 30	Year 08
Transporter 2 Printed/Typed Name				Signature		Month	Day	Year
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Manifest Reference Number:								
18b. Alternate Facility (or Generator)				U.S. EPA ID Number				
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator)						Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name				Signature		Month	Day	Year



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121164WAS				
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195					
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
		No.	Type						
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, POIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	20291	K				
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/23/08 SES. 1. W12_Q346627_T#1748996 <i>mt, 19973kg (43940lb)</i> [1115069]									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 		Month Day Year 10 30 08.		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Kevin Powers					Signature Kevin Powers		Month Day Year 10 30 08		
Transporter 2 Printed/Typed Name					Signature		Month Day Year		
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
18b. Alternate Facility (or Generator) RECEIVED NOV 07 2008					Manifest Reference Number: CRA Inc.			U.S. EPA ID Number	
Facility's Phone:					Month Day Year				
18c. Signature of Alternate Facility (or Generator) CRA Inc.									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a.									
Printed/Typed Name 					Signature 		Month Day Year 10 30 08		

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 30-Oct-08

Manifest: 000 121164WAS

Net Kg: 19973

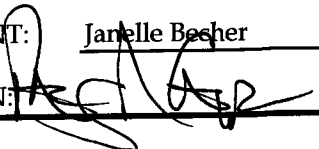
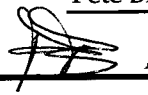
RECEIVED
NOV 07 2008

CRA Inc.


KENNETH S. PRICE, CHAIRMAN

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENTACT

DATE: <u>10/30/08.</u>		LOAD #: <u>174.8996.</u>	
TIME IN: <u>7:46 am.</u>	TIME OUT: <u>8:46 am.</u>	MANIFEST #: <u>000 121164WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	WORK AREA: <u>Parcel / Area: A0221-2.</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TEMPERATURE (°F): <u>28</u>	WIND (mph) <input checked="" type="checkbox"/> 0-3 <input type="checkbox"/> 5-10 <input type="checkbox"/> 10-15 <input type="checkbox"/> >15	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0221-2.</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>75500</u>	TARE: <u>30860</u>	NET: <u>44640.</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1022.</u>	_____	
TRAILER #:	<u>1022A</u>	_____	
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER: _____	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Basher</u>	PRINT: <u>Pete Bridcut</u>		
SIGN: 	SIGN: 		

SCALE TICKET: 99469

7E4E0 16 8:04 AM 10 30 08	GROSS
31 180.	TARE
	DUNNAGE
45280.	NET

VENDOR:	
MATERIAL: <i>Sol.</i>	
SHIPPER NO.: <i>1748997.</i>	SIGNED IN: <i>SW</i>
LOT NO.: <i>SES.</i>	
CARRIER: <i>STALKER</i>	SIGNED OUT:
TRAILER: <i>1024-2A.</i>	
IN TRACTOR NUMBER: <i>1024-2</i>	OUT TRACTOR NUMBER:
REMARKS:	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121165WAS				
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404			Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195						
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC				U.S. EPA ID Number PAD987347515					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 (765)435-2704				U.S. EPA ID Number IND980503890					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
				No.	Type				
X	1. RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))			1	DT	20982	K		
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/23/08 SFS . 1.W12_Q346627_T#1748997 [1115070]									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offor's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month 10	Day 30	Year 08	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name RACPN W BOWEN				Signature 		Month 10	Day 30	Year 08	
Transporter 2 Printed/Typed Name				Signature		Month	Day	Year	
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
Manifest Reference Number: _____									
18b. Alternate Facility (or Generator)						U.S. EPA ID Number			
Facility's Phone: _____									
18c. Signature of Alternate Facility (or Generator)						Month	Day	Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name				Signature		Month	Day	Year	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053		4. Manifest Tracking Number 000121165WAS		
		5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195		
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC						U.S. EPA ID Number PAD987347515		
7. Transporter 2 Company Name						U.S. EPA ID Number		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704						U.S. EPA ID Number IND980503890		
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. RQ, UN3432 POLYCHLORINATED BIPHENYLS SOLID, 9, PGIII, (PCB REMEDIATION WASTE 7&1.61 (C))		1	DT	20782	K	
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/29/08 SFS 1. W12_Q346627_T#1748997 mt. 2045516 (45000lb) 11150703								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offorer's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month Day Year 10 30 08		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name RALPH W BOWEN				Signature 		Month Day Year 10 30 08		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
RECEIVED				Manifest Reference Number:				
18b. Alternate Facility (or Generator) NOV 07 2008				U.S. EPA ID Number				
18c. Signature of Alternate Facility (or Generator) CRA Inc.								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name 				Signature 		Month Day Year 10 30 08		



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 30-Oct-08

Manifest: 000 121165WAS

Net Kg:
20455

RECEIVED
NOV 07 2008)

CRA Inc.


KENNETH S. PRICE, CHAIRMAN

**Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana**

Distribution:
CRA
ENTACT

DATE: <u>10/30/08</u>		LOAD #: <u>1748997</u>	
TIME IN: <u>8:04am</u>	TIME OUT: <u>9:04am</u>	MANIFEST #: <u>000 121165 WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	WORK AREA: <u>Parcel / Area: A0I-21-2</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TEMPERATURE (°F): <u>28</u>	WIND (mph) <input checked="" type="checkbox"/> 0-3 <input type="checkbox"/> 5-10 <input type="checkbox"/> 10-15 <input type="checkbox"/> >15	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	

LOADING INFORMATION:

EQUIPMENT: <u>Sevenson - excavator</u>	NOTES:
MATERIAL: <u>Soil</u>	
LOCATION: <u>Staging Pad/Stockpile: A0I21-2</u>	
PERSONNEL: <u>Sevenson excavator operator/laborers</u>	
LOAD WEIGHT (LBS):	GROSS: <u>76460</u> TARE: <u>31180</u> NET: <u>45280</u>

TRANSPORTER INFORMATION:

TRUCKING COMPANY: <u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>
TRUCK #: <u>1024-2</u>	_____
TRAILER #: <u>1024-2A</u>	_____

FINAL INSPECTION:

DRIVER HAS PROPER PAPERWORK: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER: _____

SEVENSON REPRESENTATIVE:	CRA REPRESENTATIVE:
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>
SIGN: <u>For J. Becher</u>	SIGN:

SCALE TICKET: 99473

79480 15 11-9 AM 10 20 08	GROSS
32300	TARE
	DUNNAGE
46180.	NET

VENDOR:	
MATERIAL: Soil.	
SHIPPER NO.: 1748998.	SIGNED IN: JAC
LOT NO.: 9ES	
CARRIER: US Bulk	SIGNED OUT:
TRAILER: 1024-3A	
IN TRACTOR NUMBER: 1024-3.	OUT TRACTOR NUMBER:
REMARKS:	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121166WAS			
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195				
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515			
7. Transporter 2 Company Name					U.S. EPA ID Number			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. RO, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))		1	DT	20191 A769 10/30/08	K	
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/30/08 . 1. W12_Q346627_T#1748998 [1115071]								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month Day Year 10 30 08		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Chet Cuthbertson				Signature 		Month Day Year 10 30 08		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator) U.S. EPA ID Number								
18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name				Signature		Month Day Year		



UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800) 535-5053	4. Manifest Tracking Number 000121166WAS
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5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
--	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
---	------------------------------------

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	20991 19769 10/30/08	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/23/08 SES. 1. W12_Q346627_T#1748998 21055kg (46320lb) [1115071]

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.				
Generator's/Offorer's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM	Signature 	Month 10	Day 30	Year 08

16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit:
Transporter signature (for exports only):		Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name Chet Cuthbertson	Signature 	Month 10	Day 30	Year 08
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

18. Discrepancy				
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input checked="" type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection				
RECEIVED				
NOV 07 2008				
18b. Alternate Facility (or Generator)				U.S. EPA ID Number
Facility's Phone: CRA Inc.				

18c. Signature of Alternate Facility (or Generator)				Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132	2.	3.	4.			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name 			Signature 		Month 10	Day 30	Year 08



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 30-Oct-08

Manifest: 000 121166WAS

Net Kg:
21055

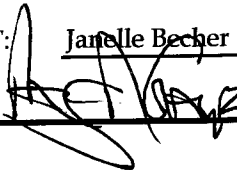
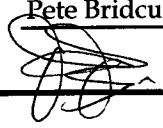
RECEIVED
NOV 07 2008

CRA Inc.

KENNETH S. PRICE, CHAIRMAN

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENTACT

DATE: <u>10/30/08.</u>		LOAD #: <u>10/23/08 to 1748998.</u>	
TIME IN: <u>8:24 am.</u>	TIME OUT: <u>9:49 am.</u>	MANIFEST #: <u>000 121166 WAS.</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	WORK AREA: <u>Parcel / Area: A0I21-2.</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TEMPERATURE (°F): <u>33</u>	WIND (mph) <input checked="" type="checkbox"/> 0-5 5-10 10-15 >15	<input checked="" type="checkbox"/> CLEAR CLOUDY RAIN SNOW	
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0I21-2.</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>78480.</u>	TARE: <u>32300</u>	NET: <u>46180.</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1024-3</u>		
TRAILER #:	<u>1624-3A.</u>		
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
LINER INSTALLED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	OTHER:	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>		
SIGN:  <u>For J. Becher</u>	SIGN: 		

SCALE TICKET: 99328

79940 1b 9453 AM 10 30 08	GROSS
30540.	TARE
	DUNNAGE
49400.	NET

VENDOR:	
MATERIAL: Soil	
SHIPPER NO.: 1748999	SIGNED IN: SW
LOT NO.: SES.	
CARRIER: STALKER	SIGNED OUT:
TRAILER: 1024-4A	
IN TRACTOR NUMBER: 1024-4.	OUT TRACTOR NUMBER:
REMARKS:	

L



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121167WAS				
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195					
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
		No.	Type						
X	1. RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	22455	K				
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/23/08 SFS . 1. W12_Q346627_T#1748999 C11150721									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeor's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 		Month 10	Day 30	Year 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Tom JEFFERS					Signature 		Month 10	Day 30	Year 08
Transporter 2 Printed/Typed Name					Signature		Month	Day	Year
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
Manifest Reference Number: _____									
18b. Alternate Facility (or Generator)					U.S. EPA ID Number				
Facility's Phone: _____									
18c. Signature of Alternate Facility (or Generator)							Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name					Signature		Month	Day	Year

GENERATOR
TRANSPORTER INTL
DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800) 535-5053	4. Manifest Tracking Number 000121167WAS				
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195					
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
X	1. RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, POIII, (PCB REMEDIATION WASTE (C)) 761.61			1		DT	22455	K	
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/23/08 SFS . 1. W12_Q346627_T#1748999 M: 22336kg (49140lb) [1115072]									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 			Month Day Year 10 30 08	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Tom JEFFERS					Signature 			Month Day Year 10 30 08	
Transporter 2 Printed/Typed Name					Signature			Month Day Year	
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
18b. Alternate Facility (or Generator) Facility's Phone: NOV 07 2008					Manifest Reference Number: _____ U.S. EPA ID Number				
18c. Signature of Alternate Facility (or Generator) CRA Inc.									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name 					Signature 			Month Day Year 10 30 08	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 30-Oct-08

Manifest: 000 121167WAS

Net Kg:
22336

RECEIVED

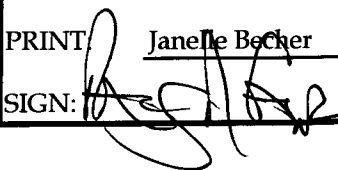
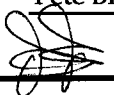
NOV 07 2008)

CRA Inc.


KENNETH S. PRICE, CHAIRMAN

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENTACT

DATE: <u>10/30/08</u>		LOAD #: <u>1248999</u>	
TIME IN: <u>8:58am</u>	TIME OUT: <u>9:58am</u>	MANIFEST #: <u>000121167WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	WORK AREA: Parcel / Area: <u>A0I21-2</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TEMPERATURE (°F): <u>33</u>	WIND (mph) <input checked="" type="checkbox"/> 0-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> 10-15 <input type="checkbox"/> >15	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0I21-2</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>79940</u>	TARE: <u>30540</u>	NET: <u>49400</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1024-4</u>	_____	
TRAILER #:	<u>1024-4A</u>	_____	
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER: _____	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>		
SIGN: 	SIGN: 		

SCALE TICKET: 99482

76420 1b 1:34 PM 10 30 08	GROSS
30860.	TARE
	DUNNAGE
45560.	NET

VENDOR:	
MATERIAL: Soil.	
SHIPPER NO.: 1749000.	SIGNED IN: JAC
LOT NO.: SES	SIGNED OUT:
CARRIER: US Bulk.	
TRAILER: 1022 A	
IN TRACTOR NUMBER: 1022.	OUT TRACTOR NUMBER:
REMARKS:	



UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121168WAS
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5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
---	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
---	------------------------------------

7. Transporter 2 Company Name	U.S. EPA ID Number
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8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	20709	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/23/08 SFS. . 1.W12_Q346627_T#1749000	[1115073]
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15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offor's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM	Signature 	Month 10	Day 30	Year 08
---	---------------	-------------	-----------	------------

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name Kevin Powers	Signature Kevin Powers	Month 10	Day 30	Year 08
--	---------------------------	-------------	-----------	------------

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year
----------------------------------	-----------	-------	-----	------

18. Discrepancy

18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____ U.S. EPA ID Number

18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number

Facility's Phone: _____

18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132	2.	3.	4.
---------	----	----	----

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year
--------------------	-----------	-------	-----	------

GENERATOR DESIGNATED FACILITY TRANSPORTER INT'L



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800) 535-5053	4. Manifest Tracking Number 000121168WAS		
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195			
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	20709	K		
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/23/08 SES. 1. W12_Q346627_T#1749000 net 20618 kg (45360 lb) [1115073]							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offendor's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 		Month Day Year 10 30 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Kevin Powers Signature Kevin Powers Month Day Year 10 30 08 Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____							
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity RECEIVED <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ 18b. Alternate Facility (or Generator) NOV 07 2008 U.S. EPA ID Number _____ Facility's Phone: CRA Inc. 18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name _____ Signature _____ Month Day Year 10 30 08							

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 30-Oct-08

Manifest: 000 121168WAS

Net Kg: 20618

RECEIVED


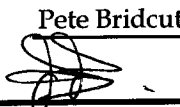
NOV 07 2008)

CRA Inc.


KENNETH S. PRICE, CHAIRMAN

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENTACT

DATE: <u>10/30/08</u>		LOAD #: <u>1749000</u>	
TIME IN: <u>12:34 pm</u>	TIME OUT: <u>1:34 pm</u>	MANIFEST #: <u>000 121168 WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	WORK AREA: <u>Parcel / Area: AOI 21-2.</u>	
TRASH / DEBRIS	YES <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TEMPERATURE (°F): <u>57</u>	WIND (mph) 0-5 <input checked="" type="checkbox"/> 5-10 <input type="checkbox"/> 10-15 <input type="checkbox"/> >15 <input type="checkbox"/>	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: AOI 21-2.</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>76420</u>	TARE: <u>30860</u>	NET: <u>45560</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1022</u>	_____	
TRAILER #:	<u>1022A</u>	_____	
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER: _____	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>		
SIGN: 	SIGN: 		

SCALE TICKET: 99335

79720 1b 0418 PM 10 30 08	GROSS
32300.	TARE
	DUNNAGE
47420.	NET

VENDOR:	
MATERIAL: <i>Sol.</i>	
SHIPPER NO.: <i>1749001</i>	SIGNED IN:
LOT NO.: <i>SES</i>	
CARRIER: <i>US Bulk.</i>	SIGNED OUT:
TRAILER: <i>1024-4A-3A</i> <small>10/30/08</small>	
IN TRACTOR NUMBER: <i>1024-43</i> <small>10/30/08</small>	OUT TRACTOR NUMBER:
REMARKS:	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121169WAS			
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404		Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195						
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC				U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704				U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
			No.	Type				
	X	1. RO, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	21555	K		
		2.						
		3.						
	4.							
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/23/08 SFS . 1. W12_Q346627_T#1749001 [1115074]								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month 10	Day 30	Year 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Chet Cuthbertson				Signature 		Month 10	Day 30	Year 08
Transporter 2 Printed/Typed Name				Signature		Month	Day	Year
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Manifest Reference Number: _____								
18b. Alternate Facility (or Generator)				U.S. EPA ID Number				
Facility's Phone: _____								
18c. Signature of Alternate Facility (or Generator)						Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1.	2.	3.	4.					
	H132							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name				Signature		Month	Day	Year

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121169WAS		
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195			
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RO, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C1))	1	DT	21555	K		
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/23/08 SES 1. W12_Q346627_T#1749001 net 22245kg (48940lb) [1115074]							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 		Month Day Year 10 30 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Chet Cuthbertson					Signature Chet Cuthbertson		Month Day Year 10 30 08
Transporter 2 Printed/Typed Name					Signature		Month Day Year
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____							
18b. Alternate Facility (or Generator) NOV 07 2008 U.S. EPA ID Number							
18c. Signature of Alternate Facility (or Generator) CRA Inc. Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Drew Barba					Signature 		Month Day Year 10 30 08

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILLD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 30-Oct-08

Manifest: 000 121169WAS

Net Kg: 22245

RECEIVED

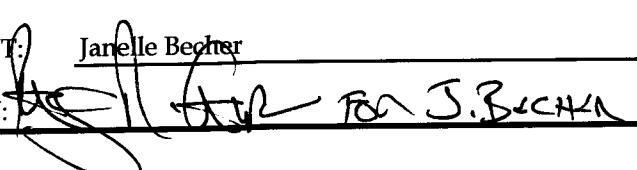
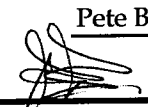
NOV 07 2008

CRA Inc.


KENNETH S. PRICE, CHAIRMAN

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENTACT

DATE: <u>10/30/08</u>		LOAD #: <u>1749001</u>	
TIME IN: <u>1:18 pm</u>	TIME OUT: <u>2:18 pm</u>	MANIFEST #: <u>000121169 WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	WORK AREA: <u>Parcel / Area: A0721-2</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
TEMPERATURE (°F): <u>57</u>	WIND (mph) 0-5 <input checked="" type="checkbox"/> 5-10 <input type="checkbox"/> 10-15 <input type="checkbox"/> >15 <input type="checkbox"/>	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0721-2</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>79720</u>	TARE: <u>32300</u>	NET: <u>47420</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1024-3</u>	_____	
TRAILER #:	<u>1024-3A</u>	_____	
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	LOAD COVERED / SECURED:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
LINER INSTALLED:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	TRUCK & TRAILER CLEAN:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
PROPER PLACARDS USED:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	OTHER: _____	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>		
SIGN: 	SIGN: 		

SCALE TICKET: 99336

79840 16 2743 PM 10 30 08	GROSS
31180	TARE
	DUNNAGE
48660	NET

VENDOR:	
MATERIAL: Soil.	
SHIPPER NO.: 1749002.	SIGNED IN:
LOT NO.: SES.	
CARRIER: US Bulk	SIGNED OUT:
TRAILER: 1024-2A.	
IN TRACTOR NUMBER: 1024-2.	OUT TRACTOR NUMBER:
REMARKS:	

L



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121170WAS					
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404		Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195								
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC				U.S. EPA ID Number PAD987347515						
7. Transporter 2 Company Name				U.S. EPA ID Number						
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 (765)435-2704				U.S. EPA ID Number IND980503890						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. RO, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, POIII, (PCB REMEDIATION WASTE 761.61 (C))			1	DT	2218	K			
	2.									
	3.									
	4.									
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/23/08 SFS . 1. W12_Q346627_T#1749002 [1115075]										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offoror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 			Month 10	Day 30	Year 08	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____										
17. Transporter Acknowledgment of Receipt of Materials										
Transporter 1 Printed/Typed Name RACPAW 2008				Signature 			Month 10	Day 20	Year 08	
Transporter 2 Printed/Typed Name				Signature			Month	Day	Year	
18. Discrepancy										
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection										
Manifest Reference Number: _____										
18b. Alternate Facility (or Generator)						U.S. EPA ID Number				
Facility's Phone: _____										
18c. Signature of Alternate Facility (or Generator)						Month	Day	Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H132		2.		3.		4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name				Signature			Month	Day	Year	

GENERATOR
TRANSPORTER INTL
DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121170WAS
---	--	-------------------	--	---

5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
--	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
---	------------------------------------

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	22118	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/23/08 SES
 . 1. W12_Q346627_T#1749002
 W 22291kg (49040lb) [1115075]

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offorer's Printed/Typed Name: JEFF NICHOLS OF CRA, AGENT FOR GM
 Signature: [Signature]
 Month Day Year: 10 30 08

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____
 Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: RALPH W ROWE
 Signature: [Signature]
 Month Day Year: 10 20 08

Transporter 2 Printed/Typed Name: _____
 Signature: _____
 Month Day Year: _____

18. Discrepancy

18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: _____

18b. Alternate Facility (or Generator) NOV 07 2008 U.S. EPA ID Number _____
 Facility's Phone: _____

18c. Signature of Alternate Facility (or Generator) CRA Inc. Month Day Year _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132	2.	3.	4.
---------	----	----	----

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: [Signature] Signature: [Signature]
 Month Day Year: 10 30 08



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 30-Oct-08

Manifest: 000 121170WAS

Net Kg: 22291

RECEIVED

NOV 07 2008

CRA Inc.


