



EPA Region 5 Records Ctr.



200586

copy 1 of 2  
Rec'd 10/28/02

0102002

**TECHNICAL MEMORANDUM  
OFF-SITE RESIDENTIAL WELL SURVEY  
AND SAMPLING**

**GM POWERTRAIN BEDFORD FACILITY  
105 GM DRIVE  
BEDFORD, INDIANA**

**EPA ID# IND006036099**

**Prepared For:  
GENERAL MOTORS CORPORATION**



**CONESTOGA-ROVERS & ASSOCIATES**

8615 W. Bryn Mawr Avenue, Chicago, Illinois 60631  
Telephone: (773) 380-9933 Fax: (773) 380-6421  
www.CRAworld.com

**TRANSMITTAL**

DATE: December 17, 2002 REFERENCE NO.: 013968  
PROJECT NAME: GM - Bedford  
TO: Peter Ramanuskas  
U.S.EPA, Region 5  
77 West Jackson Boulevard DW-8J  
Chicago, Illinois 60604-3590

Please find enclosed:  Draft  Final  
 Originals  Other  
 Prints  
Sent via:  Mail  Same Day Courier  
 Overnight Courier  Other

QUANTITY	DESCRIPTION
2	Residential Well Survey and Sampling Technical Memorandum – Table 1 (Pages 1 – 10)

As Requested  For Review and Comment  
 For Your Use

**COMMENTS:**

Page 10 of 10 was inadvertently omitted from previous transmittal dated December 16, 2002, please replace.

Copy to: John Gunter (5 copies)  
Dan Sparks – U.S. FWS  
LaNetta Alexander – ISDH  
Ed Peterson – GM  
Cheryl Hiatt – GM  
Laura Fitzpatrick – GM  
Kathy Bommarito – GM  
Kim Dobensenski – GM  
Bill Schoonmacker – GM  
Glen Turchan – CRA  
Jim McGuigan – CRA  
Rick Bodishbaugh – Exponent  
C.Y. Jeng - Environ

Completed by: Lisa C. Meoli Signed: [Signature]  
[Please Print]

Filing: Correspondence File





**CONESTOGA-ROVERS  
& ASSOCIATES**

8615 W. Bryn Mawr Avenue, Chicago, Illinois 60631  
Telephone: (773) 380-9933 Fax (773) 380-6421  
www.CRAworld.com

**TRANSMITTAL**

DATE: December 16, 2002 REFERENCE NO.: 013968  
PROJECT NAME: GM - Bedford  
TO: Peter Ramanauskas  
U.S. EPA, Region 5  
77 West Jackson Boulevard DW-8J  
Chicago, Illinois 60604-3590

Please find enclosed:  Draft  Final  
 Originals  Other  
 Prints  
Sent via:  Mail  Same Day Courier  
 Overnight Courier  Other

QUANTITY	DESCRIPTION
2	Residential Well Survey and Sampling Technical Memorandum - Revised Text, Table, and Figure

As Requested  For Review and Comment  
 For Your Use

**COMMENTS:**

Please replace the text, table, and figure in your copies of the Residential Well Survey and Sampling Technical Memorandum with the enclosed revised copies.

Copy to: John Gunter - IDEM (5 copies)  
Dan Sparks - U.S. FWS  
LaNetta Alexander - ISDH  
Ed Peterson - GM  
Cheryl Hiatt - GM  
Laura Fitzpatrick - GM  
Kathy Bommarito - GM  
Kim Dobensenski - GM  
Bill Schoonmacker - GM  
Glen Turchan - GM  
Jim McGuigan - GM  
Rick Bodishbaugh - Exponent  
C.Y. Jeng - Environ

Completed by: Lisa Meoli/lg/168  
[Please Print]

Signed: *Lisa Meoli*

Filing: **Correspondence File**



---

## MEMORANDUM

---

TO Cheryl Hiatt  
Lisa Meoli  
FROM Bill Steinmann/lg/11  
REF NO 013968  
DATE December 9 2002  
RE Off Site Residential Well Survey and Sampling Technical Memorandum