KENNETH S. PRICE, CHAIRMAN

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENACT

DATE: <u>10/30/08</u>		LOAD #: <u>1749002</u>
TIME IN: <u>1:43 pm</u>	TIME OUT: <u>2:43 pm</u>	MANIFEST #: <u>000 121170 WAS</u>
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION:
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	Soil >50 ppm PCBs
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WORK AREA:
OTHER:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	Parcel / Area: <u>ACT 21-2</u>

TEMPERATURE (°F): <u>57</u>	WIND (mph) 0-5 <input checked="" type="checkbox"/> 10-15 >15	<input checked="" type="checkbox"/> CLEAR CLOUDY RAIN SNOW
-----------------------------	--	--

LOADING INFORMATION:

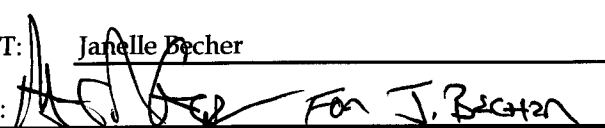
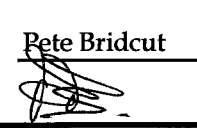
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: ACT 21-2</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>79840</u>	TARE: <u>31180</u>	NET: <u>48660</u>

TRANSPORTER INFORMATION:

TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>
TRUCK #:	<u>1024-2</u>	
TRAILER #:	<u>1024-2A</u>	

FINAL INSPECTION:

DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
LINER INSTALLED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	OTHER:	

SEVENSON REPRESENTATIVE:	CRA REPRESENTATIVE:
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>
SIGN: 	SIGN: 

SCALE TICKET: 99486

79240 1b 3:13 PM 10 30 08	GROSS
30546	TARE
	DUNNAGE
48700.	NET

VENDOR:	
MATERIAL: Ser 1	
SHIPPER NO.: 1749003	SIGNED IN:
LOT NO.: SES.	
CARRIER: US Bulk	SIGNED OUT:
TRAILER: 1024-4A.	
IN TRACTOR NUMBER: 10244.	OUT TRACTOR NUMBER:
REMARKS:	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121171WAS			
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404			Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195					
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC				U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 (765)435-2704				U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
X	1. RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))		1 DT		22136	K		
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/23/08 SFS . 1. W12_Q346627_T#1749003 [1115076]								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offoror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month 10	Day 30	Year 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Dave Bishop				Signature 		Month 10	Day 30	Year 08
Transporter 2 Printed/Typed Name				Signature		Month	Day	Year
18. Discrepancy								
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
18b. Alternate Facility (or Generator) U.S. EPA ID Number								
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H132		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name				Signature		Month	Day	Year

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121171WAS
---	---	--------------------------	---	--

5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
---	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
--	---

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	---

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	22136	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/23/08 SES
1. W12_Q346627_T#1749003
wt: 22273kg (49000lb) **[1115076]**

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offoror's Printed/Typed Name: **JEFF NICHOLS OF CRA, AGENT FOR GM** Signature: *[Signature]* Month: **10** Day: **30** Year: **08**

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: *Dave Bisping* Signature: *[Signature]* Month: **10** Day: **30** Year: **08**

Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

18. Discrepancy

18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

RECEIVED Manifest Reference Number: _____

18b. Alternate Facility (or Generator) U.S. EPA ID Number: _____

Facility's Phone: **NOV 07 2008**

18c. Signature of Alternate Facility (or Generator) **CRA Inc.** Month: _____ Day: _____ Year: _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. **H132** 2. _____ 3. _____ 4. _____

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: *[Signature]* Signature: *[Signature]* Month: **10** Day: **30** Year: **08**

GENERATOR
TRANSPORTER
DESIGNATED FACILITY

DESIGNATED FACILITY TO GENERATOR



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 30-Oct-08

Manifest: 000 121171WAS

Net Kg: 22273

RECEIVED

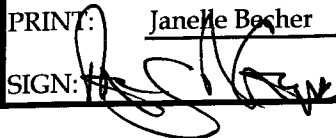
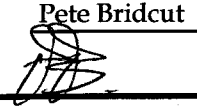
NOV 07 2008

CRA Inc.

KENNETH S. PRICE, CHAIRMAN

**Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana**

Distribution:
CRA
ENTACT

DATE: <u>10/30/08</u>		LOAD #: <u>1749003</u>	
TIME IN: <u>2:13 pm</u>	TIME OUT: <u>3:13 pm</u>	MANIFEST #: <u>000 121171 WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	WORK AREA: <u>Parcel / Area: A0121-2</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TEMPERATURE (°F): <u>57</u>	WIND (mph) 0-5 <input type="checkbox"/> <u>5-10</u> <input checked="" type="checkbox"/> 10-15 >15	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0121-2</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>79240</u>	TARE: <u>30540</u>	NET: <u>48700</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1024-4</u>		
TRAILER #:	<u>1024-4A</u>		
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER:	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Bacher</u>	PRINT: <u>Pete Bridcut</u>		
SIGN: 	SIGN: 		

SCALE TICKET: 99393

77940 1b #07 AM 10 31 08	GROSS
31180.	TARE
	DUNNAGE
46760.	NET

VENDOR:	
MATERIAL: Soil.	
SHIPPER NO.: 1749004.	SIGNED IN:
LOT NO.: SES.	
CARRIER: US Bulk.	SIGNED OUT:
TRAILER: 1024-2A	
IN TRACTOR NUMBER: 1024-2.	OUT TRACTOR NUMBER:
REMARKS:	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121172WAS				
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195					
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 (765)435-2704					U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
				No.	Type				
X	1. RD, UN3432 POLYCHLORINATED BIPHENYLS, SOLID; 9, PGIII, (PCB REMEDIATION WASTE 7&1.61 (C))			1	DT	21255	K		
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/21/08 SES. . 1. W12_Q346627_T#1749004 [1115077]									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offoror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 		Month 10	Day 31	Year 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name RALPH W. CRAY					Signature 		Month 10	Day 31	Year 08
Transporter 2 Printed/Typed Name					Signature		Month	Day	Year
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
Manifest Reference Number: _____									
18b. Alternate Facility (or Generator)					U.S. EPA ID Number				
Facility's Phone: _____									
18c. Signature of Alternate Facility (or Generator)							Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1.	H132			2.			3.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name					Signature		Month	Day	Year

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121172WAS			
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195				
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515			
7. Transporter 2 Company Name					U.S. EPA ID Number			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))			1	DT	21255	K	
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SES. 1. W12_Q346627_T#1749004 amt. 21245kg (46740lb) [1115077]								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Officer's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month Day Year 10 31 08		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
17. Transporter Acknowledgment of Receipt of Materials Transporter signature (for exports only): _____ Transporter 1 Printed/Typed Name: RALPH W BAYO Signature: Month Day Year: 10 31 08 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month Day Year: _____								
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input checked="" type="checkbox"/> Type RECEIVED <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ 18b. Alternate Facility (or Generator) NOV 07 2008 U.S. EPA ID Number: _____ Facility's Phone: CRA Inc. 18c. Signature of Alternate Facility (or Generator) _____ Month Day Year: _____								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.								
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Signature: Month Day Year: 10 31 08								

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 31-Oct-08

Manifest: 000 121172WAS

Net Kg: 21245

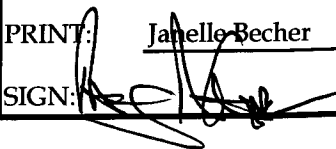

RECEIVED
NOV 07 2008

CRA Inc.

KENNETH S. PRICE, CHAIRMAN

**Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana**

Distribution:
CRA
ENTACT

DATE: <u>10/31/08</u>		LOAD #: <u>1749004</u>	
TIME IN: <u>8:07am</u>	TIME OUT: <u>9:07am</u>	MANIFEST #: <u>000121172WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	WORK AREA: <u>Parcel / Area: AOI 21-2</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TEMPERATURE (°F): <u>45</u>	WIND (mph) <input checked="" type="checkbox"/> 0-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> 10-15 <input type="checkbox"/> >15	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: AOI 21-2</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>77940</u>	TARE: <u>31180</u>	NET: <u>46760</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1024-2</u>		
TRAILER #:	<u>1024-2A</u>		
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER:	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>		
SIGN: 	SIGN: 		

SCALE TICKET: 99342

77100 1b 3:17 AM 10 31 08	GROSS
30540.	TARE
	DUNNAGE
46560.	NET

VENDOR:	
MATERIAL: Soil.	
SHIPPER NO.: 174.9005.	SIGNED IN:
LOT NO.: SES.	
CARRIER: USBulk 1024-4-10/31/09	SIGNED OUT:
TRAILER: 1024-4A	
IN TRACTOR NUMBER: 1024-4.	OUT TRACTOR NUMBER:
REMARKS:	



base print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5033	4. Manifest Tracking Number 000121173WAS
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5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
--	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
7. Transporter 2 Company Name	U.S. EPA ID Number

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	2176.4	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/31/08 SFS
 1. W12_Q346627_T#1749005
 [1115078]

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offorer's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM	Signature 	Month 10	Day 31	Year 08
---	---------------	-------------	-----------	------------

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name Dan Bishop	Signature 	Month 10	Day 31	Year 08
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

18. Discrepancy

18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____

18b. Alternate Facility (or Generator) U.S. EPA ID Number _____

Facility's Phone: _____

18c. Signature of Alternate Facility (or Generator) Month _____ Day _____ Year _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132	2.	3.	4.
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20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name	Signature	Month	Day	Year
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ease print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121173WAS
---	---	--------------------------	---	--

5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
--	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
--	---

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	---

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	2164.	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SES
1. W12_Q346627_T#1749005
w/ 2118kg (46460lb) [1115078]

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM	Signature 	Month 10	Day 31	Year 08
--	---------------	--------------------	------------------	-------------------

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name <i>Dave Bisping</i>	Signature <i>Dave Bisping</i>	Month 10	Day 30	Year 08
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

18. Discrepancy

18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____

18b. Alternate Facility (or Generator) **NOV 07 2008** U.S. EPA ID Number _____

Facility's Phone: **CRA Inc.**

18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132	2.	3.	4.
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20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name <i>Dave Bisping</i>	Signature <i>Dave Bisping</i>	Month 10	Day 31	Year 08
---	----------------------------------	--------------------	------------------	-------------------



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 31-Oct-08


Manifest: 000 121173WAS

Net Kg:
21118

RECEIVED

NOV 07 2008

CRA Inc.


KENNETH S. PRICE, CHAIRMAN

**Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana**

Distribution:
CRA
ENTACT

DATE: <u>10/31/08.</u>		LOAD #: <u>1749005</u>
TIME IN: <u>8:17am.</u>	TIME OUT: <u>9:17am.</u>	MANIFEST #: <u>000121173WAS.</u>
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	WORK AREA: <u>Parcel / Area: A0I21-2.</u>
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

TEMPERATURE (°F): <u>45</u>	WIND (mph) <input checked="" type="checkbox"/> 0-3 <input type="checkbox"/> 5-10 <input type="checkbox"/> 10-15 <input type="checkbox"/> >15	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW
-----------------------------	--	---

LOADING INFORMATION:

EQUIPMENT: <u>Sevenson - excavator</u>	NOTES:
MATERIAL: <u>Soil</u>	
LOCATION: <u>Staging Pad/Stockpile: A0I21-2</u>	
PERSONNEL: <u>Sevenson excavator operator/laborers</u>	

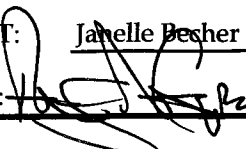

LOAD WEIGHT (LBS):	GROSS: <u>77100</u>	TARE: <u>30540</u>	NET: <u>46560</u>
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TRANSPORTER INFORMATION:

TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>
TRUCK #:	<u>1024-4</u>	_____
TRAILER #:	<u>1024-4A.</u>	_____

FINAL INSPECTION:

DRIVER HAS PROPER PAPERWORK: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER: _____

SEVENSON REPRESENTATIVE:	CRA REPRESENTATIVE:
PRINT: <u>Janelle Decher</u>	PRINT: <u>Pete Bridcut</u>
SIGN: 	SIGN: 

SCALE TICKET: 99343

79520 1b 3:24 AM 10 31 08	GROSS
32300.	TARE
DUNNAGE	
47220.	NET

VENDOR:	
MATERIAL: Soil.	
SHIPPER NO.: 1749006.	SIGNED IN:
LOT NO.: SB	
CARRIER: US Bulk.	SIGNED OUT:
TRAILER: 1024-3A.	
IN TRACTOR NUMBER: 1024-3.	OUT TRACTOR NUMBER:
REMARKS:	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121174WAS
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5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
---	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
--	---

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 (765)435-2704	U.S. EPA ID Number IND980503690
--	---

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, POIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	211611	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/31/08 SFS . 1. W12_Q346627_T#1749006	(1115079)
---	------------------

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM	Signature 	Month 10	Day 31	Year 08
--	---------------	--------------------	------------------	-------------------

16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: _____
Transporter signature (for exports only): _____	Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials	Signature	Month	Day	Year
Transporter 1 Printed/Typed Name Chet Cuthbertson		10	31	08
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

18. Discrepancy	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection
18b. Alternate Facility (or Generator)	U.S. EPA ID Number

18c. Signature of Alternate Facility (or Generator)	Month	Day	Year
---	-------	-----	------

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H132	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a	Signature	Month	Day	Year
Printed/Typed Name				

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121174WAS
---	---	--------------------------	---	--

5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
--	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
--	---

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	---

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	21464	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SFS 1. W12_Q346627_T#1749006 wt: 21636kg (47600lb) [1115079]

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.		
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM	Signature 	Month Day Year 10 31 08

16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: _____ Date leaving U.S.: _____
--	---

17. Transporter Acknowledgment of Receipt of Materials	Signature	Month Day Year
Transporter 1 Printed/Typed Name Chet Cuthbertson		10 31 08
Transporter 2 Printed/Typed Name	Signature	Month Day Year

18. Discrepancy	<input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection
18a. Discrepancy Indication Space	Manifest Reference Number: _____

18b. Alternate Facility (or Generator) CRA Inc.	U.S. EPA ID Number
---	--------------------

18c. Signature of Alternate Facility (or Generator)	Month Day Year
---	----------------

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a	Signature	Month Day Year
Printed/Typed Name 		10 31 08

GENERATOR
TRANSPORTER
DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)


Disposal Method: Landfilled

Disposal Date: 31-Oct-08

Manifest: 000 121174WAS

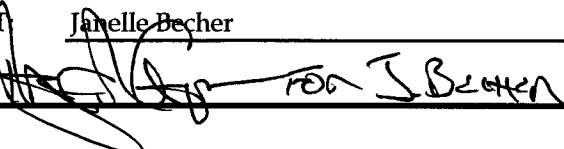
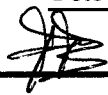
Net Kg: 21636

RECEIVED
NOV 07 2008
CRA Inc.


KENNETH S. PRICE, CHAIRMAN

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENACT

DATE: <u>10/31/08</u>		LOAD #: <u>1749006.</u>	
TIME IN: <u>8:24am.</u>	TIME OUT: <u>9:24am.</u>	MANIFEST #: <u>000121174WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	WORK AREA: <u>Parcel / Area: A0721-2.</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>		
TEMPERATURE (°F): <u>45</u>	WIND (mph) <input checked="" type="checkbox"/> 0-5 5-10 10-15 >15	<input checked="" type="checkbox"/> CLEAR CLOUDY RAIN SNOW	
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0721-2.</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>79520</u>	TARE: <u>32300</u>	NET: <u>47220</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1024-3</u>		
TRAILER #:	<u>1024-3A.</u>		
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
LINER INSTALLED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	OTHER:	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>		
SIGN: 	SIGN: 		

SCALE TICKET: 99394

78700 16 8:45 AM 10 31 08	GROSS
30860	TARE
	DUNNAGE
47840.	NET

VENDOR:	
MATERIAL: Soil.	
SHIPPER NO.: 1749007.	SIGNED IN:
LOT NO.: SES.	
CARRIER: US Bulk.	SIGNED OUT:
TRAILER: 1022A	
IN TRACTOR NUMBER: 1022.	OUT TRACTOR NUMBER:
REMARKS:	

L



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121175WAS				
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195					
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 (765)435-2704					U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	1. RD, UN3432 POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))			1	DT	21715	K		
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SFS . 1. W12_Q346627_T#1749007 [1115080]									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offorer's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 			Month Day Year 10 31 08	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Kevin Powers					Signature Kevin Powers			Month Day Year 10 31 08	
Transporter 2 Printed/Typed Name					Signature			Month Day Year	
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
Manifest Reference Number:									
18b. Alternate Facility (or Generator)					U.S. EPA ID Number				
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)					Month Day Year				
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name					Signature			Month Day Year	

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

GENERATOR	UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121175WAS			
	5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195				
TRANSPORTER	6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC				U.S. EPA ID Number PAD987347515				
	7. Transporter 2 Company Name				U.S. EPA ID Number				
	8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704				U.S. EPA ID Number IND980503890				
	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))			1	DT	21745	K		
	2.								
	3.								
	4.								
DESIGNATED FACILITY	14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SES 1. W12_Q346627_T#1749007 M. 21.555kg (47420kg) [1115080]								
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
	Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month Day Year 10 31 08		
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
	17. Transporter Acknowledgment of Receipt of Materials								
	Transporter 1 Printed/Typed Name Kevin Powers				Signature Kevin Powers		Month Day Year 10 31 08		
	Transporter 2 Printed/Typed Name				Signature		Month Day Year		
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input checked="" type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection RECEIVED Manifest Reference Number: _____								
	18b. Alternate Facility (or Generator) NOV 07 2008				U.S. EPA ID Number				
	Facility's Phone:				Month Day Year				
	18c. Signature of Alternate Facility (or Generator) CRA Inc.								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1.	2.			3.	4.				
	H132								
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Kevin Powers				Signature 		Month Day Year 10 31 08			



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 31-Oct-08

Manifest: 000 121175WAS

Net Kg: 21555

RECEIVED

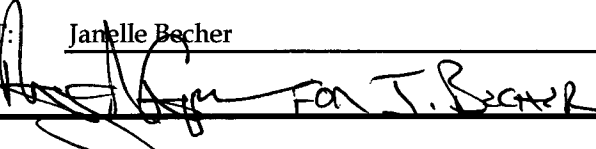
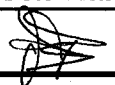
NOV 07 2008

CRA Inc.


KENNETH S. PRICE, CHAIRMAN

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENTACT

DATE: <u>10/31/08.</u>		LOAD #: <u>1749007</u>	
TIME IN: <u>8:45am.</u>	TIME OUT: <u>9:45am.</u>	MANIFEST #: <u>000121175WAS.</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	WORK AREA: <u>Parcel / Area: A0I21-2.</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>		
TEMPERATURE (°F): <u>45</u>	WIND (mph) <input checked="" type="checkbox"/> 0-5 5-10 10-15 >15	<input checked="" type="checkbox"/> CLEAR CLOUDY RAIN SNOW	
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0I21-2</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>78700</u>	TARE: <u>30860</u>	NET: <u>47840.</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1022</u>		
TRAILER #:	<u>1022A.</u>		
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
LINER INSTALLED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	OTHER:	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Becher</u>		PRINT: <u>Pete Bridcut</u>	
SIGN: 		SIGN: 	

SCALE TICKET: 99398

79360 1b 1:45 PM 10 31 08	GROSS
31180	TARE
	DUNNAGE
48200.	NET

VENDOR:	
MATERIAL: Soil.	
SHIPPER NO.: 1749008	SIGNED IN:
LOT NO.: SES.	
CARRIER: US Bulk.	SIGNED OUT:
TRAILER: 1024-2A.	
IN TRACTOR NUMBER: 1024-2.	OUT TRACTOR NUMBER:
REMARKS:	

L



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121176WAS					
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404			Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195							
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC				U.S. EPA ID Number PAD987347515						
7. Transporter 2 Company Name				U.S. EPA ID Number						
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 (765)435-2704				U.S. EPA ID Number IND980503890						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
				No.	Type					
	X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))		1	DT	21909	K			
		2.								
		3.								
	4.									
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SFS . 1. W12_Q346627_T#1749008 [1115081]										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offor's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month Day Year 10 31 08				
TRANSPORTER INT'L	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____									
	17. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name RALPH W...				Signature 		Month Day Year 10 31 08			
Transporter 2 Printed/Typed Name				Signature		Month Day Year				
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	Manifest Reference Number:									
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number					
	Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H132		2.		3.		4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name				Signature		Month Day Year				



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121176WAS				
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195					
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
X	1. RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C1))			1		DT	21909	K	
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SFS . 1. W12_Q346627_T#1749008 Net: 22136kg (48700lb) [1115081]									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 			Month Day Year 10 31 08	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name RALPH W SOW					Signature 			Month Day Year 10 31 08	
Transporter 2 Printed/Typed Name					Signature			Month Day Year	
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
RECEIVED									
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____									
18c. Signature of Alternate Facility (or Generator) CRA Inc. Month Day Year _____									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name DAN BARBA					Signature 			Month Day Year 10 31 08	

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 31-Oct-08

Manifest: 000 121176WAS

Net Kg: 22136

RECEIVED

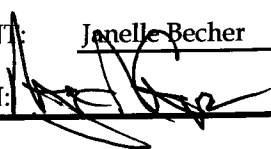

NOV 07 2008)

CRA Inc.