---

### INTRODUCTION

This Technical Memorandum (TM) presents a summary of the residential well survey and sampling event conducted at the GM Powertrain Bedford Plant (Bedford Facility) beginning July 23, 2001. This TM presents the scope of work completed and the validated analytical results obtained from groundwater samples collected at various residences through October 25, 2002. All activities were completed in accordance with the following documents:

- June 6, 2001, Off Site Well Survey and Sampling Work Plan,
- June 6, 2001, Health and Safety Plan,
- June 6, 2001, Community Relations Plan, and
- July 18, 2001, Quality Assurance Project Plan – Preliminary RCRA Facility Investigation Activities

The following describes the scope of work and results of the Off Site Well Survey and Sampling program.

### WELL SURVEY

The initial effort consisted of a door to door survey conducted by three survey teams. Each initial team consisted of one representative from Conestoga Rovers and Associates (CRA) and one representative from Decision Quest (DQ). The residential well survey covered the entire area within a one half mile radius of the approximate geographic center of the Bedford Facility (Figure 1). Each team used maps showing all structures currently within this area, which were identified from aerial photographs taken March 27, 2001. The survey teams verified the presence of all structures on each property and interviewed the current occupants to determine the property owner and whether a groundwater supply well, or cistern, was present on the property. If a well or cistern was present, the survey teams determined the current and historical use, and whether the survey team or resident could access the well or cistern to obtain a sample.

All residents visited were given the project Fact Sheets. Residents with an accessible well or cistern were also given an informational letter. The informational letter is provided in Attachment 1. Residents who were not home or were non responsive during the first visit were left the project Fact Sheets and a "Sorry we missed you" leaflet at their door (See Attachment 1 for these communication materials). The residents

who continued to be non responsive were visited at least two additional times, many several more times and were left the fact sheets and a leaflet again on one of these additional visits. Each visit was recorded in the CRA field notebook and DQ logs. If a property appeared abandoned or the survey team was not able to obtain any contact with the resident or owner, tax records were obtained from the Lawrence County or Shawswick Township Tax Assessor's office. Using the owner's name found on the tax record, telephone numbers were obtained through Internet and telephone book research. The DQ representatives attempted to contact these property owners via telephone; and either conducted the well survey over the phone, or arranged an appointment for the survey team to interview the owner in person.

Once the survey team contacted an owner, the CRA representative completed a "Well Survey Form". Information collected on the form included address and phone number of owner and well information. Well information included water source, date of well installation, well depth and location, plumbing material, well casing material, screen material, static water depth and aesthetic qualities of the water. If the property contained an accessible well or cistern, the owner was asked to sign a property access agreement, and the CRA representative sampled the well and completed a "Sample Form" (Attachment 2 presents examples of all forms completed).

As a result of this initial door to door survey, which was completed August 10, 2001, approximately 392 properties were visited within the one half mile radius. These properties contained structures including houses, businesses and churches. Property owners from 350 of the 392 properties were contacted and surveyed during this door to door effort.

After August 10<sup>th</sup>, DQ continued to call and send letters to all outstanding property owners who the survey teams had not been able to contact. In addition, another door to door survey of the outstanding properties was conducted on September 13, 2001.

In the final stage of this effort, the status of 25 properties remained outstanding. Personalized letters were mailed to 22 of these properties with a return receipt requested on October 23, 2001. As a result of these letters, five additional properties were completed: four called the information line to report that they did not have a well and one signed an access agreement to allow her cistern to be sampled. Ten properties returned a receipt, but did not respond to the information line about whether they have a well. Seven properties did not return a receipt.