KENNETH S. PRICE, CHAIRMAN

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENTACT

DATE: <u>10/31/08</u>		LOAD #: <u>1749008</u>	
TIME IN: <u>12:45 pm</u>	TIME OUT: <u>1:45 pm</u>	MANIFEST #: <u>000 121176 WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	WORK AREA: <u>Parcel / Area: A0I21-2</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TEMPERATURE (°F): <u>70</u>	WIND (mph) 0-5 5-10 <input checked="" type="checkbox"/> 10-15 >15	<input checked="" type="checkbox"/> CLEAR CLOUDY RAIN SNOW	
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0I21-2</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>79380</u>	TARE: <u>31180</u>	NET: <u>48200</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1024-2</u>	_____	
TRAILER #:	<u>1024-2A</u>	_____	
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER:	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>		
SIGN: 	SIGN: 		

SCALE TICKET: 99347

<p>79360 1b 2:20 PM 10 31 08</p>	<p>GROSS</p>
<p>32300</p>	<p>TARE</p>
<p>DUNNAGE</p>	
<p>47060.</p>	<p>NET</p>

<p>VENDOR:</p>	
<p>MATERIAL: Soil</p>	
<p>SHIPPER NO.: 1749009.</p>	<p>SIGNED IN:</p>
<p>LOT NO.: SES.</p>	<p>SIGNED OUT:</p>
<p>CARRIER: US Bulk.</p>	<p>SIGNED OUT:</p>
<p>TRAILER: 1024-3A</p>	<p>SIGNED OUT:</p>
<p>IN TRACTOR NUMBER: 1024-3.</p>	<p>OUT TRACTOR NUMBER:</p>
<p>REMARKS:</p>	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121177WAS				
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195					
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
				No.	Type				
	X	1. RQ, UN3432 POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))			1	DT	21391	K	
		2.							
		3.							
	4.								
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/21/08 SFS 1. W12_Q346627_T#1749009 [1115083]									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 			Month Day Year 10 31 08	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Chet Cuthbertson					Signature 			Month Day Year 10 31 08	
Transporter 2 Printed/Typed Name					Signature			Month Day Year	
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____									
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name					Signature			Month Day Year	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800) 535-5053	4. Manifest Tracking Number 000121177WAS		
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812) 279-7404			Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195				
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC				U.S. EPA ID Number PAD987347515			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765) 435-2704				U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, POIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	21391	K		
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SES . 1. W12_0346627_T#1749009 wt. 21773kg (47960lb) [1115083]							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month Day Year 10 31 08	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Chet Cuthbertson Signature Chet Cuthbertson Month Day Year 10 31 08 Transporter 2 Printed/Typed Name Signature Month Day Year							
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input checked="" type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ 18b. Alternate Facility (or Generator) NOV 07 2008 U.S. EPA ID Number Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) CRA Inc. Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature Month Day Year 10 31 08							

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 31-Oct-08


Manifest: 000 121177WAS

Net Kg: 21773

RECEIVED

NOV 07 2008

CRA Inc.


KENNETH S. PRICE, CHAIRMAN

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENTACT

DATE: <u>10/31/08</u>		LOAD #: <u>1749009</u>	
TIME IN: <u>1:20 pm</u>	TIME OUT: <u>2:20 pm</u>	MANIFEST #: <u>000121177 WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	WORK AREA: <u>Parcel / Area: A0I21-2</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TEMPERATURE (°F): <u>70</u>	WIND (mph) 0-5 5-10 <input checked="" type="checkbox"/> 10-15 >15	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	

LOADING INFORMATION:		
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:
MATERIAL:	<u>Soil</u>	
LOCATION:	<u>Staging Pad/Stockpile: A0I21-2</u>	
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>	
LOAD WEIGHT (LBS):	GROSS: <u>79360</u> TARE: <u>32300</u> NET: <u>47060</u>	

TRANSPORTER INFORMATION:		
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>
TRUCK #:	<u>1024-3</u>	_____
TRAILER #:	<u>1024-3A</u>	_____

FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER:	

SEVENSON REPRESENTATIVE:	CRA REPRESENTATIVE:
PRINT: <u>Janelle Decher</u>	PRINT: <u>Rete Bridcut</u>
SIGN: <u>[Signature]</u> FOR J. Decher	SIGN: <u>[Signature]</u>

SCALE TICKET: 99445

76840 lb 2:39 PM 10 31 08	GROSS
30860	TARE
	DUNNAGE
45980	NET

VENDOR:	
MATERIAL: <i>Salt</i>	
SHIPPER NO.: <i>1749010</i>	SIGNED IN:
LOT NO.: <i>SES</i>	
CARRIER: <i>US Bulk.</i>	SIGNED OUT:
TRAILER: <i>1022 A.</i>	
IN TRACTOR NUMBER: <i>1022.</i>	OUT TRACTOR NUMBER:
REMARKS:	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121178WAS		
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404			Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195				
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC				U.S. EPA ID Number PAD987347515			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 (765)435-2704				U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	20900	K		
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/31/08 SFS . 1.W12_Q346627_T#1749010 [1115084]							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 	Month 10	Day 31	Year 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Kevin Powers				Signature Kevin Powers	Month 10	Day 31	Year 08
Transporter 2 Printed/Typed Name				Signature	Month	Day	Year
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.	2.	3.	4.				
H132							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature	Month	Day	Year

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121178WAS				
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404			Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195						
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC				U.S. EPA ID Number PAD987347515					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704				U.S. EPA ID Number IND980503890					
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
				No.	Type				
X	1. RD, UN3432 POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE (C))			1	DT	20900	K		
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SES 1. W12_Q346627_T#1749010 wt: 20900kg (45980lb) [1115084]									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offoror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 			Month Day Year 10 31 08		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Kevin Powers Signature Kevin Powers Month Day Year 10 31 08 Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____									
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection RECEIVED Manifest Reference Number: _____ U.S. EPA ID Number _____ 18b. Alternate Facility (or Generator) NOV 07 2008 U.S. EPA ID Number _____ Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) CRA Inc. Month Day Year _____									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name [Signature] Signature [Signature] Month Day Year 10 31 08									

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 31-Oct-08

Manifest: 000 121178WAS

Net Kg:
20900

RECEIVED

NOV 07 2008

CRA Inc.

KENNETH S. PRICE, CHAIRMAN

**Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana**

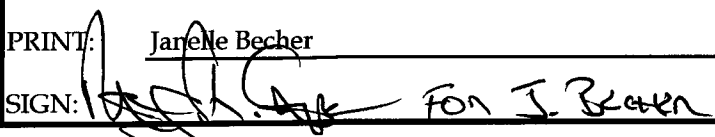
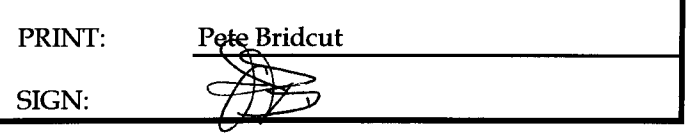
Distribution:
CRA
ENTACT

DATE: <u>10/31/08</u>		LOAD #: <u>1749010</u>	
TIME IN: <u>1:39 pm</u>	TIME OUT: <u>2:39 pm</u>	MANIFEST #: <u>000 121178 WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	WORK AREA: <u>Parcel / Area: A0I21-2</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TEMPERATURE (°F): <u>70</u>	WIND (mph) 0-5 <input type="checkbox"/> 5-10 <input checked="" type="checkbox"/> 10-15 <input type="checkbox"/> >15 <input type="checkbox"/>	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	

LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0I21-2</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>76840</u>	TARE: <u>30860</u>	NET: <u>45980</u>

TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1022</u>	_____	
TRAILER #:	<u>1022A</u>	_____	

FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER:	

SEVENSON REPRESENTATIVE:	CRA REPRESENTATIVE:
PRINT: <u>Jarlene Becher</u>	PRINT: <u>Pete Bridcut</u>
SIGN: 	SIGN: 

SCALE TICKET: 99446

79740 16 2:43 PM 10 31 08	GROSS
36540.	TARE
	DUNNAGE
49200.	NET

VENDOR:	
MATERIAL: Soil	
SHIPPER NO.: 174.9011	SIGNED IN:
LOT NO.: SES.	
CARRIER: US Bulk.	SIGNED OUT:
TRAILER: 1024-4A	
IN TRACTOR NUMBER: 1024-4.	OUT TRACTOR NUMBER:
REMARKS:	

L



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121179WAS						
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195							
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC		U.S. EPA ID Number PAD987347515		7. Transporter 2 Company Name U.S. EPA ID Number							
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 (765)435-2704				U.S. EPA ID Number IND980503890							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
X	1. RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))			1	DT	22364	K				
	2.										
	3.										
	4.										
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/31/08 SFS . 1.W12_Q346627_T#1749011 [1115086]											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month 10		Day 31		Year 08	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____											
17. Transporter Acknowledgment of Receipt of Materials											
Transporter 1 Printed/Typed Name Dave Bishop				Signature Dave Bishop		Month 10		Day 31		Year 08	
Transporter 2 Printed/Typed Name				Signature		Month		Day		Year	
18. Discrepancy											
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection											
18b. Alternate Facility (or Generator) U.S. EPA ID Number											
18c. Signature of Alternate Facility (or Generator) Month Day Year											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. H132		2.		3.		4.					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name				Signature		Month		Day		Year	

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121179WAS		
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195			
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	22364	K		
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SES 1. W12_Q346627_T#1749011 wt. 22545kg (49600lb) [1115086]							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 		Month Day Year 10 31 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Dave Bisping					Signature 		Month Day Year 10 31 08
Transporter 2 Printed/Typed Name					Signature		Month Day Year
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
RECEIVED				Manifest Reference Number:			
18b. Alternate Facility (or Generator) NOV 07 2008					U.S. EPA ID Number		
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) CRA Inc.					Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Dave Bisping					Signature 		Month Day Year 10 31 08

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 31-Oct-08

Manifest: 000 121179WAS

Net Kg:
22545

RECEIVED

NOV 07 2008

CRA Inc.


KENNETH S. PRICE, CHAIRMAN

**Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana**

Distribution:
CRA
ENTACT

DATE: <u>10/31/08</u>		LOAD #: <u>1749011</u>	
TIME IN: <u>1:43pm</u>	TIME OUT: <u>2:43pm</u>	MANIFEST #: <u>00012/179WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	WORK AREA: <u>Parcel / Area: A0I21-2.</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
TEMPERATURE (°F): <u>70</u>	WIND (mph) <u>0-5</u> <u>5-10</u> <input checked="" type="checkbox"/> <u>10-15</u> <u>>15</u>	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	

LOADING INFORMATION:

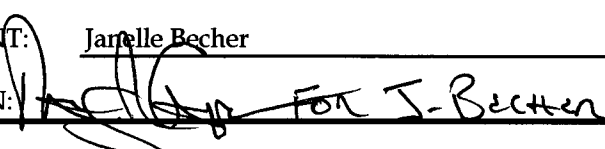
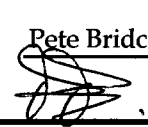
EQUIPMENT: <u>Sevenson - excavator</u>	NOTES:
MATERIAL: <u>Soil</u>	
LOCATION: <u>Staging Pad/Stockpile: A0I21-2</u>	
PERSONNEL: <u>Sevenson excavator operator/laborers</u>	
LOAD WEIGHT (LBS): GROSS: <u>79740</u> TARE: <u>30540</u> NET: <u>49200</u>	

TRANSPORTER INFORMATION:

TRUCKING COMPANY: <u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>
TRUCK #: <u>1024-4</u>	_____
TRAILER #: <u>1024-4A</u>	_____

FINAL INSPECTION:

DRIVER HAS PROPER PAPERWORK: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	LOAD COVERED / SECURED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
LINER INSTALLED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	TRUCK & TRAILER CLEAN: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
PROPER PLACARDS USED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	OTHER: _____

SEVENSON REPRESENTATIVE:	CRA REPRESENTATIVE:
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>
SIGN: 	SIGN: 

SCALE TICKET: 99455

<p>8:40 78880 16 11/10 AM 11 03 08 11/9/08</p>	GROSS
<p>31180.</p>	TARE
<p style="text-align: right;">DUNNAGE</p>	
<p>47700.</p>	NET

VENDOR:	
MATERIAL: Soil.	
SHIPPER NO.: 1749012.	SIGNED IN:
LOT NO.: SES.	SIGNED OUT:
CARRIER: US Bulk.	
TRAILER: 1024-2A.	
IN TRACTOR NUMBER: 1024-2.	OUT TRACTOR NUMBER:
REMARKS:	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121180WAS				
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195					
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 (765)435-2704					U.S. EPA ID Number IND980503890				
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
			No.	Type					
	X	RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	21682	K			
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/27/08 SFS . 1. W12_Q346627_T#1749012									
(1115087)									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offendor's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 		Month 11	Day 3	Year 08
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
	17. Transporter Acknowledgment of Receipt of Materials								
	Transporter 1 Printed/Typed Name Dave Bisping					Signature 		Month 11	Day 3
Transporter 2 Printed/Typed Name					Signature		Month	Day	Year
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
	Manifest Reference Number:								
	18b. Alternate Facility (or Generator)					U.S. EPA ID Number			
18c. Signature of Alternate Facility (or Generator)									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H132		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name					Signature		Month	Day	Year



UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121180WAS
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5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
--	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD98747515
--	--

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	---

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	RQ, UN3432 POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C1))	1	DT	21682	K			

14. Special Handling Instructions and Additional Information
1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/27/08 SES
1. W12_Q346627_T#1749012
wt. 21727kg (47800lb) **[1115087]**

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM	Signature 	Month Day Year 11 3 08
--	---------------	--------------------------------------

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name Dave Bisping	Signature 	Month Day Year 11 3 08
Transporter 2 Printed/Typed Name	Signature	Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

RECEIVED
NOV 1 3 2008

Manifest Reference Number: _____

18b. Alternate Facility (or Generator) **CRA Inc.** U.S. EPA ID Number _____

Facility's Phone: _____

18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. H132	2.	3.	4.
----------------	----	----	----

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name 	Signature 	Month Day Year 11 03 08
------------------------	---------------	---------------------------------------

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: 2195-12 PCB Remediation Waste (Soil)

Disposal Method: Landfilled

Disposal Date: 03-Nov-08

Manifest: 000121180WAS

Net Kg: 21,727

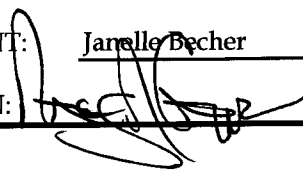

RECEIVED

NOV 13 2008

CRA Inc.

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENACT

DATE: <u>11/03/08</u>		LOAD #: <u>1749012</u>	
TIME IN: <u>7:40am</u>	TIME OUT: <u>8:40am</u>	MANIFEST #: <u>000121180 WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	WORK AREA: Parcel / Area: <u>A0721-2</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TEMPERATURE (°F): <u>46</u>	WIND (mph) <input checked="" type="checkbox"/> 0-5 <input type="checkbox"/> 5-10 <input type="checkbox"/> 10-15 <input type="checkbox"/> >15	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW	
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0721-2</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>78880</u>	TARE: <u>31180</u>	NET: <u>47700</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1024-2</u>		
TRAILER #:	<u>1024-2A</u>		
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
LINER INSTALLED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OTHER:	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>		
SIGN: 	SIGN: 		

SCALE TICKET: 99351

<p>9:15 79000 1b 11/15 AM 11 03 08</p>	<p>GROSS</p>
<p>11/18/08 30540.</p>	<p>TARE</p>
<p>DUNNAGE</p>	
<p>48460.</p>	<p>NET</p>

<p>VENDOR:</p>	
<p>MATERIAL: <i>Concrete Soil.</i></p>	
<p>SHIPPER NO.: <i>1749013.</i></p>	<p>SIGNED IN:</p>
<p>LOT NO.: <i>SES</i></p>	<p>SIGNED OUT:</p>
<p>CARRIER: <i>US Bulk</i></p>	<p>SIGNED OUT:</p>
<p>TRAILER: <i>1024-4A.</i></p>	<p>SIGNED OUT:</p>
<p>IN TRACTOR NUMBER: <i>1024-4</i></p>	<p>OUT TRACTOR NUMBER:</p>
<p>REMARKS:</p>	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121181WAS			
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195				
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC				U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704				U.S. EPA ID Number IND980503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	22027	K			
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/27/08 SFS . 1. W12_Q346627_T#1749013 [1115088]								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month 11	Day 3	Year 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____ Transporter signature (for exports only): _____								
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name TOM JEFFERS Signature Tom Jeffers Month 11 Day 3 Year 08 Transporter 2 Printed/Typed Name Signature Month Day Year								
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: _____ 18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H132 2. 3. 4.								
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature Month Day Year								

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121181WAS						
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195							
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PA0187347515						
7. Transporter 2 Company Name					U.S. EPA ID Number						
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704					U.S. EPA ID Number IND980503890						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
X	1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C1))			1	DT	22027	K				
	2.										
	3.										
	4.										
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/27/08 SES 1. W12_Q346627_T#1749013 wt. 22045kg (48500lb) [1115088]											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offorer's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 		Month Day Year 11 3 08					
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____											
17. Transporter Acknowledgment of Receipt of Materials											
Transporter 1 Printed/Typed Name TOM JEFFERS				Signature 		Month Day Year 11 3 08					
Transporter 2 Printed/Typed Name				Signature		Month Day Year					
18. Discrepancy											
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input checked="" type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection RECEIVED											
18b. Alternate Facility (or Generator) NOV 13 2008 Manifest Reference Number: _____ U.S. EPA ID Number _____											
18c. Signature of Alternate Facility (or Generator) CRA Inc. Month Day Year _____											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. H132			2.			3.			4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name 				Signature 		Month Day Year 11 03 08					

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR:

General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER:

IND006036099

Wastestream:

2195-12 PCB Remediation Waste (Soil)

Disposal Method:

Landfilled

Disposal Date:

03-Nov-08

Manifest:

000121181WAS

Net Kg:

22,045

RECEIVED

NOV 13 2008

CRA Inc.

**Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana**

Distribution:
CRA
ENTACT

DATE: <u>11/3/08</u>		LOAD #: <u>1749013</u>	
TIME IN: <u>8:15am.</u>	TIME OUT: <u>9:15am.</u>	MANIFEST #: <u>000121181WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	WORK AREA: <u>Parcel / Area: A0J21-2.</u>	
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>		
TEMPERATURE (°F): <u>46</u>	WIND (mph) <input checked="" type="checkbox"/> 0-5 5-10 10-15 >15	<input checked="" type="checkbox"/> CLEAR CLOUDY RAIN SNOW	
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0J21-2.</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>79000</u>	TARE: <u>30540</u>	NET: <u>48460.</u>
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1024-4</u>	_____	
TRAILER #:	<u>1024-4A.</u>	_____	
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
LINER INSTALLED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	OTHER: _____	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>		
SIGN: <u>[Signature]</u>	SIGN: <u>[Signature]</u>		

SCALE TICKET: 99490

1:47 79420 1b 2:47 PM 11 03 08 11/2/08	GROSS
31180	TARE
	DUNNAGE
48240	NET

VENDOR:	
MATERIAL: Soil.	
SHIPPER NO.: 1749014.	SIGNED IN:
LOT NO.: SES	
CARRIER: US Bulk.	SIGNED OUT:
TRAILER: 1024-2A.	
IN TRACTOR NUMBER: 1024-2	OUT TRACTOR NUMBER:
REMARKS:	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121182WAS		
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404			Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195				
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC				U.S. EPA ID Number PAD987347515			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 (765)435-2704				U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	21927	K		
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SFS . 1. W12_Q346627_T#1749014 (1115089)							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM				Signature 	Month 11	Day 3	Year 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Dave Basing				Signature 	Month 11	Day 3	Year 08
Transporter 2 Printed/Typed Name				Signature	Month	Day	Year
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)				Month	Day	Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.	2.	3.	4.				
	H132						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature	Month	Day	Year

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800) 535-5053	4. Manifest Tracking Number 000121182WAS		
	5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812) 279-7404		Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195			
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC			U.S. EPA ID Number PAD987347515			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765) 435-2704			U.S. EPA ID Number IND980503890			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	21927	K	
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SES 1. W12_Q346627_T#1749014 amt: 22082kg (98580lb) [1115089]						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offorer's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM			Signature 		Month Day Year 11 3 08	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Dave Bisping			Signature 		Month Day Year 11 3 08	
Transporter 2 Printed/Typed Name			Signature		Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection RECEIVED Manifest Reference Number:						
18b. Alternate Facility (or Generator) Facility's Phone: 18c. Signature of Alternate Facility (or Generator) CRA Inc.			U.S. EPA ID Number Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H132		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name 			Signature 		Month Day Year 11 03 08	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR:

General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER:

IND006036099

Wastestream:

2195-12 PCB Remediation Waste (Soil)

Disposal Method:

Landfilled

Disposal Date:

03-Nov-08

Manifest:

000121182WAS

Net Kg:

22,082

RECEIVED

NOV 13 2008

CRA Inc.

KENNETH S. PRICE, CHAIRMAN

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENTACT

DATE: <u>11/3/08</u>	LOAD #: <u>1749014</u>
TIME IN: <u>12:47pm</u> TIME OUT: <u>1:47pm</u>	MANIFEST #: <u>000121182WAS</u>
WASTE TYPE	WASTE PROFILE NO: <u>2195-12</u>
SOIL < 50 ppm PCBs YES <input checked="" type="radio"/> NO	WASTE DESCRIPTION: Soil >50 ppm PCBs
SOIL > 50 ppm PCBs <input checked="" type="radio"/> YES NO	WORK AREA: Parcel / Area: <u>A0721-2</u>
TRASH / DEBRIS YES <input checked="" type="radio"/> NO	
OTHER: <input checked="" type="radio"/> YES NO	

TEMPERATURE (°F): <u>71</u>	WIND (mph) 0-5 <input checked="" type="radio"/> 5-10 10-15 >15	<input checked="" type="radio"/> CLEAR CLOUDY RAIN SNOW
-----------------------------	---	--

LOADING INFORMATION:

EQUIPMENT: <u>Sevenson - excavator</u>	NOTES:
MATERIAL: <u>Soil</u>	
LOCATION: <u>Staging Pad/Stockpile: A0721-2.</u>	
PERSONNEL: <u>Sevenson excavator operator/laborers</u>	
LOAD WEIGHT (LBS): GROSS: <u>79420.</u> TARE: <u>31180</u> NET: <u>48240.</u>	

TRANSPORTER INFORMATION:

TRUCKING COMPANY: <u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>
TRUCK #: <u>1024-2.</u>	_____
TRAILER #: <u>1024-2A.</u>	_____

FINAL INSPECTION:

DRIVER HAS PROPER PAPERWORK: <input checked="" type="radio"/> YES NO	LOAD COVERED / SECURED: <input checked="" type="radio"/> YES NO
LINER INSTALLED: <input checked="" type="radio"/> YES NO	TRUCK & TRAILER CLEAN: <input checked="" type="radio"/> YES NO
PROPER PLACARDS USED: <input checked="" type="radio"/> YES NO	OTHER: _____

SEVENSON REPRESENTATIVE:	CRA REPRESENTATIVE:
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>
SIGN: <u>FOR J. BECHER</u>	SIGN:

SCALE TICKET: 99371

<p>78000 lb 11:17 PM 11 03 08 3:47 11/3/08 B.</p>	<p>GROSS</p>
<p>32300.</p>	<p>TARE</p>
<p style="text-align: right;">DUNNAGE</p>	
<p>45700.</p>	<p>NET</p>

<p>VENDOR:</p>	
<p>MATERIAL: <i>Sol.</i></p>	
<p>SHIPPER NO.: <i>1749015</i></p>	<p>SIGNED IN:</p>
<p>LOT NO.: <i>SFS</i></p>	<p>SIGNED OUT:</p>
<p>CARRIER: <i>US Bulk.</i></p>	<p>SIGNED OUT:</p>
<p>TRAILER: <i>1024-3A</i></p>	<p>SIGNED OUT:</p>
<p>IN TRACTOR NUMBER: <i>1024-3</i></p>	<p>OUT TRACTOR NUMBER:</p>
<p>REMARKS:</p>	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121183WAS				
5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404				Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195					
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC					U.S. EPA ID Number PAD987347515				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 (765)435-2704					U.S. EPA ID Number IND990503890				
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
				No.	Type				
X	1. RQ, UN3432 POLYCHLORINATED BIPHENYLS SOLID, 9, POIII, (PCB REMEDIATION WASTE 761.61 (C))			1	DT	11368 2318 20773	K		
	2.								
	3.								
	4.								
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SFS . 1.W12_Q346627_T#1749015 [1115090]									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM					Signature 		Month 11	Day 3	Year 08
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Chet Curtis					Signature 		Month 11	Day 3	Year 08
Transporter 2 Printed/Typed Name					Signature		Month	Day	Year
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
Manifest Reference Number:									
18b. Alternate Facility (or Generator)					U.S. EPA ID Number				
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1.	2.	3.	4.						
H132									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name					Signature		Month	Day	Year

GENERATOR

INTL

TRANSPORTER

DESIGNATED FACILITY



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121183WAS
---	---	--------------------------	---	--

5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
--	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
--	---

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	---

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RG, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	11368 19318 20773	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SES 1. W12_Q346627_T#1749015

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.			
Generator's/Offoror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM	Signature 	Month 11	Day Year 23 08

16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials			
Transporter 1 Printed/Typed Name Chet Cushman	Signature 	Month 11	Day Year 3 08
Transporter 2 Printed/Typed Name	Signature	Month	Day Year

18. Discrepancy			
18a. Discrepancy Indication Space	<input type="checkbox"/> Quantity	<input checked="" type="checkbox"/> Type	<input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection
RECEIVED			
Manifest Reference Number: _____			

18b. Alternate Facility (or Generator) NOV 13 2008 CRA Inc.	U.S. EPA ID Number
Facility's Phone:	
18c. Signature of Alternate Facility (or Generator)	Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H132	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a			
Printed/Typed Name Cary	Signature 	Month 11	Day Year 03 08

DESIGNATED FACILITY TO GENERATOR

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: PCB Contaminaged Soil

Disposal Method: Landfilled

Disposal Date: 03-Nov-08

Manifest: 000121183WAS

Net Kg: 11/14/08
~~20,773~~
20718

RECEIVED
NOV 13 2008

CRA Inc.

KENNETH S. PRICE, CHAIRMAN

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENTACT

DATE: <u>11/3/08</u>	LOAD #: <u>1749015</u>
TIME IN: <u>2:47 pm.</u> TIME OUT: <u>3:47 pm.</u>	MANIFEST #: <u>000 121183 WAS</u>
WASTE TYPE	WASTE PROFILE NO: <u>2195-12</u>
SOIL < 50 ppm PCBs YES <input checked="" type="checkbox"/> NO	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>
SOIL > 50 ppm PCBs <input checked="" type="checkbox"/> YES NO	WORK AREA: Parcel / Area: <u>AOI21-2</u>
TRASH / DEBRIS YES <input checked="" type="checkbox"/> NO	
OTHER: <input checked="" type="checkbox"/> YES NO	

TEMPERATURE (°F): <u>71</u>	WIND (mph) 0-5 <input checked="" type="checkbox"/> 5-10 10-15 >15	<input checked="" type="checkbox"/> CLEAR CLOUDY RAIN SNOW
-----------------------------	--	---

LOADING INFORMATION:

EQUIPMENT: <u>Sevenson - excavator</u>	NOTES:
MATERIAL: <u>Soil</u>	
LOCATION: <u>Staging Pad/Stockpile: AOI21-2</u>	
PERSONNEL: <u>Sevenson excavator operator/laborers</u>	
LOAD WEIGHT (LBS): GROSS: <u>78000</u> TARE: <u>32300</u> NET: <u>45700</u>	

TRANSPORTER INFORMATION:

TRUCKING COMPANY: <u>U.S. Bulk Transport, Inc.</u> <u>Beelman Truck Co.</u>
TRUCK #: <u>1024-3</u>
TRAILER #: <u>1024-3A</u>

FINAL INSPECTION:

DRIVER HAS PROPER PAPERWORK: <input checked="" type="checkbox"/> YES NO	LOAD COVERED / SECURED: <input checked="" type="checkbox"/> YES NO
LINER INSTALLED: <input checked="" type="checkbox"/> YES NO	TRUCK & TRAILER CLEAN: <input checked="" type="checkbox"/> YES NO
PROPER PLACARDS USED: <input checked="" type="checkbox"/> YES NO	OTHER:

SEVENSON REPRESENTATIVE:	CRA REPRESENTATIVE:
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>
SIGN: <u>For J. Becher</u>	SIGN:

SCALE TICKET: 99370

<p>78300 lb 2:25 PM 11 03 08 2:25 11/30/08</p>	GROSS
<p>30540.</p>	TARE
<p>DUNNAGE</p>	
<p>47760.</p>	NET

VENDOR:	
MATERIAL: Soil.	
SHIPPER NO.: 1749016.	SIGNED IN:
LOT NO.: SES	
CARRIER: US Bulk	SIGNED OUT:
TRAILER: 1024-4A.	
IN TRACTOR NUMBER: 1024-4	OUT TRACTOR NUMBER:
REMARKS:	

L



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099		2. Page 1 of 1		3. Emergency Response Phone (800)535-5053		4. Manifest Tracking Number 000121184WAS			
		5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 (812)279-7404						Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195			
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC								U.S. EPA ID Number PAD987347515			
7. Transporter 2 Company Name								U.S. EPA ID Number			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 (765)435-2704								U.S. EPA ID Number IND980503890			
9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
						No. Type					
X		1. RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))				1 DT		21709	K		
		2.									
		3.									
		4.									
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/21/08 SFS 1. W12_0346627_T#1749016											
[1115091]											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offoror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM								Signature 		Month Day Year 11 3 08	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____											
17. Transporter Acknowledgment of Receipt of Materials											
Transporter 1 Printed/Typed Name Tom JEFFERS								Signature 		Month Day Year 11 3 08	
Transporter 2 Printed/Typed Name								Signature		Month Day Year	
18. Discrepancy											
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection											
Manifest Reference Number: _____											
18b. Alternate Facility (or Generator)								U.S. EPA ID Number			
Facility's Phone: _____											
18c. Signature of Alternate Facility (or Generator)								Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. H132		2.		3.		4.					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name								Signature		Month Day Year	



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number IND006036099		2. Page 1 of 1		3. Emergency Response Phone (800) 535-5053		4. Manifest Tracking Number 000121184WAS			
		5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404						Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195			
6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC								U.S. EPA ID Number PAD987347515			
7. Transporter 2 Company Name								U.S. EPA ID Number			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704								U.S. EPA ID Number IND980503890			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		1. RQ, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))				No.	Type				
		2.									
		3.									
		4.									
14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SES 1. W12_Q346627_T#1749016 WJ (4798016) 218096 [1115091]											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offoror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM						Signature 			Month	Day	Year
									11	3	08
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____										
	17. Transporter Acknowledgment of Receipt of Materials										
	Transporter 1 Printed/Typed Name Tom JEFFERS						Signature 			Month	Day
									11	3	08
18. Discrepancy											
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection											
RECEIVED											
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____											
NOV 13 2008											
18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____											
CRA Inc.											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. H132		2.		3.		4.					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name 						Signature 			Month	Day	Year
									11	03	08



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR:

General Motors - Powertrain Division
105 GM Drive
Bedford IN 47421

EPA ID NUMBER:

IND006036099

Wastestream:

2195-12 PCB Remediation Waste (Soil)

Disposal Method:

Landfilled

Disposal Date:

03-Nov-08

Manifest:

000121184WAS

Net Kg:

21,809

RECEIVED

NOV 13 2008

CRA Inc.

KENNETH S. PRICE, CHAIRMAN

**Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana**

Distribution:
CRA
ENTACT

DATE: <u>11/3/08</u>		LOAD #: <u>1749016.</u>
TIME IN: <u>1:25 pm.</u>	TIME OUT: <u>2:25 pm.</u>	MANIFEST #: <u>000121184WAS</u>
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	WORK AREA: <u>Parcel / Area: A0221-2.</u>
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
OTHER:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	

TEMPERATURE (°F): <u>71</u>	WIND (mph) 0-5 <input checked="" type="checkbox"/> 5-10 <input type="checkbox"/> 10-15 <input type="checkbox"/> >15 <input type="checkbox"/>	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW
-----------------------------	--	---

LOADING INFORMATION:

EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0221-2.</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>78300</u>	TARE: <u>30540</u>	NET: <u>47760.</u>

TRANSPORTER INFORMATION:

TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>
TRUCK #:	<u>1024-4</u>	_____
TRAILER #:	<u>1024-4A.</u>	_____

FINAL INSPECTION:

DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
LINER INSTALLED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	OTHER:	_____

SEVENSON REPRESENTATIVE:

CRA REPRESENTATIVE:

PRINT: Janelle Becher

PRINT: Pete Bridcut

SIGN:  FOR J. BECHER

SIGN: 

GM POWERTRAIN, Bedford Plant, 105 GM Drive, Bedford, Indiana 47421

SCALE TICKET: 99491

50500 lb 11:55 AM 11 04 08 10:55 11/4/08 BA	GROSS
30540	TARE
	DUNNAGE
19960.	NET

VENDOR:	
MATERIAL: Soil	
SHIPPER NO.: 1749017	SIGNED IN:
LOT NO.: JS	
CARRIER: US Bulk	SIGNED OUT:
TRAILER: 1024-4A.	
IN TRACTOR NUMBER: 1024-4.	OUT TRACTOR NUMBER:
REMARKS:	



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121185WAS
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5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
--	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
---	------------------------------------

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	------------------------------------

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C))	1	DT	9073	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information 1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/21/08 SFS . 1. W12_Q346627_T#1749017 [11150923]

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.			
Generator's/Offorer's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM	Signature 	Month 11	Day Year 4 08

16. International Shipments Transporter signature (for exports only):	<input type="checkbox"/> Import to U.S.	<input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
--	---	---	---

17. Transporter Acknowledgment of Receipt of Materials			
Transporter 1 Printed/Typed Name Tom JEFFERS	Signature Tom Jeffers	Month 11	Day Year 4 08
Transporter 2 Printed/Typed Name	Signature	Month	Day Year

18. Discrepancy					
18a. Discrepancy Indication Space	<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection
Manifest Reference Number:					

18b. Alternate Facility (or Generator)	U.S. EPA ID Number
Facility's Phone:	

18c. Signature of Alternate Facility (or Generator)	Month	Day	Year
---	-------	-----	------

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H132	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a			
Printed/Typed Name	Signature	Month	Day Year



ase print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number IND006036099	2. Page 1 of 1	3. Emergency Response Phone (800)535-5053	4. Manifest Tracking Number 000121185WAS
---	---	--------------------------	---	--

5. Generator's Name and Mailing Address GENERAL MOTORS CORP. / JEFF NICHOLS (CRA) P.O. BOX 1268 BEDFORD, IN 47421 Generator's Phone: (812)279-7404	Generator's Site Address (if different than mailing address) GENERAL MOTORS CORPORATION / TIM RIENKS 105 GM DRIVE BEDFORD, IN 47421 GEN: 2195
--	---

6. Transporter 1 Company Name U.S. BULK TRANSPORT, INC	U.S. EPA ID Number PAD987347515
--	---

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES LLC 4370 W. COUNTY ROAD 1275 N. ROACHDALE, IN 46172 Facility's Phone: (765)435-2704	U.S. EPA ID Number IND980503890
--	---

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RD, UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PGIII, (PCB REMEDIATION WASTE 761.61 (C1))	1	DT	9073	K			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. ERG# 171 1. EARLIEST DATE OF REMOVAL FROM SERVICE FOR DISPOSAL: 10/24/08 SES
1. W12_Q346627_T#1749017
wt 8882kg (19540lb) [1115092]

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name JEFF NICHOLS OF CRA, AGENT FOR GM	Signature 	Month 11	Day 4	Year 08
--	---------------	--------------------	-----------------	-------------------

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

Transporter signature (for exports only): _____

17. Transporter Acknowledgment of Receipt of Materials	Signature	Month	Day	Year
Transporter 1 Printed/Typed Name Tom JEFFERS		11	4	08
Transporter 2 Printed/Typed Name	Signature			

18. Discrepancy

18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

RECEIVED

Manifest Reference Number: _____

18b. Alternate Facility (or Generator) NOV 13 2008	U.S. EPA ID Number
Facility's Phone:	
18c. Signature of Alternate Facility (or Generator) CRA Inc.	Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H132	2.	3.	4.

20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a	Signature	Month	Day	Year
Printed/Typed Name 		11	04	08



7901 W. Morris St.
Indianapolis, IN 46231
(317) 243-0811
IND093219012

4132 Pompano Road
Charlotte, NC 28216
(704) 392-6276
NCD121700777

15330 Canal Bank Road, N.E.
Lemont, IL 60439
(630) 739-1151
ILD085349264

8523 NE 38th Street
Kansas City, MO 64161
(816) 453-4321
MOD981505555

4370 W. Co. Rd. 1275N
Roachdale, IN 46172
(765) 435-2704
IND980503890

5400 N. Detroit Ave.
Toledo, OH 43611
(419) 476-0942
OHD005045992

54 Avenue D
Williston, VT 05495
(802) 860-1200
VTD982766537

5122 East Storey Rd.
Coolidge, AZ 85228
(520) 723-4167
AZD081705402

4370 W. Co. Rd 1275 N
Roachdale, IN 46172
(765) 435-2704
Subtitle D Landfill

CERTIFICATE OF TREATMENT AND DISPOSAL

HERITAGE ENVIRONMENTAL SERVICES, LLC CERTIFIES AND ASSURES TO OUR CUSTOMERS THAT THE TRANSACTION DESCRIBED BELOW, INCLUDING TREATMENT AND/OR STORAGE AND/OR RECLAMATION AND/OR DISPOSAL HAS BEEN HANDLED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

Heritage Environmental Services, LLC certifies that the transaction described by the identifying information below has been conducted as described. 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.

GENERATOR: General Motors
105 GM Drive
Bedford IN 47421

EPA ID NUMBER: IND006036099

Wastestream: PCB Contaminaged Soil

Disposal Method: Landfilled

Disposal Date: 04-Nov-08

Manifest: 000121185WAS

Net Kg: 11/14/08

~~9,073~~
8882

RECEIVED

NOV 13 2008

CRA Inc.

KENNETH S. PRICE, CHAIRMAN

Truck Inspection/Loading Report
GMPT Bedford Plant
Bedford, Indiana

Distribution:
 CRA
 ENACT

DATE: <u>11/4/08</u>		LOAD #: <u>1749017</u>	
TIME IN: <u>9:55am.</u>	TIME OUT: <u>10:55am.</u>	MANIFEST #: <u>00012185WAS</u>	
WASTE TYPE		WASTE PROFILE NO: <u>2195-12</u>	WASTE DESCRIPTION: <u>Soil >50 ppm PCBs</u>
SOIL < 50 ppm PCBs	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WORK AREA: Parcel / Area: <u>A0FZ1-2</u>	
SOIL > 50 ppm PCBs	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>		
TRASH / DEBRIS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
OTHER:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>		
TEMPERATURE (°F): <u>63</u>	WIND (mph) <input checked="" type="checkbox"/> 0-5 5-10 10-15 >15	<input checked="" type="checkbox"/> CLEAR	<input type="checkbox"/> CLOUDY <input type="checkbox"/> RAIN <input type="checkbox"/> SNOW
LOADING INFORMATION:			
EQUIPMENT:	<u>Sevenson - excavator</u>	NOTES:	
MATERIAL:	<u>Soil</u>		
LOCATION:	<u>Staging Pad/Stockpile: A0FZ1-2</u>		
PERSONNEL:	<u>Sevenson excavator operator/laborers</u>		
LOAD WEIGHT (LBS):	GROSS: <u>50500</u>	TARE: <u>30540</u>	NET: <u>19619960</u> ^{11/4/08}
TRANSPORTER INFORMATION:			
TRUCKING COMPANY:	<u>U.S. Bulk Transport, Inc.</u>	<u>Beelman Truck Co.</u>	
TRUCK #:	<u>1024-4</u>	_____	
TRAILER #:	<u>1024-4A</u>	_____	
FINAL INSPECTION:			
DRIVER HAS PROPER PAPERWORK:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	LOAD COVERED / SECURED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
LINER INSTALLED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	TRUCK & TRAILER CLEAN:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>
PROPER PLACARDS USED:	<input checked="" type="checkbox"/> YES NO <input type="checkbox"/>	OTHER: _____	
SEVENSON REPRESENTATIVE:		CRA REPRESENTATIVE:	
PRINT: <u>Janelle Becher</u>	PRINT: <u>Pete Bridcut</u>		
SIGN: <u>[Signature]</u> FOR J. BECHER	SIGN: <u>[Signature]</u>		

Appendix I

Soil Geotechnical Results

- I.1 Clay
- I.2 Granular Fill
- I.3 Asphalt

Appendix I.1

Clay



Professional Service Industries, Inc.
5362 West 78th Street
Indianapolis, IN 46268

Phone: (317) 876-7723
Fax: (317) 876-8155

Field Density Report

Report No: FDR:0014637-26
Issue No: 1

Client: SEVENSON ENVIRONMENTAL SERVICE
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

CC: DAN SEKANOVICH
SHANE REYNOLDS

Project: GM BEDFORD - 2011 - SEVENSON
BEDFORD, IN

These test results apply only to the specific locations and materials noted and may not represent any other locations or elevations. This report may not be reproduced, except in full, without written permission by Professional Service Industries, Inc.