Personalized letters were not sent to three of the outstanding properties. DQ had already been in contact with two of the owners over the telephone. The owner of the first property refused to provide any information, and hung up on DQ. This was counted as a denial, and no further attempt was made to contact the owner. The owner of the second property has never been on the property, which he purchased at a police auction. The owner has indicated that he will contact GM once he has received the deed to the property. The third property owner has never been approached by DQ or CRA. The property has no trespassing signs surrounding it. A neighbor indicated that the property has no water, electricity or phone, and the property owner has knocked down his mailbox so that he cannot receive mail. No further attempts were made on this property.

An overview of the results of the Off Site Well Survey for the entire half mile radius is presented on Figure 2. None of the wells surveyed within the half mile radius of the Plant were used as potable water. However, one well was being used for drinking and a well was utilized for watering the lawn and gardens outside of the half mile radius, both were non detect for PCBs.

## WELL SAMPLING

During the initial door to door survey from July 23, 2001, through August 10, 2001 37 wells and 12 cisterns were identified within the half mile radius of the plant. Of these seven wells and four cisterns were found to be accessible and were sampled. Analytical data is summarized in Table 1. All cisterns were sampled using disposable bailers. Three wells were sampled using a hand pump, three wells were sampled using disposable bailers and one well was sampled through a spigot. Field measurements of pH, conductivity, temperature and turbidity were measured and recorded on the Sample Forms provided in Attachment 2.

Additional sampling occurred from the period of September 14, 2001 through June 7, 2002. No additional samples have been collected from June 7, 2002 until October 25, 2002. In addition to the wells and cisterns identified and sampled in the initial survey, one cistern and eighteen residential wells were identified and sampled during the follow up door to door well survey or later contact from the well owner amending the information collected during the survey. This additional sampling brought the total number of cisterns sampled to five and the total number of wells sampled to twenty five. It should be noted that nine of the residential wells were outside of the half mile radius, but were sampled at the owner's request.

Those wells that showed surrogate recovery inconsistencies and inconclusive data were resampled by CRA on September 14 & 15, 2001, October 1, 2001, January 29, 2002, March 28, 2002, April 10, 2002, May 7, 2002, and June 6, 2002. All sampling was performed in accordance with protocol included in the June 6, 2001 Off Site Well Survey and Sampling Work Plan. Analytical data is summarized in Table 1.

## RESULTS

Groundwater samples from residential wells were analyzed for total PCBs (EPA Method 508 for Drinking Water), and select samples were also analyzed for dissolved PCBs. Field parameters including pH, temperature, turbidity and specific conductivity were also collected. Of the twenty five residential wells sampled, six wells had detectable concentrations of PCBs. All of the cisterns sampled were non detect for PCBs. The analytical results from two of the wells indicated surrogate recovery problems, with percentage of recovery below the acceptable range (70 to 130 percent). Those samples were resampled to confirm analytical data. Analytical results from well and cistern samples are summarized on Table 1 and are included as Attachment 3. Locations for all the wells and cisterns are shown on Figure 2, with the exception of two wells outside the limits of the Figure 2 map. These two wells are shown independently on Figure 3.

The following is a summary of those six wells where PCBs were detected. Refer to Figure 2 for groundwater sample locations.

Polychlorinated Biphenyl's (PCBs) were detected in low level estimated quantities at a groundwater sample collected from a residential well located on North Lawrence Street. The estimated levels detected for total PCBs were 0.26 µg/L and 0.13 µg/L (duplicate samples had been collected) as summarized in Table 1. Dissolved PCBs were not detected in the water sample from this well. Refer to Table 1 and Figure 2 for sample locations.

PCBs were also detected in four wells located on Barlow Lane to the east of the GM Plant. The results for

these four wells are summarized below

- One well exhibited total PCB concentrations of 1.1 µg/L during the initial sampling. This well was re-sampled, with a total PCB concentration of 0.95 µg/L detected.
- One well exhibited estimated total PCB concentrations of 0.16 µg/L and 0.2 µg/L (duplicate sample). Dissolved PCBs were not detected in either of the duplicate samples.
- One well exhibited an estimated total PCB concentration of 0.74 µg/L. Dissolved PCBs were not detected.
- At one location oil was identified in the well, therefore, the oil/water mixture samples were analyzed for total PCBs. Samples were collected from the oil/water at the top of the water column (LNAPL) and at the bottom of the water column (DNAPL). PCB concentrations were estimated at 3.8 µg/L and 0.87 µg/L, respectively, as summarized in Tables 1.