Alex Stanley

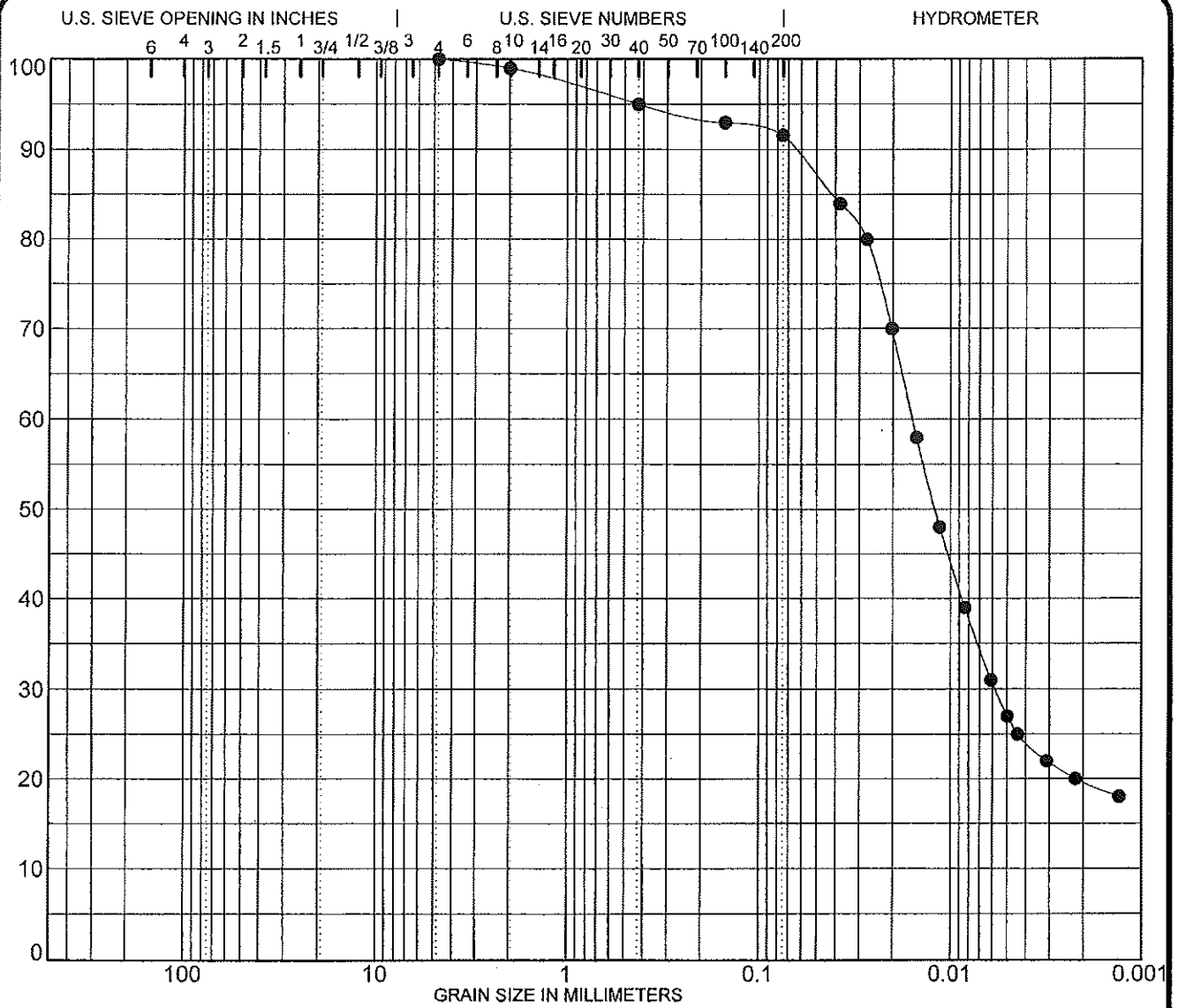
Approved Signatory: Alex Stanley (Department Manager)
Date of Issue: 8/2/2011

Testing Details							
Tested By:	Michael Stockwell						
Field Methods:	ASTM D 6938						
Lab Methods:	ASTM D698						
Date Tested:	7/29/2011						
Gauge Type:	Troxler						
Model Number:	3430	Serial Number:	39209				
Test Mode:	Direct Transmission	Standard Count:	Density: 2668				
Standard Count:	Moisture: 642						

Test Results							
Test No	Material	Depth of Test (in)	Wet Density (lb/ft³)	Moisture Content (%)	Dry Density (lb/ft³)	Relative Compaction (%)	Limit
1	Reddish Brown Silty Clay, tr Sand	4	126.9	19.4	106.3	100.1	≥95
2	Reddish Brown Silty Clay, tr Sand	4	126.5	21.8	103.9	97.8	≥95
3	Reddish Brown Silty Clay, tr Sand	4	126.1	20.8	104.4	98.3	≥95

Location and Compaction					
Test No	Location	MDD Soil ID	MDD Method	MDD (lb/ft³)	OMC (%)
General Location: West Plant					
1	CTA-10: N1323577.63/E3123543.57, Elev: 723.99' ASL	External	ASTM D698	106.2	18.8
2	CTA-11: N1323639.59/E3123487.56, Elev: 723.53' ASL	External	ASTM D698	106.2	18.8
3	CTA-12: N1323523.69/E3123600.37, Elev: 724.09' ASL	External	ASTM D698	106.2	18.8

Comments



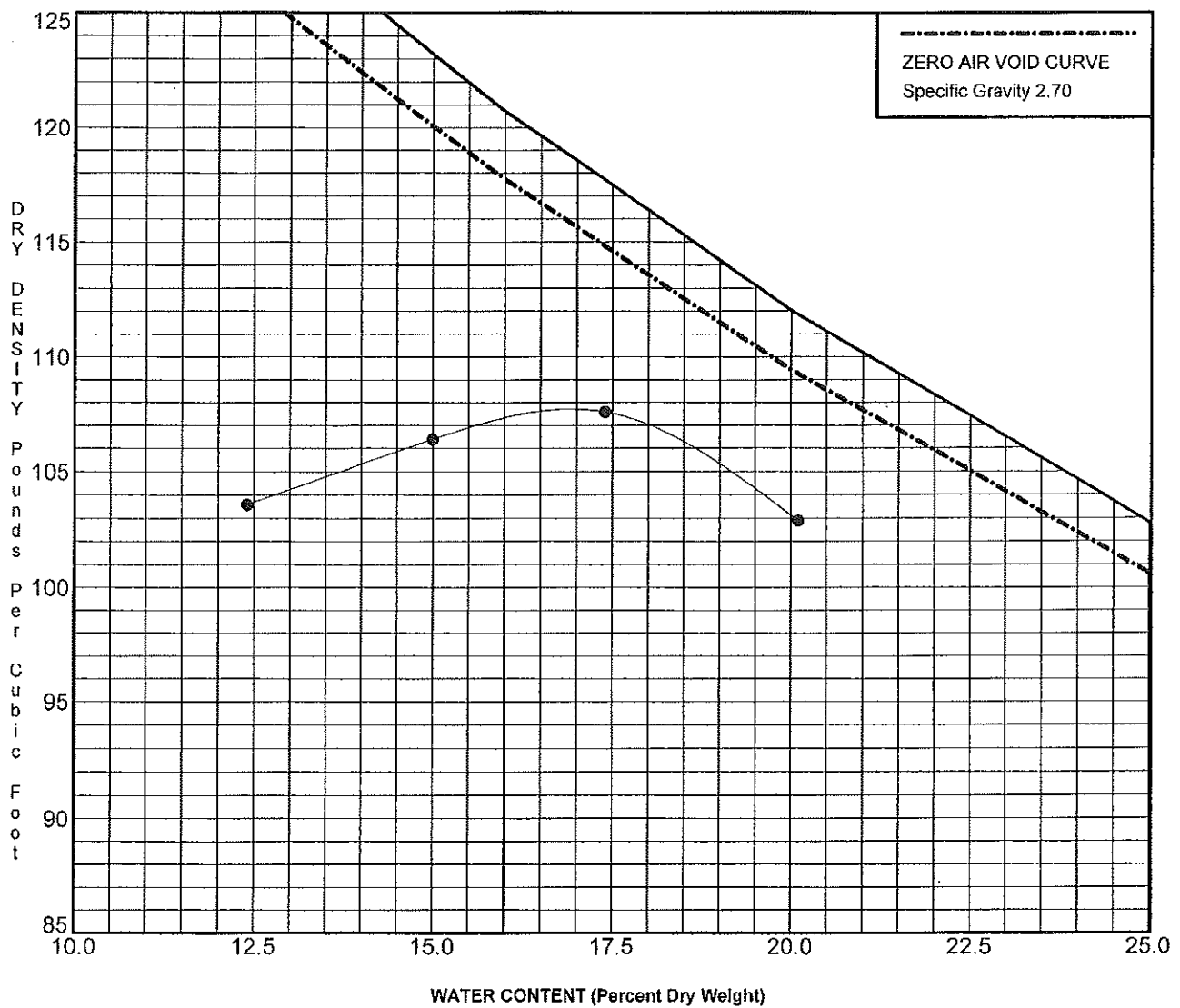
COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SPECIMEN IDENTIFICATION		SIEVE	% PASS	SOIL CLASSIFICATION			
S-INGRAM-110110-SB-37503		3 inch	100	Brown silty CLAY, trace sand (CL)			
		2	100				
		1 1/2	100				
		1	100	%GRAVEL	%SAND	%SILT	%CLAY
PERMEABILITY		3/4	100	0	8	65	27
GRADIENT (psi)	27.1	3/8	100				
EFFECTIVE STRESS (psi)	3.0	# 4	100	%MC	LL	PL	PI
CELL PRESSURE (psi)	48.0	# 10	99	10.1	33	18	15
K (cm/sec)	5.6X10-8	# 40	95				
		# 100	93				
		# 200	92				

PROJECT GM - Bedford, Soil Testing JOB NO. L - 74,807
 LOCATION Bedford, Indiana DATE November 16, 2010
 37503

SOIL DATA SHEET
 Testing Service Corporation
 Carol Stream, IL 60188

SOLENOI 74807.GPJ TSC ALL GDT 11/17/10



SPECIMEN IDENTIFICATION	
S-INGRAM-110110-SB-37503	
MOISTURE/DENSITY RELATIONSHIP	
X	Standard ASTM D698/AASHTO T99
	Modified ASTM D1557/AASHTO T180
Maximum Dry Density (PCF)	107.8
Optimum Water Content (%)	16.9

SOIL CLASSIFICATION	
Brown silty CLAY, trace sand (CL)	
NOTES :	

PROJECT	<u>GM - Bedford, Soil Testing</u>	JOB NO.	<u>L - 74,807</u>
LOCATION	<u>Bedford, Indiana</u>	DATE	<u>November 16, 2010</u>

MOISTURE-DENSITY RELATIONSHIP

Testing Service Corporation
Carol Stream, IL 60188

PROJECTORS 74807.GPJ TSC ALL.GDT 11/16/10



Professional Service Industries, Inc.
5362 West 78th Street
Indianapolis, IN 46268

Phone: (317) 876-7723
Fax: (317) 876-8155

Field Density Report

Report No: FDR:0014637-22

Issue No: 1

Client: SEVENSON ENVIRONMENTAL SERVICE
2749 LOCKPORT ROAD
NIAGRA FALLS, NY 14302

CC: DAN SEKANOVICH
SHANE REYNOLDS

These test results apply only to the specific locations and materials noted and may not represent any other locations or elevations. This report may not be reproduced, except in full, without written permission by Professional Service Industries, Inc.

Approved Signatory: Alex Stanley (Department Manager)

Date of Issue: 7/20/2011

Project: GM BEDFORD - 2011 - SEVENSON
BEDFORD, IN

Testing Details

Tested By: Michael Stockwell
Field Methods: ASTM D 6938
Lab Methods: ASTM D698
Date Tested: 7/15/2011
Gauge Type: Troxler
Model Number: 3430 **Serial Number:** 39204
Test Mode: Direct Transmission **Standard Count: Density:** 2548
Standard Count: Moisture: 686

Test Results

Test No	Material	Depth of Test (in)	Wet Density (lb/ft³)	Moisture Content (%)	Dry Density (lb/ft³)	Relative Compaction (%)	Limit
1	BR Si Clay Tr Sa	6	123.7	19.1	103.9	96.3	≥95
2	BR Si Clay Tr Sa	6	123.1	19.2	103.3	95.8	≥95
3	BR Si Clay Tr Sa	6	121.5	18.6	102.4	95.0	≥95

Location and Compaction

Test No	Location	MDD Soil ID	MDD Method	MDD (lb/ft³)	OMC (%)
General Location: Large Mound					
1	N: 1323557.96 / E: 3123604.60, Elevation: 723.11' ASL	External	ASTM D698	107.8	16.9
2	N: 1323613.14 / E: 3123570.69, Elevation: 722.77' ASL	External	ASTM D698	107.8	16.9
3	N: 1323587.83 / E: 3123630.01, Elevation: 719.42' ASL	External	ASTM D698	107.8	16.9

Comments



Professional Service Industries, Inc.
5362 West 78th Street
Indianapolis, IN 46268

Phone: (317) 876-7723
Fax: (317) 876-8155

Field Density Report

Report No: FDR:0014637-23

Issue No: 1

Client: SEVENSON ENVIRONMENTAL SERVICE
2749 LOCKPORT ROAD
NIAGRA FALLS, NY 14302

CC: DAN SEKANOVICH
SHANE REYNOLDS

Project: GM BEDFORD - 2011 - SEVENSON
BEDFORD, IN

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Approved Signatory: Alex Stanley (Department Manager)

Date of Issue: 7/20/2011

Testing Details

Tested By: Michael Stockwell
Field Methods: ASTM D 6938
Lab Methods: ASTM D698
Date Tested: 7/16/2011
Gauge Type: Troxler
Model Number: 3430 **Serial Number:** 39209
Test Mode: Direct Transmission **Standard Count: Density:** 2667
Standard Count: Moisture: 568

Test Results

Test No	Material	Depth of Test (in)	Wet Density (lb/ft ³)	Moisture Content (%)	Dry Density (lb/ft ³)	Relative Compaction (%)	Limit
1	BR Si Clay Tr Sa	6	124.1	20.9	102.6	95.2	≥95

Location and Compaction

Test No	Location	MDD Soil ID	MDD Method	MDD (lb/ft ³)	OMC (%)
General Location: West Plant					
1	CT4: N1323635.45 / E3123599.91, Elevation: 718.38' ASL	External	ASTM D698	107.8	16.9

Comments:



Professional Service Industries, Inc.
5362 West 78th Street
Indianapolis, IN 46268

Phone: (317) 876-7723
Fax: (317) 876-8155

Field Density Report

Report No: FDR:0014637-25

Issue No: 1

Client: SEVENSON ENVIRONMENTAL SERVICE
2749 LOCKPORT ROAD
NIAGRA FALLS, NY 14302

CC: DAN SEKANOVICH
SHANE REYNOLDS

These test results apply only to the specific locations and materials noted and may not represent any other locations or elevations. This report may not be reproduced, except in full, without written permission by Professional Service Industries, Inc.

Approved Signatory: Alex Stanley (Department Manager)

Date of Issue: 7/27/2011

Project: GM BEDFORD - 2011 - SEVENSON
BEDFORD, IN

Testing Details

Tested By: Shawn Stout
Field Methods: ASTM D 6938
Lab Methods:
Date Tested: 7/19/2011
Gauge Type: Troxler
Model Number: 3430 **Serial Number:** 39209
Test Mode: Direct Transmission **Standard Count: Density:** 2658
Standard Count: Moisture: 638

Test Results

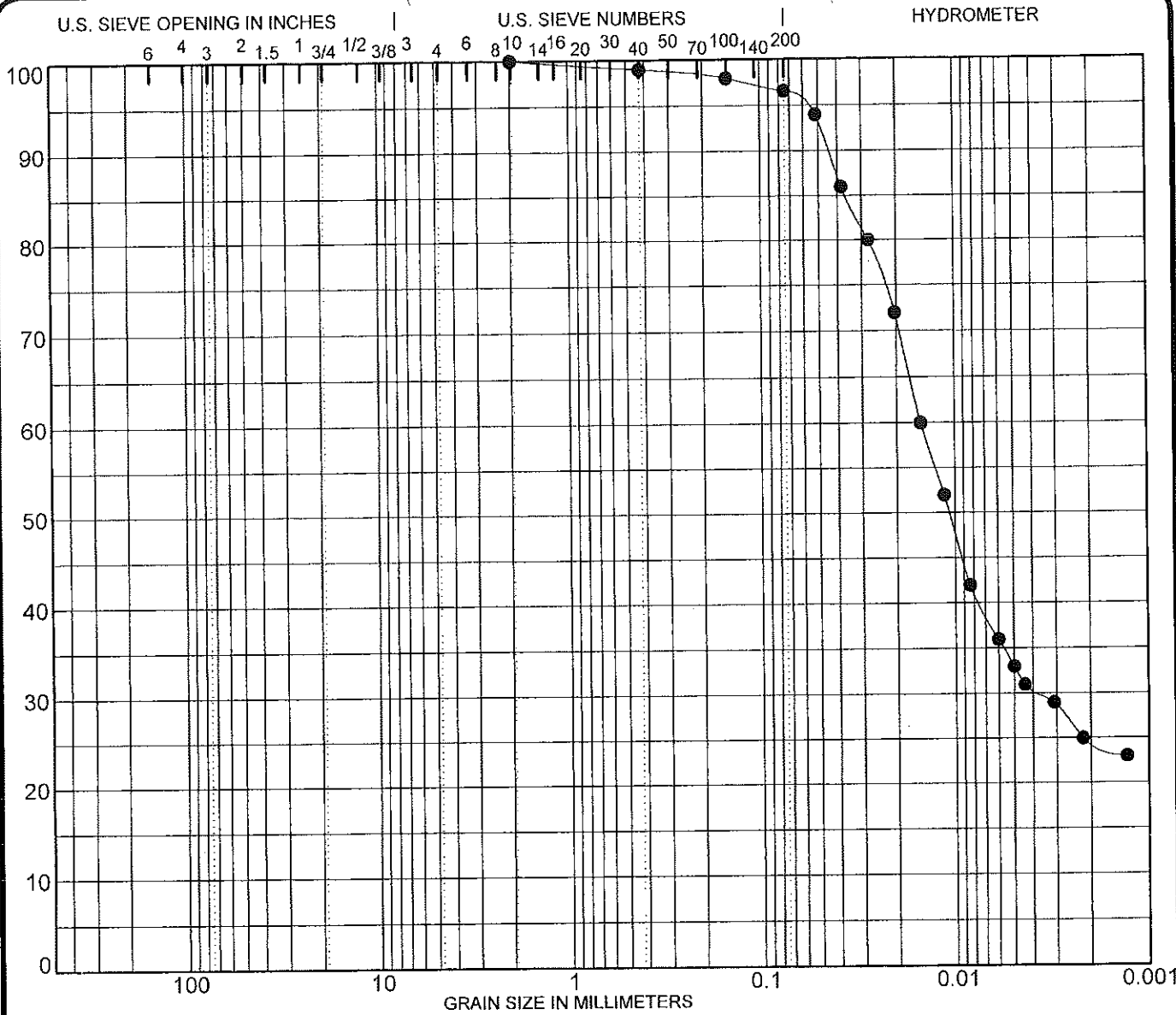
Test No	Depth of Test (in)	Wet Density (lb/ft ³)	Moisture Content (%)	Dry Density (lb/ft ³)	Relative Compaction (%)	Limit
1	6	123.0	19.3	103.1	95.6	≥95
2	6	126.3	19.2	106.0	98.3	≥95
3	6	125.1	19.4	104.8	97.2	≥95
4	6	123.2	20.3	102.4	95.0	≥95
5	6	124.1	19.6	103.8	96.3	≥95

Location and Compaction

Test No	Location	MDD Soil ID	MDD (lb/ft ³)	OMC (%)
General Location: West Plant				
1	CPA5: N1323695.83/E3123554.78, Elv: 718.13' ASL	External	107.8	16.9
2	CPA6: N1323692.37/E3123612.79, Elv: 711.24' ASL	External	107.8	16.9
3	CPA7: N1323627.13/E3123610.89, Elv: 717.34' ASL	External	107.8	16.9
4	CPA8: N1323521.80/E3123659.36/E3123659.36, Elv: 723.09' ASL	External	107.8	16.9
5	CPA9: N1323550.95/E3123650.90, Elv: 721.35' ASL	External	107.8	16.9

Comments

West Plant top 6" lift under asphalt.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

SPECIMEN IDENTIFICATION		SIEVE	% PASS	SOIL CLASSIFICATION			
S-INGRAM-063011-SB-37519A		3 inch	100	Reddish brown silty CLAY, trace sand (CL)			
		2	100				
		1 1/2	100				
		1	100	%GRAVEL	%SAND	%SILT	%CLAY
		3/4	100	0	3	64	33
PERMEABILITY							
GRADIENT (psi)	26.5	3/8	100				
EFFECTIVE STRESS (psi)	3.0	# 4	100	%MC	LL	PL	PI
CELL PRESSURE (psi)	45.0	# 10	100	21.0	41	19	22
K (cm/sec)	1.8X10-8	# 40	99				
		# 100	98				
		# 200	97				

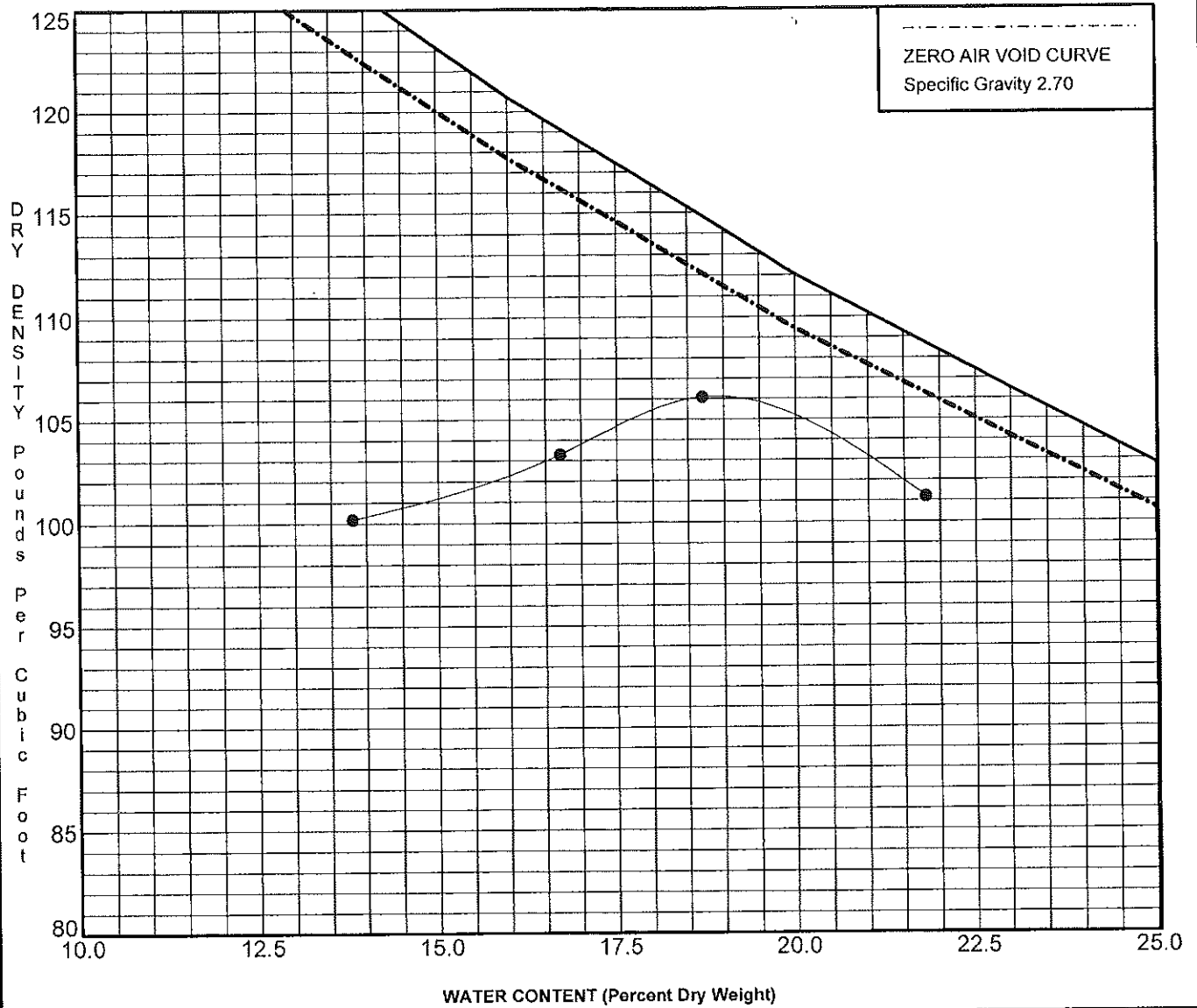
PROJECT GM - Bedford, Soil Testing
 LOCATION Bedford, Indiana

JOB NO. L - 74,807
 DATE July 19, 2011

37519A

SOIL DATA SHEET
 Testing Service Corporation
 Carol Stream, IL 60188

SOILENV: 74807.GPJ TSC ALL.GDT 7/19/11



SPECIMEN IDENTIFICATION	
S-INGRAM-063011-SB-37519A	
MOISTURE/DENSITY RELATIONSHIP	
X	Standard ASTM D698/AASHTO T99
	Modified ASTM D1557/AASHTO T180
Maximum Dry Density (PCF)	106.2
Optimum Water Content (%)	18.8

SOIL CLASSIFICATION	
Reddish brown silty CLAY, trace sand (CL)	
NOTES :	

PROJECT	<u>GM - Bedford, Soil Testing</u>	JOB NO.	<u>L - 74,807</u>
LOCATION	<u>Bedford, Indiana</u>	DATE	<u>July 5, 2011</u>
	<u>37519A</u>		

MOISTURE-DENSITY RELATIONSHIP
Testing Service Corporation
Carol Stream, IL 60188

PROCTORS 74807.GPJ TSC ALL.GDT 7/8/11

7/19/11

013968

CRA: S. Burke

Event: In-place permeability testing

Locⁿ: West Plant

HtS: Level D

Analysis: In-place permeability

0945 CRA begins collection of clay samples using Shelby tube driven 3"-6" bgs. Samples collected were wrapped in duct tape, placed + sealed in cooler. Samples sent to Inspec-sol lab in Waterloo, ON for analysis.

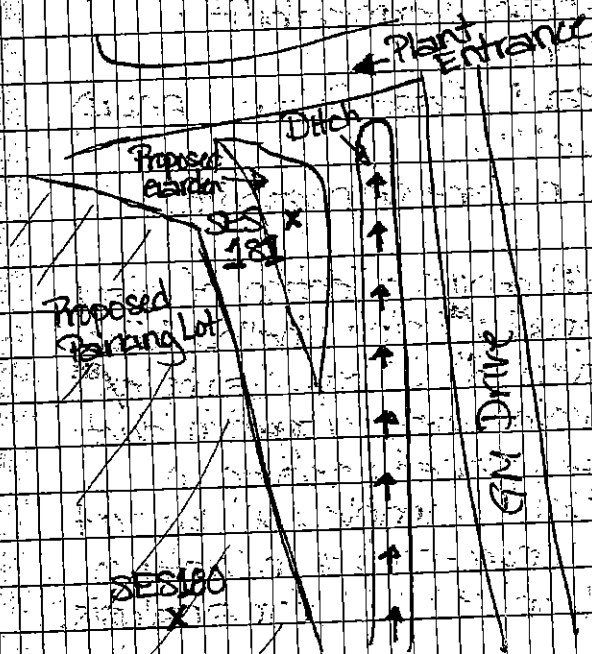
Sample ID:	Time	Proctor	Depth
S-071911-SB-SES180	945	37503	3'-6"
↓ ↓ ↓ -SES181	1000	37503	3'-6"

SB
7/19/11

7/19/11

013968 20

Sample Sketch



SB
7/19/11

Measurement of Hydraulic Conductivity of Saturated Porous Material Using a Flexible Wall Permeameter

**Falling Head Raising Tail (Method C)
(ASTM D-5084)**

Project Name:	GM - Bedford
Project No.:	13968
Project Location:	Bedford, Indiana
Client:	Conestoga Rovers and Associates

Sample ID	S-062811-SB-SES180
Date Collected	July 19, 2011
Date of Test:	July 28 - Aug. 3, 2011
Laboratory No.:	WLB - 0043-1

Type of material	CLAY
-------------------------	------

Sample Parameters	Initial	Final
Diameter, cm	3.8	
Length, cm	4.0	
Dry Density, kg/m ³	1649	
Moisture, %	23.5	24.6

Permeation Condition		
Cell pressure	kPa	300.3
Head pressure	kPa	287.4
Back pressure	kPa	282.3
Volume under steady flow	cm ³	0.5
Hydraulic gradient, l	-	13.0

Hydraulic Conductivity:	cm/s	1.8E-08
--------------------------------	------	---------

REPORTED BY: _____ I. S. _____

DATE: _____ 8/3/2011 _____

Measurement of Hydraulic Conductivity of Saturated Porous Material Using a Flexible Wall Permeameter

**Falling Head Raising Tail (Method C)
(ASTM D-5084)**

Project Name:	GM - Bedford
Project No.:	13968
Project Location:	Bedford, Indiana
Client:	Conestoga Rovers and Associates

Sample ID	S-062811-SB-SES181
Date Collected	July 19, 2011
Date of Test:	July 28 - Aug. 3, 2011
Laboratory No.:	WLB - 0043-2

Type of material	CLAY
-------------------------	------

Sample Parameters	Initial	Final
Diameter, cm	3.8	
Length, cm	4.0	
Dry Density, kg/m ³	1639	
Moisture, %	23.5	25.6

Permeation Condition		
Cell pressure	kPa	300.3
Head pressure	kPa	287.0
Back pressure	kPa	282.2
Volume under steady flow	cm ³	0.5
Hydraulic gradient, l	-	12.2

Hydraulic Conductivity:	cm/s	2.1E-08
--------------------------------	------	---------

REPORTED BY: _____ I. S. _____

DATE: _____ 8/3/2011 _____

Appendix I.2

Granular Fill



Professional Service Industries, Inc.
5362 West 78th Street
Indianapolis, IN 46268

Phone: (317) 876-7723
Fax: (317) 876-8155

Field Density Report

Report No: FDR:0014637-27

Issue No: 1

Client: SEVENSON ENVIRONMENTAL SERVICE
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

CC: DAN SEKANOVICH
SHANE REYNOLDS

Project: GM BEDFORD - 2011 - SEVENSON
BEDFORD, IN

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Approved Signatory: Alex Stanley (Department Manager)
Date of Issue: 8/9/2011

Testing Details

Tested By: Shawn Stout
Field Methods: ASTM D 6938
Lab Methods: ASTM D 698 - 07, ASTM D 698 - 07 (C)
Date Tested: 8/1/2011
Gauge Type: Troxler
Model Number: 3430 **Serial Number:** 39209
Test Mode: Direct Transmission **Standard Count: Density:** 2674
Standard Count: Moisture: 633

Test Results

Test No	Material	Depth of Test (in)	Wet Density (lb/ft ³)	Moisture Content (%)	Dry Density (lb/ft ³)	Relative Compaction (%)	Limit
1	Crushed Stone	4	140.8	2.5	137.4	99.1	≥98
2	Crushed Stone	4	141.8	3.5	137.0	98.8	≥98
3	Crushed Stone	4	140.2	2.4	136.9	98.8	≥98

Location and Compaction

Test No	Location	MDD Soil ID	MDD Method	MDD (lb/ft ³)	OMC (%)
General Location: West Plant Area					
1	CPA-13: N1323586.78/E3123579.31, Elev: 723.96' ASL	0014637-27-S1	ASTM D 698 - 07 (C)	138.6	8.4
2	CPA-14: N1323514.11/E3123624.17, Elev: 724.62' ASL	0014637-27-S1	ASTM D 698 - 07 (C)	138.6	8.4
3	CPA-15: N1323615.99/E3123477.44, Elev: 724.35' ASL	0014637-27-S1	ASTM D 698 - 07 (C)	138.6	8.4

Comments



Professional Service Industries, Inc.
5362 West 78th Street
Indianapolis, IN 46268

Phone: (317) 876-7723
Fax: (317) 876-8155

Proctor Test Report

Report No: PTR:0014512-21-S1

Issue No: 1

Client: SEVENSON ENVIRONMENTAL SERVICE
2749 LOCKPORT ROAD
NIAGRA FALLS, NY 14302

CC: SHANE REYNOLDS

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Project: GM BEDFORD 2010
BEDFORD, IN

Approved Signatory: Christopher Carson (Project Manager)
Date of Issue: 10/21/2010

Sample Details

Sample ID: 0014512-21-S1 **Date Sampled:** 10/19/2010

Sampling Method: Stockpile/Trans - ASTM D 75 - 5.3.3

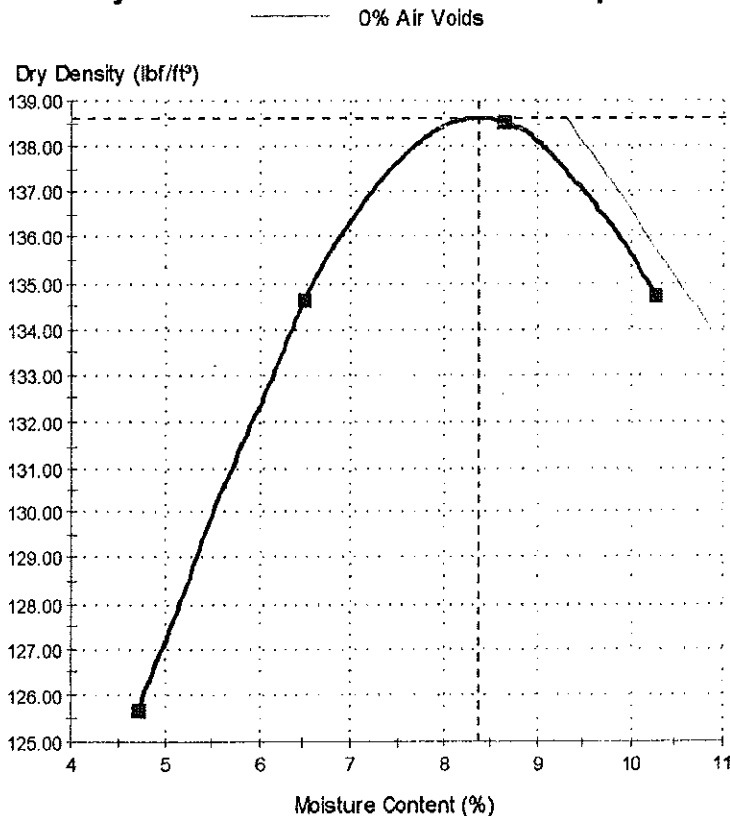
Source: **Material:** Crushed Stone

Specification: ASTM D698 Standard Proctor

Location: On-site Stockpile

Tested By: Christopher Carson **Date Tested:** 10/20/2010

Dry Density - Moisture Content Relationship



Test Results

ASTM D 698 - 07

Maximum Dry Density (lb/ft³): 138.6

Optimum Moisture Content (%): 8.4

Method: C

Preparation Method: Moist

Apparent SG (Fines): 2.80

Retained Sieve 3/8" (9.5mm) (%): 0

Comments

Appendix I.3

Asphalt



Professional Service Industries, Inc.
5362 West 78th Street
Indianapolis, IN 46268

Phone: (317) 876-7723
Fax: (317) 876-8155

Summary Daily Field Report

Report No: SDFR:0014637-28/1

Issue: 1

Client: SEVENSON ENVIRONMENTAL SERVICE CC: DAN SEKANOVICH,
 2749 LOCKPORT ROAD SHANE REYNOLDS

NIAGARA FALLS, NY 14305

Project: GM BEDFORD - 2011 - SEVENSON
 BEDFORD IN

These test results apply only to the specific locations and materials noted and may not represent any other locations or elevations. This report may not be reproduced, except in full, without written permission by Professional Service Industries, Inc.

Approved Signatory: Alex Stanley (Department Manager)
Date of Issue: 9/1/2011

Date: 8/18/2011

WEATHER: Sunny
TEMPERATURE RANGE: 65 TO 90
PSI REPRESENTATIVE: John Staples

TYPE OF INSPECTION BEING PERFORMED

- | | |
|--|---|
| <input type="checkbox"/> SOILS | <input type="checkbox"/> CONCRETE |
| <input type="checkbox"/> FOUNDATIONS | <input type="checkbox"/> BATCH PLANT |
| <input type="checkbox"/> CONTROLLED FILL (COMPACTION) | <input type="checkbox"/> PLACEMENT (JOB SITE) |
| <input type="checkbox"/> | <input type="checkbox"/> SPECIMEN TRANSPORT |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> ASPHALT | <input type="checkbox"/> OTHER |
| <input type="checkbox"/> BATCH PLANT | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> PLACEMENT (JOB SITE) | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

BRIEF RESUME OF WORK ACCOMPLISHED THIS DATE:

PSI was onsite to perform field density testing on the 25mm hot-mix asphalt base placed for the West Plant parking lot/roadway.

PSI also retrieved one sample of asphalt and returned it to our laboratory for testing.

- 25mm base course asphalt
- Location: N1323620.15/E3123489.99 -- Elevation: 724.66' Above Sea Level
- Delivery Temperature: 290 degrees Fahrenheit



Professional Service Industries, Inc.
5362 West 78th Street
Indianapolis, IN 46268

Phone: (317) 876-7723
Fax: (317) 876-8155

Asphalt Field Density Report

Report No: ADR:0014637-28

Issue No: 1

Client: SEVENSON ENVIRONMENTAL SERVICE
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

CC: DAN SEKANOVICH
SHANE REYNOLDS

Project: GM BEDFORD - 2011 - SEVENSON
BEDFORD, IN

These test results apply only to the specific locations and materials noted and may not represent any other locations or elevations. This report may not be reproduced, except in full, without written permission by Professional Service Industries, Inc.

Approved Signatory: Alex Stanley (Department Manager)
Date of Issue: 9/1/2011

Testing Details

Tested By:	John Staples	Date Tested:	8/18/2011
Time Tested:	11:00	Specification:	92 to 97 percent
Gauge Make:	Troxler		
Gauge Model:	3430	Gauge Serial:	39209
Calibration Date:	1/14/2011	Calibration Source:	PSI Pittsburgh PA
Density Standard Count:	2659	Layer Thickness (in):	2.5
Weather:	Sunny	Method:	Rice
Field Methods:	ASTM D 2950 - 05		

Test Results

Test No	Method of Measurement	Count Rate	MLD Method	MLD (lb/ft ³)	In Situ Density (lb/ft ³)	Compaction (%)	Limit
1	Backscatter	Medium	ASTM D 2041 - 03a *	155.10	143.00	92.2	92 - 97
2	Backscatter	Medium	ASTM D 2041 - 03a *	155.10	144.00	92.8	92 - 97

Location

Test Location No

West Plant

1	WPCP16: N1323530.00/E3123640.99/Elv: 724.63' ASL
2	WPCP17: N1323490.23/E3123543.90/Elv: 725.33' ASL

Comments



Professional Service Industries, Inc.
5362 West 78th Street
Indianapolis, IN 46268

Phone: (317) 876-7723
Fax: (317) 876-8155

Asphalt Test Report

Report No: ASP:0014637-30-A1

Issue No: 1

Client: SEVENSON ENVIRONMENTAL SERVICE
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

CC: DAN SEKANOVICH
SHANE REYNOLDS

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Approved Signatory: Alex Stanley (Department Manager)

Date of Issue: 9/1/2011

Project: GM BEDFORD - 2011 - SEVENSON
BEDFORD, IN

Sample Details

Sample ID: 0014637-30-A1
Client Sample ID:
Date Sampled: 08/18/11
Sampled By: John Staples
Specification: INDOT 25.0MM

Supplier: Dave O' Mara Contractor, Inc
Source:
Material:
Sampling Method:
General Location: West Plant Parking Lot
Location: N - 1323620.15 E - 3123489.99 Ele-724.66

Other Test Results

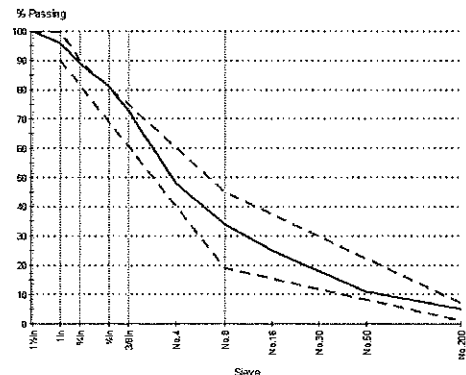
Description	Method	Result	Limits
Test Method	ASTM D 6307 - 05		
HMA Sample before Ignition (g)		2683.5	
HMA Sample after Ignition (g)		2565.0	
Mix Correction Factor		0.00	
Asphalt Content (%)		4.42	
Maximum Specific Gravity	ASTM D 2041 - 03a	2.505	
Container Type	Type E - 4500ml Metal Pycn		
Weighing Procedure	Water		
Number of Samples		1	
Sample 1 Size (g)		2509	

Particle Size Distribution

Method: ASTM C 136 - 06 MDOT
Drying by: Oven
Date Tested:

Sieve Size	% Passing	Limits
1½in	100	=100
1in	96	90 - 100
¾in	89	<90
½in	81	
3/8in	73	
No.4	48	
No.8	34	19 - 45
No.16	25	
No.30	18	
No.50	11	
No.200	5	1 - 7

Chart



Comments

N/A

COMPACTION TESTS WP 08-18-11

41929,1323620.153335,3123489.988348,724.660527,ASP SAMPLE 1
41930,1323530.001629,3123640.989882,724.626701,WP-CP16ASPH
41931,1323490.230275,3123543.897682,725.334643,WP-CP17ASPH



LETTER OF TRANSMITTAL

2749 Lockport Road
 Niagara Falls, New York 14305
 (716) 284-0431

TO: CRA	DATE: August 18, 2011
ADDRESS: GM Drive and 4 th Street	JOB NO.: E801
CITY: Bedford, IN 47421	RE: West Plant Asphalt compaction
ATTENTION Stacy Burke	

PLEASE BE ADVISED:

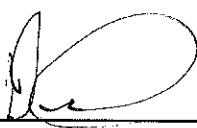
WE ARE SENDING YOU:		<input type="checkbox"/> Attached	<input type="checkbox"/> Under Separate Cover Via The Following:	
<input type="checkbox"/> PRINTS	<input type="checkbox"/> PLANS	<input type="checkbox"/> SHOP DRAWINGS	<input type="checkbox"/> SAMPLES	<input type="checkbox"/> SPECIFICATIONS
<input type="checkbox"/> ARTWORK	<input type="checkbox"/> PROOFS	<input type="checkbox"/> PHOTOGRAPHS	<input type="checkbox"/> COPY OF LETTER	<input type="checkbox"/> CHANGE ORDER
<input type="checkbox"/>				

	No. of Copies	Drawing No.	Date	Description
1	1		8/18/11	PSI field density report for binder testing
2	1		8/18/11	Dave O'Mara asphalt testing
3				
4				
5				
6				
7				

THESE ARE BEING TRANSMITTED AS INDICATED BELOW:

<input checked="" type="checkbox"/> AS REQUESTED	<input type="checkbox"/> APPROVED AS IS	<input type="checkbox"/> SUBMIT COPIES FOR DISTRIBUTION
<input type="checkbox"/> FOR APPROVAL	<input type="checkbox"/> APPROVED WITH CORRECTIONS	<input type="checkbox"/> RETURN CORRECTED
<input checked="" type="checkbox"/> FOR YOUR USE	<input type="checkbox"/> RETURNED WITH CORRECTIONS	<input type="checkbox"/> RETURNED AFTER LOAN TO US
<input type="checkbox"/> FOR YOUR COMMENTS	<input type="checkbox"/> RESUBMIT COPIES FOR APPROVAL	<input type="checkbox"/>

COMMENTS:

COPIES TO:	SEVENSON ENVIRONMENTAL SERVICES, INC.  Signed _____ Daniel Sekanovich
▪ E801	
▪	
▪	
▪	



Field Density of Asphalt / Bituminous By Nuclear Method

ASTM D 2950

Project Information

Client	SEVENSON ENVIRONMENTAL SERVICE
Project	GM BEDFORD 2011 - SEVENSON
Work Order No.	0014637 - 28
Technician	JOHN STAPLES
Date	8-18-2011
Time	
Weather	mostly sunny

Gauge Information

Make	<input checked="" type="checkbox"/> Troxler <input type="checkbox"/> Other (Specify)
Model	3430
Serial No.	39209
Calibration Date	1-14-2011
Calibration Source	
Density Standard Count	2659
Moisture Standard Count	642
Use Density/Moisture Equations	<input checked="" type="checkbox"/> True <input type="checkbox"/> False
Mode	<input checked="" type="checkbox"/> Backscatter <input type="checkbox"/> Direct Transmission

Mix Information

Sample ID	Supplier	Plant	Mix No./Type	Max Density, (lb/ft ³)	Max Specific Gravity
	DAVE O'MARA INC P.O. BOX 1139 NORTH VERNON, NJ	PLANT # 34	25mm	155.1	2.486
Compaction Requirements (%): 92% to 97%					

General Location:

WEST PLANT

Test Results

Test No.	Mix No / Sample ID	Time Sampled	Depth of Measurement (in) or Backscatter	Count Rate (Slow, Medium, Fast)	In Situ Density (lb/ft ³)	Layer Thickness (in)	% Relative Compaction	Comments
1		11:00	BS	1min	143.0	2 1/2"	92.2	3A
Location WPCP16 N1323530.00 E3123640.99 ELEVATION 724.63								
2		11:42	BS	1min	144.0	3 1/2"	92.8	3A
Location WPCP17 N1323490.23 E3123543.90 ELEVATION 725.33								
Location								
Location								
Location								
Location								

Comments

- | | |
|---------------------------------|---|
| 1. Surface | A = Test results comply with specifications |
| 2. Binder | B = Compaction percentage does not comply with specifications |
| 3. Bituminous Aggregate Mixture | C = Retest of previous test |

Remarks

The information presented in this report is preliminary in nature and presented for informational purposes only. The final report shall be conclusive as to PSI's findings. The information included herein is not to be used for acceptance, compliance, or contractual purposes. This information is subject to review and change. These test results apply only to the specific locations noted and may not represent any other locations or elevations. Reports may not be reproduced, except in full, without written permission by Professional Service Industries, Inc.



Dave O'Mara Contractor, Inc.

Plant # :	# 3287	Mixture:	25.0 mm HMA 100 tons	Date & Time:	8/18/2011
Contract:	Sevenson			Mix Temp:	296
Job Location:	Bedford			Lot & Sublot # :	
JMF:	106602 Plate/Truck Sample: Truck			Plate Sample Location:	

Oven Ticket Information	Moisture
Elapsed Time (Minutes):	73:00:00
Sample Weight:	2117.0
Weight Loss:	91.7
Percent Loss:	4.33
Temperature Compensation:	0.14
Calibration Factor:	0.21
Calibrated Binder Content:	3.98
(Actual, Total) Required Binder Content:	4.00
	Initial Sample Weight: 2117.6
	Dried Sample Weight: 2117.2
	Moisture Percentage: 0.02
	Crushed Content
	Total Weight: 1166.9
	Crushed Partical Content: 1166.9
	Percent Crushed: 100.0%

Sieve Size	Weight Retained	Weight Passing	Percent Passing	Specs	Decant
63.0 mm		2025.3	100.0%		After Burn Weight 2025.3
37.5 mm	0.0	2025.3	100.0%	100.0	After Decant Weight 1952.2
25.0 mm	107.5	1917.8	94.7%	97.6	Percent Loss 3.6
19.0 mm	202.2	1715.6	84.7%	89.2	
12.5 mm	176.1	1539.5	76.0%	72.7	
9.5 mm	174.2	1365.3	67.4%	61.2	
4.75 mm	506.9	858.4	42.4%	37.1	
2.36 mm	278.8	579.6	28.6%	25.5	
1.18 mm	137.5	442.1	21.8%	17.2	
600 um	112.1	330.0	16.3%	11.8	
300 um	141.8	188.2	9.3%	6.6	
150 um	69.7	118.5	5.9%	4.4	
75 um	28.2	90.3	4.5%	3.8	
Pan	16.9	73.4			
	1951.9				

	Material Blend	%
Agg. #1		
Agg. #2		
Agg. #3		
Agg. #4		
Agg. #6		
Rap		
P.G. %		
	% AC in Rap	
	Total Agg >>	100.0

GMB AVG= 2.408	Technician:
Max= 2.486	
Airvoids= 3.1	Coop
VMA 12.4	



Dave O'Mara Contractor, Inc.

Plant # : # 3287 Mixture: 25.0 mm HMA Date & Time: 8/18/2011
 520
 Contract: Severson Mix Temp: 290
 Job Location: Bedford Lot & Sublot # :

JMF: 106602 Plate/Truck Sample: Truck Plate Sample Location:

Oven Ticket Information		Moisture	
Elapsed Time (Minutes):	64:00:00	Initial Sample Weight:	2707.5
Sample Weight:	2707.0	Dried Sample Weight:	2707.1
Weight Loss:	111.5	Moisture Percentage:	0.01
Percent Loss:	4.12	Crushed Content	
Temperature Compensation:	0.11	Total Weight:	1478.4
Calibration Factor:	0.21	Crushed Partical Content:	1478.4
Calibrated Binder Content:	3.79	Percent Crushed:	100.0%
(Actual, Total) Required Binder Content:	4.00		

Sieve Size	Weight Retained	Weight Passing	Percent Passing	Specs	Decant																															
63.0 mm		2595.5	100.0%		After Burn Weight	2595.5																														
37.5 mm	0.0	2595.5	100.0%	100.0	After Decant Weight	2516.7																														
25.0 mm	40.6	2554.9	98.4%	97.6	Percent Loss	3.0																														
19.0 mm	250.8	2304.1	88.8%	89.2	<table border="1"> <thead> <tr> <th></th> <th>Material Blend</th> <th>%</th> </tr> </thead> <tbody> <tr><td>Agg. #1</td><td></td><td></td></tr> <tr><td>Agg. #2</td><td></td><td></td></tr> <tr><td>Agg. #3</td><td></td><td></td></tr> <tr><td>Agg. #4</td><td></td><td></td></tr> <tr><td>Agg. #6</td><td></td><td></td></tr> <tr><td>Rap</td><td></td><td></td></tr> <tr><td>P.G. %</td><td></td><td></td></tr> <tr><td colspan="2">% AC in Rap</td><td></td></tr> <tr><td colspan="2">Total Agg >></td><td>100.0</td></tr> </tbody> </table>			Material Blend	%	Agg. #1			Agg. #2			Agg. #3			Agg. #4			Agg. #6			Rap			P.G. %			% AC in Rap			Total Agg >>		100.0
	Material Blend	%																																		
Agg. #1																																				
Agg. #2																																				
Agg. #3																																				
Agg. #4																																				
Agg. #6																																				
Rap																																				
P.G. %																																				
% AC in Rap																																				
Total Agg >>		100.0																																		
12.5 mm	342.9	1961.2	75.6%	72.7																																
9.5 mm	270.0	1691.2	65.2%	61.2																																
4.75 mm	574.1	1117.1	43.0%	37.1																																
2.36 mm	302.1	815.0	31.4%	25.5																																
1.18 mm	201.5	613.5	23.6%	17.2																																
600 um	212.2	401.3	15.5%	11.8																																
300 um	200.3	201.0	7.7%	6.6																																
150 um	74.3	126.7	4.9%	4.4																																
75 um	33.7	93.0	3.6%	3.8																																
Pan	14.0	79.0																																		
	2516.5																																			

GMB AVG= 2.406 Technician:
 Max= 2.492
 Airvoids= 3.7 Coop
 VMA 12.8



Professional Service Industries, Inc.
 5362 West 78th Street
 Indianapolis, IN 46268

Phone: (317) 876-7723
 Fax: (317) 876-8155

Summary Daily Field Report

Report No: SDFR:0014637-29/1

Issue: 1

Client: SEVENSON ENVIRONMENTAL SERVICE 2749 LOCKPORT ROAD
 CC: DAN SEKANOVICH, SHANE REYNOLDS

NIAGARA FALLS, NY 14305

Project: GM BEDFORD - 2011 - SEVENSON
 BEDFORD IN

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Approved Signatory: Alex Stanley (Department Manager)
 Date of Issue: 9/1/2011

Date: 8/19/2011

WEATHER: Partly Sunny
TEMPERATURE RANGE: 68 TO 88
PSI REPRESENTATIVE: John Staples

TYPE OF INSPECTION BEING PERFORMED

- | | |
|--|---|
| <input checked="" type="checkbox"/> SOILS | <input type="checkbox"/> CONCRETE |
| <input type="checkbox"/> FOUNDATIONS | <input type="checkbox"/> BATCH PLANT |
| <input checked="" type="checkbox"/> CONTROLLED FILL (COMPACTION) | <input type="checkbox"/> PLACEMENT (JOB SITE) |
| <input type="checkbox"/> | <input type="checkbox"/> SPECIMEN TRANSPORT |
| <input checked="" type="checkbox"/> ASPHALT | <input type="checkbox"/> |
| <input type="checkbox"/> BATCH PLANT | <input type="checkbox"/> OTHER |
| <input checked="" type="checkbox"/> PLACEMENT (JOB SITE) | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

BRIEF RESUME OF WORK ACCOMPLISHED THIS DATE:

PSI performed field density testing on the structural fill at Area #5.

PSI performed field density testing on the 25mm base course hot-mix asphalt placed on the West Plant parking lot/roadway. One sample and one core sample of asphalt were taken and returned to our laboratory for testing.

- Core Sample: 25 mm base course asphalt – Parking Lot/Roadway – 4.5" base – N1323487.91/E3123665.52/Elevation: 725.44' Above Sea Level
- Sample: 25 mm base course asphalt – Parking Lot/Roadway – 2" base – Temperature: 310 degrees Fahrenheit – N1323467.67/E3123594.00/Elevation: 725.27' Above Sea Level



Professional Service Industries, Inc.
5362 West 78th Street
Indianapolis, IN 46268

Phone: (317) 876-7723
Fax: (317) 876-8155

Asphalt Field Density Report

Report No: ADR:0014637-29

Issue No: 1

Client: SEVENSON ENVIRONMENTAL SERVICE
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

CC: DAN SEKANOVICH
SHANE REYNOLDS

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Approved Signatory: Alex Stanley (Department Manager)

Date of Issue: 9/1/2011

Project: GM BEDFORD - 2011 - SEVENSON
BEDFORD, IN

Testing Details

Tested By:	John Staples	Date Tested:	8/19/2011
Time Tested:	09:30	Specification:	92 to 97 percent
Gauge Make:	Troxler		
Gauge Model:	3430	Gauge Serial:	39209
Calibration Date:	1/14/2011	Calibration Source:	PSI Pittsburgh PA
Density Standard Count:	2641	Layer Thickness (in):	2.0
Weather:	Sunny	Method:	Rice
Field Methods:	ASTM D 2950 - 05		

Test Results

Test No	Method of Measurement	Count Rate	MLD Method	MLD (lb/ft ³)	In Situ Density (lb/ft ³)	Compaction (%)	Limit
1	Backscatter	Medium	ASTM D 2041 - 03a *	155.60	143.60	92.3	92 - 97
2	Backscatter	Medium	ASTM D 2041 - 03a *	155.60	143.10	92.0*	92 - 97

Location

Test Location No

West Plant

1	WPCT18: N1323556.14/E3123600.31/Elevation: 724.64' ASL
2	WPCT19: N1323521.31/E3123522.84/Elevation: 725.79' ASL

Comments

* = Result does not meet the specification

WP COMPACTION TESTS 8-19-11

41932,1323467.674480,3123594.002084,725.275121,ASPH SAMPLE 2
41933,1323556.137487,3123600.313661,724.624812,WPCT 18
41934,1323487.913254,3123665.525525,725.435601,WPCO-1
41935,1323521.309043,3123522.843275,725.789023,WPCT-19



Professional Service Industries, Inc.
5362 West 78th Street
Indianapolis, IN 46268

Phone: (317) 876-7723
Fax: (317) 876-8155

Asphalt Core Density Report

Report No: DDR:0014637-34

Issue No: 1

Client: SEVENSON ENVIRONMENTAL SERVICE
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

CC: DAN SEKANOVICH
SHANE REYNOLDS

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Approved Signatory: Alex Stanley (Department Manager)

Date of Issue: 9/1/2011

Project: GM BEDFORD - 2011 - SEVENSON
BEDFORD, IN

Sample Details

Work Order ID: 0014637-34
Sampled By: John Staples
Date Sampled: 8/19/2011
Date Tested:
Supplier: Dave O' Mara Contractor, Inc
Mix No.:
Lab Methods: ASTM D 2726 - 05a

Alternate ID:
Sampling Method:
Date Submitted:
Specification: 25.0mm Base
Plant No.:

Sample Data

Sample ID	0014637-34-A1	0014637-34-A2	0014637-34-A3	0014637-34-A4	0014637-34-A5	0014637-34-A6
Location	West Plant Parking Lot	West Plant Parking Lot	West Plant Parking Lot	West Plant Parking Lot	West Plant Parking Lot	West Plant Parking Lot
					E-3123518.81	E-3123665.52

Field and Laboratory Data

In-place Core Specific Gravity	2.323	2.218	2.308	2.244	2.313	2.252
Rice Gravity	2.505	2.482	2.505	2.482	2.505	2.505
Relative Density (%)	92.7	89.4	92.1	90.4	92.3	89.9
Total Core Thickness (in)	7.9	1.7	4.6	1.8	7.5	5.5
Layer Thickness (in)	8.0	1.8	4.5	1.8	7.5	5.5
Minimum Relative Density (%)	92.0	92.0	92.0	92.0	92.0	92.0
Minimum Total Core Thickness (in)	4.0	1.5	4.0	1.5	4.0	4.0
Minimum Layer Thickness (in)	4.0	1.5	4.0	1.5	4.0	4.0
Meets Relative Density	Yes	No	Yes	No	Yes	No
Meets Total Core Thickness	Yes	Yes	Yes	Yes	Yes	Yes
Meets Layer Thickness	Yes	Yes	Yes	Yes	Yes	Yes

Comments



Professional Service Industries, Inc.
5362 West 78th Street
Indianapolis, IN 46268

Phone: (317) 876-7723
Fax: (317) 876-8155

Asphalt Test Report

Report No: ASP:0014637-37-A1

Issue No: 1

Client: SEVENSON ENVIRONMENTAL SERVICE
2749 LOCKPORT ROAD
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Date of Issue: 9/1/2011

Project: GM BEDFORD - 2011 - SEVENSON
BEDFORD, IN

Sample Details

Sample ID: 0014637-37-A1
Client Sample ID:
Date Sampled: 08/19/11
Sampled By: John Staples
Specification: INDOT 25.0MM

Supplier: Dave O' Mara Contractor, Inc
Source:
Material:
Sampling Method:
General Location: West Plant Parking Lot
Location: N-1323467.67 E-3123594.00 Ele-725.27

Other Test Results

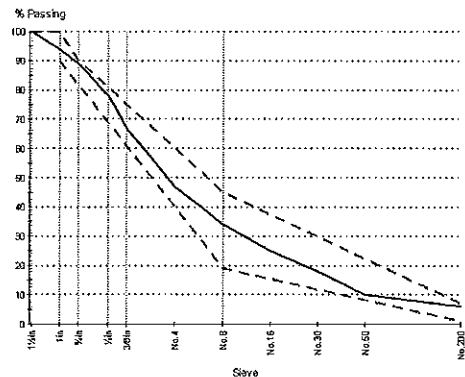
Description	Method	Result	Limits
Test Method	ASTM D 6307 - 05		
HMA Sample before Ignition (g)		2716.6	
HMA Sample after Ignition (g)		2601.6	
Mix Correction Factor		0.00	
Asphalt Content (%)		4.23	
Maximum Specific Gravity	ASTM D 2041 - 03a	2.507	
Container Type	Type E - 4500ml Metal Pycn		
Weighing Procedure	Water		
Number of Samples		1	
Sample 1 Size (g)		2658	
Finer 75µm (Washing Only) (%)	ASTM D 5444 - 05	5.4	

Particle Size Distribution

Method: ASTM D 5444 - 05
Drying by: Oven
Date Tested:

Sieve Size	% Passing	Limits
1½in	100	=100
1in	94	90 - 100
¾in	89	<90
½in	78	
3/8in	67	
No.4	47	
No.8	34	19 - 45
No.16	25	
No.30	18	
No.50	10	
No.200	6.0	1 - 7

Chart



Comments

N/A



LETTER OF TRANSMITTAL

2749 Lockport Road
 Niagara Falls, New York 14305
 (716) 284-0431

TO: CRA	DATE: August 22, 2011
ADDRESS: GM Drive and 4 th Street	JOB NO.: E801
CITY: Bedford, IN 47421	RE: West Plant Asphalt compaction
ATTENTION Stacy Burke	

PLEASE BE ADVISED:

WE ARE SENDING YOU:		<input type="checkbox"/> Attached	<input type="checkbox"/> Under Separate Cover Via The Following:	
<input type="checkbox"/> PRINTS	<input type="checkbox"/> PLANS	<input type="checkbox"/> SHOP DRAWINGS	<input type="checkbox"/> SAMPLES	<input type="checkbox"/> SPECIFICATIONS
<input type="checkbox"/> ARTWORK	<input type="checkbox"/> PROOFS	<input type="checkbox"/> PHOTOGRAPHS	<input type="checkbox"/> COPY OF LETTER	<input type="checkbox"/> CHANGE ORDER
<input type="checkbox"/>				

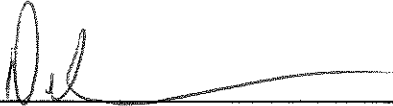
	No. of Copies	Drawing No.	Date	Description
1	1		8/19/11	Dave O'Mara asphalt testing for 8/19/11
2				
3				
4				
5				
6				
7				

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<input checked="" type="checkbox"/> FOR YOUR USE	<input type="checkbox"/> RETURNED WITH CORRECTIONS	<input type="checkbox"/> RETURNED AFTER LOAN TO US
<input type="checkbox"/> FOR YOUR COMMENTS	<input type="checkbox"/> RESUBMIT COPIES FOR APPROVAL	<input type="checkbox"/>

COMMENTS:

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▪	
▪	
▪	

Signed 
Daniel Sekanovich



Dave O'Mara Contractor, Inc.

Plant # : # 3287 Mixture: 25.0 mm HMA Date & Time: 8/19/2011
 80 ton

Contract: Severson Mix Temp: _____

Job Location: Bedford Lot & Sublot # : _____

JMF: 106602 Plate/Truck Sample: Truck Plate Sample Location: _____

Oven Ticket Information	
Elapsed Time (Minutes):	65:00:00
Sample Weight:	2804.0
Weight Loss:	119.3
Percent Loss:	4.25
Temperature Compensation:	0.09
Calibration Factor:	0.21
Calibrated Binder Content:	3.96
(Actual, Total) Required Binder Content:	4.00

Moisture	
Initial Sample Weight:	2804.9
Dried Sample Weight:	2804.4
Moisture Percentage:	0.02
Crushed Content	
Total Weight:	1511.1
Crushed Partical Content:	1511.1
Percent Crushed:	100.0%

Sieve Size	Weight Retained	Weight Passing	Percent Passing	Specs	Decant																				
63.0 mm		2684.7	100.0%		After Burn Weight 2684.7																				
37.5 mm	0.0	2684.7	100.0%	100.0	After Decant Weight 2563.6																				
25.0 mm	37.5	2647.2	98.6%	97.6	Percent Loss 4.5																				
19.0 mm	261.6	2385.6	88.9%	89.2	<table border="1"> <thead> <tr> <th>Material Blend</th> <th>%</th> </tr> </thead> <tbody> <tr><td>Agg. #1</td><td></td></tr> <tr><td>Agg. #2</td><td></td></tr> <tr><td>Agg. #3</td><td></td></tr> <tr><td>Agg. #4</td><td></td></tr> <tr><td>Agg. #6</td><td></td></tr> <tr><td>Rap</td><td></td></tr> <tr><td>P.G. %</td><td></td></tr> <tr><td>% AC in Rap</td><td></td></tr> <tr><td>Total Agg >></td><td>100.0</td></tr> </tbody> </table>	Material Blend	%	Agg. #1		Agg. #2		Agg. #3		Agg. #4		Agg. #6		Rap		P.G. %		% AC in Rap		Total Agg >>	100.0
Material Blend	%																								
Agg. #1																									
Agg. #2																									
Agg. #3																									
Agg. #4																									
Agg. #6																									
Rap																									
P.G. %																									
% AC in Rap																									
Total Agg >>	100.0																								
12.5 mm	266.6	2119.0	78.9%	72.7																					
9.5 mm	260.7	1858.3	69.2%	61.2																					
4.75 mm	684.7	1173.6	43.7%	37.1																					
2.36 mm	361.0	812.6	30.3%	25.5																					
1.18 mm	190.3	622.3	23.2%	17.2																					
600 um	170.3	452.0	16.8%	11.8																					
300 um	178.4	273.6	10.2%	6.6																					
150 um	99.0	174.6	6.5%	4.4																					
75 um	37.2	137.4	5.1%	3.8																					
Pan	16.2	121.2																							
	2563.5																								

GMB AVG=	2.401
Max=	2.494
Airvoids=	3.7
VMA	12.8

Technician: _____

Coop _____



Dave O'Mara Contractor, Inc.

Plant # :	# 3287	Mixture:	25.0 mm HMA 420 tons	Date & Time:	8/19/2011
Contract:	Sevenson			Mix Temp:	
Job Location:	Bedford			Lot & Sublot # :	
JMF:	106602 Plate/Truck Sample: Truck			Plate Sample Location:	

Oven Ticket Information		Moisture	
Elapsed Time (Minutes):	68:00:00	Initial Sample Weight:	3037.6
Sample Weight:	3037.0	Dried Sample Weight:	3037.4
Weight Loss:	121.2	Moisture Percentage:	0.01
Percent Loss:	3.99	Crushed Content	
Temperature Compensation:	0.05	Total Weight:	1609.7
Calibration Factor:	0.21	Crushed Partical Content:	1609.7
Calibrated Binder Content:	3.73	Percent Crushed:	100.0%
(Actual, Total) Required Binder Content:	4.00		

Sieve Size	Weight Retained	Weight Passing	Percent Passing	Specs	Decant																															
63.0 mm		2915.8	100.0%		After Burn Weight	2915.8																														
37.5 mm	0.0	2915.8	100.0%	100.0	After Decant Weight	2816.3																														
25.0 mm	158.0	2757.8	94.6%	97.6	Percent Loss	3.4																														
19.0 mm	364.7	2393.1	82.1%	89.2	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Material Blend</th> <th>%</th> </tr> </thead> <tbody> <tr><td>Agg. #1</td><td></td><td></td></tr> <tr><td>Agg. #2</td><td></td><td></td></tr> <tr><td>Agg. #3</td><td></td><td></td></tr> <tr><td>Agg. #4</td><td></td><td></td></tr> <tr><td>Agg. #6</td><td></td><td></td></tr> <tr><td>Rap</td><td></td><td></td></tr> <tr><td>P.G. %</td><td></td><td></td></tr> <tr><td colspan="2">% AC in Rap</td><td></td></tr> <tr><td colspan="2">Total Agg >></td><td style="text-align: center;">100.0</td></tr> </tbody> </table>		Material Blend		%	Agg. #1			Agg. #2			Agg. #3			Agg. #4			Agg. #6			Rap			P.G. %			% AC in Rap			Total Agg >>		100.0
Material Blend		%																																		
Agg. #1																																				
Agg. #2																																				
Agg. #3																																				
Agg. #4																																				
Agg. #6																																				
Rap																																				
P.G. %																																				
% AC in Rap																																				
Total Agg >>		100.0																																		
12.5 mm	290.7	2102.4	72.1%	72.7																																
9.5 mm	196.1	1906.3	65.4%	61.2																																
4.75 mm	600.2	1306.1	44.8%	37.1																																
2.36 mm	374.9	931.2	31.9%	25.5																																
1.18 mm	257.0	674.2	23.1%	17.2																																
600 um	207.0	467.2	16.0%	11.8																																
300 um	210.5	256.7	8.8%	6.6																																
150 um	86.2	170.5	5.8%	4.4																																
75 um	41.7	128.8	4.4%	3.8																																
Pan	29.2	99.6																																		
	2816.2																																			

GMB AVG=	2.384	Technician: Coop
Max=	2.491	
Airvoids=	4.3	
VMA	13.1	

8/18/11

013968

CRA: S. Burke

Event: West Plant Asphalt
compaction testing

H+S: Level D

Weather: overcast, 80s F

Notes:

0830 PSI on-site + performed 2
passing compaction tests on
2 1/2' lift of base. PSI also
collected a plate sample.
B2G surveyed locations.
Cores will be taken tomorrow
on completed asphalt base.

Test

WP-CP16
WP-CP17.

1 test was taken on parking
area, 1 test was taken on
the heavy duty loading area.

SB

8/18/11

8/19/11

013968

CRA: S. Burke

Event: West Plant Asphalt
compaction testing

H+S: Level D

Weather: overcast, 80s F

Notes:

0830 PSI on-site + performed 2
passing compaction tests on 2"
lift of base. PSI also collected
a plate sample. B2G surveyed
locations. PSI also collected 1
core in the morning on the
parking area + it was > 4 1/2"
required.

Test

WP-CP18
WP-CP19

3 clay compaction tests were
completed in Area 5.



SB

8/19/11

8/19/11

(50)

013968

Test

CP-47

CP-48

CP-49

Proctor

37519A

37519A

37519A

SB

8/19/11

(51)

8/22/11 SB 8/22/11

8/20/11

013968

CP: S. Burke

Event: West Plant asphalt compaction testing

Hrs: 1 level D

Weather: sunny, 60s F

Notes:

0730 PS1 on-site and took core # ^{SB 8/20/11}

on the heavy loading area base. Core depth was the required 7 1/2" for base. 1 core was taken on the final surface depth on the parking area and the total core depth was the required 2 1/6" with the surface layer equal to 1 1/2". Two compaction tests were completed on the surface; 1 on the parking area, 1 on the heavy loading area; both passed (CP-CP20+21). The final core was taken on the heavy loading area and had a surface thickness of 1 1/2".



Professional Service Industries, Inc.
5362 West 78th Street
Indianapolis, IN 46268

Phone: (317) 876-7723
Fax: (317) 876-8155

Asphalt Field Density Report

Report No: ADR:0014637-31

Issue No: 1

Client: SEVENSON ENVIRONMENTAL SERVICE
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

CC: DAN SEKANOVICH
SHANE REYNOLDS

These test results apply only to the specific locations and materials noted and may not represent any other locations or elevations. This report may not be reproduced, except in full, without written permission by Professional Service Industries, Inc.

Approved Signatory: Alex Stanley (Department Manager)

Date of Issue: 9/1/2011

Project: GM BEDFORD - 2011 - SEVENSON
BEDFORD, IN

Testing Details

Tested By:	John Staples	Date Tested:	8/22/2011
Time Tested:	09:34	Specification:	92 to 97 percent
Gauge Make:	Troxler		
Gauge Model:	3430	Gauge Serial:	39209
Calibration Date:	1/14/2011	Calibration Source:	PSI Pittsburgh PA
Density Standard Count:	2654	Layer Thickness (in):	1.5
Weather:	Sunny	Method:	Rice
Field Methods:	ASTM D 2950 - 05		

Test Results

Test No	Mix Type	Method of Measurement	Count Rate	MLD Method	MLD (lb/ft ³)	In Situ Density (lb/ft ³)	Compaction (%)	Limit
1	9.5mm Surface	Backscatter	Medium	ASTM D 2041 - 03a *	153.90	142.70	92.7	92 - 97
2	9.5mm Surface	Backscatter	Medium	ASTM D 2041 - 03a *	153.90	141.60	92.0	92 - 97

Location

Test Location No

West Plant

1	WPCP20: N1323579.47/E3123612.22/Elevation: 724.26' ASL
2	WPCP21: N1323596.34/E3123465.91/Elevation: 725.88' ASL

Comments

WP COMPACTION TESTS 8-22-11

41938,1323641.987315,3123569.085834,723.345007,WPCP-20
41939,1323579.473268,3123612.221877,724.263800,WPCO-3
41940,1323596.335760,3123465.910320,725.884176,WPCP-21
41941,1323648.399955,3123421.908489,724.106217,WPCO-4



Professional Service Industries, Inc.
5362 West 78th Street
Indianapolis, IN 46268

Phone: (317) 876-7723
Fax: (317) 876-8155

Asphalt Test Report

Report No: ASP:0014637-38-A1

Issue No: 1

Client: SEVENSON ENVIRONMENTAL SERVICE
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

CC: DAN SEKANOVICH
SHANE REYNOLDS

These test results apply only to the specific locations and materials noted and may not represent any other locations or elevations. This report may not be reproduced, except in full, without written permission by Professional Service Industries, Inc.

Approved Signatory: Alex Stanley (Department Manager)

Date of Issue: 9/1/2011

Project: GM BEDFORD - 2011 - SEVENSON
BEDFORD, IN

Sample Details

Sample ID: 0014637-38-A1
Client Sample ID:
Date Sampled: 08/22/11
Sampled By: John Staples
Specification: INDOT 9.5 MM

Supplier: Dave O' Mara Contractor, Inc
Source:
Material: 9.5mm Surface
Sampling Method: Road prior Comp - AASHTO T 168 (ASTM D 979) 5.2.3
General Location: West Plant Parking Lot
Location: N-1323524.60 E-3123606.63 Ele-725.07

Other Test Results

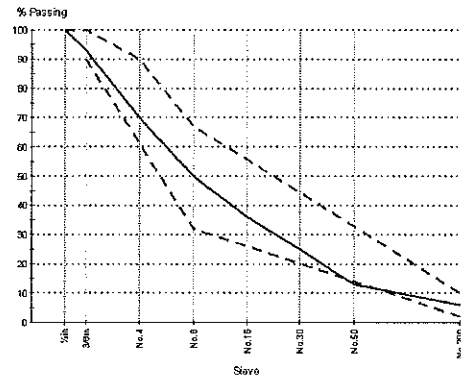
Description	Method	Result	Limits
Test Method	ASTM D 6307 - 05		
HMA Sample before Ignition (g)		1586.4	
HMA Sample after Ignition (g)		1502.2	
Mix Correction Factor		0.00	
Asphalt Content (%)		5.31	
Finer 75µm (Washing Only) (%)	ASTM D 5444 - 05	6.0	
Maximum Specific Gravity	ASTM D 2041 - 03a	2.482	
Container Type	Type E - 4500ml Metal Pycn		
Weighing Procedure	Water		
Number of Samples		1	
Sample 1 Size (g)		1509	

Particle Size Distribution

Method: ASTM D 5444 - 05
Drying by: Oven
Date Tested:

Sieve Size	% Passing	Limits
1/2in	100	=100
3/8in	93	90 - 100
No.4	70	<90
No.8	50	32 - 67
No.16	36	
No.30	25	
No.50	13	
No.200	6.0	2 - 10

Chart



Comments

N/A



LETTER OF TRANSMITTAL

2749 Lockport Road
 Niagara Falls, New York 14305
 (716) 284-0431

TO: CRA	DATE: August 23, 2011
ADDRESS: GM Drive and 4 th Street	JOB NO.: E801
CITY: Bedford, IN 47421	RE: West Plant Asphalt compaction
ATTENTION Stacy Burke	

PLEASE BE ADVISED:


WE ARE SENDING YOU:		<input type="checkbox"/> Attached	<input type="checkbox"/> Under Separate Cover Via The Following:	
<input type="checkbox"/> PRINTS	<input type="checkbox"/> PLANS	<input type="checkbox"/> SHOP DRAWINGS	<input type="checkbox"/> SAMPLES	<input type="checkbox"/> SPECIFICATIONS
<input type="checkbox"/> ARTWORK	<input type="checkbox"/> PROOFS	<input type="checkbox"/> PHOTOGRAPHS	<input type="checkbox"/> COPY OF LETTER	<input type="checkbox"/> CHANGE ORDER
<input type="checkbox"/>				

	No. of Copies	Drawing No.	Date	Description
1	1		8/22/11	Dave O'Mara asphalt testing for 8/22/11
2				
3				
4				
5				
6				
7				

THESE ARE BEING TRANSMITTED AS INDICATED BELOW:

<input checked="" type="checkbox"/> AS REQUESTED	<input type="checkbox"/> APPROVED AS IS	<input type="checkbox"/> SUBMIT COPIES FOR DISTRIBUTION
<input type="checkbox"/> FOR APPROVAL	<input type="checkbox"/> APPROVED WITH CORRECTIONS	<input type="checkbox"/> RETURN CORRECTED
<input checked="" type="checkbox"/> FOR YOUR USE	<input type="checkbox"/> RETURNED WITH CORRECTIONS	<input type="checkbox"/> RETURNED AFTER LOAN TO US
<input type="checkbox"/> FOR YOUR COMMENTS	<input type="checkbox"/> RESUBMIT COPIES FOR APPROVAL	<input type="checkbox"/>

COMMENTS:

COPIES TO:	SEVENSON ENVIRONMENTAL SERVICES, INC.  Signed _____ Daniel Sekanovich
▪ E801	
▪	
▪	
▪	



Dave O'Mara Contractor, Inc.

Plant # : # 3287 Mixture: 9.5mm HMA Date & Time: 8/22/2011
 250 tons
 Contract: Severson Mix Temp: _____
 Job Location: Bedford Lot & Sublot # : _____
 JMF: Plate/Truck Sample: Truck Plate Sample Location: _____

Oven Ticket Information		Moisture	
Elapsed Time (Minutes):	80:00:00	Initial Sample Weight:	1708.5
Sample Weight:	1708.0	Dried Sample Weight:	1708.2
Weight Loss:	102.4	Moisture Percentage:	0.02
Percent Loss:	5.98	Crushed Content	
Temperature Compensation:	0.17	Total Weight:	605.9
Calibration Factor:	0.21	Crushed Partical Content:	605.9
Calibrated Binder Content:	5.60	Percent Crushed:	100.0%
(Actual, Total) Required Binder Content:	5.40		

Sieve Size	Weight Retained	Weight Passing	Percent Passing	Specs	Decant	
63.0 mm		1605.6	100.0%		After Burn Weight	1605.6
37.5 mm		1605.6	100.0%		After Decant Weight	1537.6
25.0 mm		1605.6	100.0%		Percent Loss	4.2
19.0 mm		1605.6	100.0%			
12.5 mm	0.0	1605.6	100.0%	100.0		
9.5 mm	130.6	1475.0	91.9%	92.9	Agg. #1	
4.75 mm	475.3	999.7	62.3%	58.5	Agg. #2	
2.36 mm	279.5	720.2	44.9%	46.7	Agg. #3	
1.18 mm	182.7	537.5	33.5%	33.2	Agg. #4	
600 um	171.0	366.5	22.8%	21.9	Agg. #6	
300 um	180.0	186.5	11.6%	8.8	Rap	
150 um	84.2	102.3	6.4%	4.5	P.G. %	
75 um	24.0	78.3	4.9%	4.0		
Pan	10.0	68.3			% AC in Rap	
	1537.3				Total Agg >>	100.0

GMB AVG=	2.374	Technician: Coop
Max=	2.464	
Airvoids=	3.7	
VMA	15.6	



Dave O'Mara Contractor, Inc.

Plant # : # 3287 Mixture: 9.5mm HMA Date & Time: 8/22/2011
 80 tons
 Contract: Severson Mix Temp: _____
 Job Location: Bedford Lot & Sublot # : _____
 JMF: Plate/Truck Sample: Truck Plate Sample Location: _____

Oven Ticket Information		Moisture	
Elapsed Time (Minutes):	44:00:00	Initial Sample Weight:	1537.5
Sample Weight:	1537.0	Dried Sample Weight:	1537.1
Weight Loss:	86.2	Moisture Percentage:	0.03
Percent Loss:	5.61	Crushed Content	
Temperature Compensation:	0.20	Total Weight:	530.3
Calibration Factor:	0.21	Crushed Partical Content:	530.3
Calibrated Binder Content:	5.20	Percent Crushed:	100.0%
(Actual, Total) Required Binder Content:	5.40		

Sieve Size	Weight Retained	Weight Passing	Percent Passing	Specs	Decant	
63.0 mm		1450.8	100.0%		After Burn Weight	1450.8
37.5 mm		1450.8	100.0%		After Decant Weight	1385.7
25.0 mm		1450.8	100.0%		Percent Loss	4.5
19.0 mm		1450.8	100.0%		Material Blend %	
12.5 mm	0.0	1450.8	100.0%	100.0	Agg. #1	
9.5 mm	97.1	1353.7	93.3%	92.9	Agg. #2	
4.75 mm	433.2	920.5	63.4%	58.5	Agg. #3	
2.36 mm	248.6	671.9	46.3%	46.7	Agg. #4	
1.18 mm	195.1	476.8	32.9%	33.2	Agg. #6	
600 um	141.7	335.1	23.1%	21.9	Rap	
300 um	163.3	171.8	11.8%	8.8	P.G. %	
150 um	74.4	97.4	6.7%	4.5	% AC in Rap	
75 um	22.0	75.4	5.2%	4.0	Total Agg >>	100.0
Pan	10.2	65.2				
	1385.6					

GMB AVG= 2.384 Technician:
 Max= 2.466 Coop
 Airvoids= 3.3
 VMA 14.9

Appendix J

No Further Action Letters for UST Closure



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

March 20, 2008

CERTIFIED MAIL 7007 1490 0000 0838 3295

Ms Cheryl R. Hiatt
GM Remediation Team
2000 Centerpoint Pkwy
Mail Code 483-520-190
Pontiac, MI 48341-3147

Re: Conditional No Further Action
South Piston Yard Site
Bedford, Lawrence County
Site #1994-05-525

Dear Ms. Hiatt:

Staff at the Indiana Department of Environmental Management (IDEM) has reviewed the document *Request for No Further Action* submitted by General Motors, dated February 4, 2008.

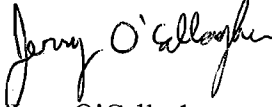
Five Underground Storage Tanks (USTs) were removed and properly disposed of. Contaminated soil around the tanks was removed and properly disposed of. However, because of utilities in the immediate area, some contamination above default closure levels remains.

Based on the information provided, as well as current site use, no further action is required at this time. IDEM reserves the right to modify this determination if additional data or information becomes available indicating that this site may become a risk to human health or the environment.

Because some contamination remains on-site in the areas described, activities must be restricted to prevent direct contact, inhalation or consumption of the contaminants. In addition, activities should be restricted to prevent further migration of the contamination. If site conditions change that could cause exposure or allow migration of the contamination, you must notify IDEM.

If you have questions or to notify IDEM of change in site conditions, please contact me at (317) 233-1522.

Respectfully,


Jerry O'Callaghan
State Cleanup Program
Office of Land Quality

GO:eg

cc: Project file
Peter Ramanauskas, Waste, Pesticides & Toxics Division, U.S. EPA Region 5, 77 West Jackson Blvd. (DT-8J), Chicago, IL 60604-3507
Jim McGuigan, GMPT Bedford/CRA Field Trailer, GM Drive and 4th Street, Bedford, IN 47421



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

November 7, 2008

Ms. Cheryl Hiatt
GM Remediation Team
Engineering West
Mail Code 480-111-W60
30200 Mound Road
Warren, MI 48090

Dear Ms. Hiatt:

Re: **No Further Action Clarification**
GM-Central Foundry-Oil House Area
North Jackson Street
Bedford, Lawrence County
LUST #: 199107058
FID #: 2329

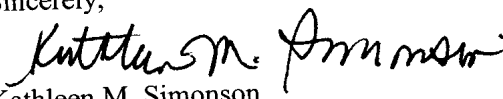
The technical staff of the Indiana Department of Environmental Management (IDEM) reviewed documentation for your facility located at North Jackson Street, Bedford, Indiana. The document reviewed, UST Removal-Site Assessment, was submitted by O'Brien & Gere Technical Services, Inc. on August 4, 1994. This report was for the removal of two (2) USTs near the Oil House area. The report contained a site map and the closure sample locations and analyses results. Attached is a copy of the original No Further Action letter sent August 13, 2004.

Results of soil laboratory analyses indicate that total petroleum hydrocarbons (TPH) were below the detection limit of 20 parts per million.

Based on the information provided no further action is required at this time. This determination is based upon the review of documentation presented to IDEM. If additional information is subsequently provided, IDEM reserves the right to modify or change the determination as the situation may warrant.

If you have any questions or comments regarding this letter, please contact me at 317/234-0979. To notify IDEM of any additional information about the site please call 317/232-8900.

Sincerely,


Kathleen M. Simonson
Environmental Project Manager
Leaking Underground Storage Tank Section
Office of Land Quality

KMS

cc: IDEM file
Mr. Ashley Valentine, CRA



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.in.gov/idem

August 13, 2004

Ms. Cheryl Hiatt
Pontiac Centerpoint Campus-Central
2000 Centerpoint Parkway
Mail Code 483-520-190
Pontiac, Michigan 48371-3147

Dear Ms. Hiatt:

Re: **No Further Action**
GM-Central Foundry
North Jackson Street
Bedford, Lawrence County
LUST #: 199107058
FID #: 2329

The technical staff of the Indiana Department of Environmental Management (IDEM) reviewed documentation for your facility located at North Jackson Street, Bedford, Indiana.

Results of soil laboratory analyses indicate that total petroleum hydrocarbons (TPH) were below the detection limit of 20 parts per million.

Based on the information provided no further action is required at this time. This determination is based upon the review of documentation presented to IDEM. If additional information is subsequently provided, IDEM reserves the right to modify or change the determination as the situation may warrant.

If you have any questions or comments regarding this letter, please contact, Kathleen M. Simonson at 317/234-0979. To notify IDEM of any additional information about the site please call 317/232-8900.

Sincerely,

FOR:

Craig Schroer, Chief
Leaking Underground Storage Tank Section
Office of Land Quality

KMS

cc: IDEM file
Lawrence County Health Department
Mr. Ashley Valentine. CRA

LUST Document Submittal (REVISED 6/6/08)

The Indiana Department of Environmental Management (IDEM) Leaking Underground Storage Tank Programs (LUST and ELTF Technical Sections) fully implemented the Virtual File Cabinet (VFC). Public access is located at:
<http://12.186.81.89/Pages/Public/Search.aspx>

Effective immediately, please include the following when submitting documents to the Leaking Underground Storage Tank Programs (LUST and ELTF Sections):

- **1 complete paper copy of document**
 - Black on white, no shading, letter sized
 - Use bright (primary) colors and only when necessary
 - All simplex or all duplex
 - No binding, tabs, binders, dividers, staples, punched holes or color paper
 - Large format exhibits, e.g. maps and tables grouped together
- **1 CD of document labeled with FID# and document title and date**
- **3 additional copies of all maps and exhibits in the document that are larger than letter sized separate from the complete report** (Note: Generally, larger format maps and tables for LUST sites should be 11"x17".)

For general program information, call 317/232-8900 (toll-free 800/451-6027, ext. 28900) or e-mail LeakingUST@idem.in.gov. Contact the Project Manager for site-specific information. For questions about IDEM public files or VFC, call (317) 234-0965.

Thank you for your cooperation!

Quarterly Monitoring Report Submittal

Due to the high volume of Quarterly Monitoring Reports ("Corrective Action Progress Reports") and the desire to scan submittals within one day of receipt, IDEM requests that owner and environmental consultants/contractors submit one-third (1/3) of all quarterly reports on the following schedule:

1. January 31, April 30, July 31 and October 31
2. February 28, May 31, August 31, November 31
3. March 31, June 30, September 30, December 31

Scheduling for actual sampling and system operation and maintenance activities remain at the discretion of the owner and their consultant. The key is to be consistent from quarter-to-quarter and year-to-year.