PCBs were detected in the initial sample obtained from a well located northeast of the Plant on Broomsage Road. This well is outside the half mile radius, but was sampled at the owner's request. The initial sample obtained from this well had an estimated PCB concentration of 1.7 µg/L. The well was re-sampled for both total and dissolved PCBs. No PCBs, either total or dissolved, were detected in the duplicate samples obtained from the well.

### SUMMARY

Owners of 372 of the 392 properties within a one half mile radius of the Bedford Facility have been contacted and surveyed. This survey included the sampling of twenty five wells and five cisterns, and the re-sampling of five of these wells by CRA. Twenty property owners could not be found and surveyed. After discussion with the U.S. EPA and the Indiana Department of Environmental Management, GM has concluded the proactive search for groundwater supply wells, or cisterns, within the one half mile radius of the Bedford Facility. GM will, however, continue to respond to any new information concerning well locations in the investigation area after the date of this TM.

**ATTACHMENT 1**



**Worldwide Facilities Group  
Environmental & Regulatory Support  
Remediation Team**

July 23, 2001

Dear Neighbor:

I am writing on behalf of General Motors Corporation (GM) to provide you with information about an environmental investigation that GM is conducting at the GM Powertrain Facility in Bedford. GM is conducting this investigation as part of a Voluntary Agreement with Region 5 of the U.S. Environmental Protection Agency (U.S. EPA) for a Resource Conservation and Recovery Act (RCRA) Corrective Action.

Congress enacted RCRA in 1976 to address the safe management and disposal of hazardous waste. Corrective Action is the process of investigating and cleaning up, if necessary, areas of a facility that may have been affected by the management of hazardous waste. All facilities that ever applied for a permit to manage hazardous waste are subject to this kind of investigation. The enclosed Project Fact Sheets provide more information on the RCRA Corrective Action at the Bedford facility.

Two of our first tasks are to conduct stream and groundwater investigations at and around the facility. The stream investigation will be conducted in two steps. First we plan to map creeks and streams near the plant. Next we want to collect stream surface water, sediment, fish, and nearby soils from those areas. For the groundwater investigation, we would like to identify and sample private wells within a half-mile radius of the site. Based on the results of the initial investigation, GM will work with U.S. EPA to decide whether additional testing is needed and then what cleanup activities, if any, are appropriate.

We would like your permission to sample your well and gather information on the construction of your well, if available. One or two technicians using small, hand-held equipment would collect the sample. It should take about half an hour. We will send the sample to Aqua Tech Environmental Laboratories for analysis at no cost to you. Aqua Tech Environmental Laboratories is in North Canton, Ohio and is certified by the State of Indiana for the analysis of drinking water. We will provide you with the results within six to eight weeks of taking the last sample during this groundwater investigation.

If you use your well for drinking water, we see no reason to recommend that you stop. However, if you would prefer, we would be happy to provide you with bottled drinking water, at no cost to you, until you receive the test results for your well. If you are interested in obtaining bottled water, please contact Culligan, 2217 West 16th Street in Bedford, at (812) 275-0036 and let them know you are calling in relation to the GM Bedford project. We are committed to the health and safety of our employees and the community.

With this letter, we have provided an agreement for access between you and GM for the sampling of your well. By signing this agreement, you would be allowing access to GM and its contractors to conduct this work on your property. GM will take every possible precaution to

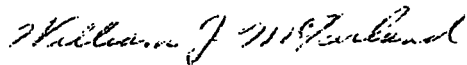
July 23, 2001

Page 2

this agreement, you would be allowing access to GM and its contractors to conduct this work on your property. GM will take every possible precaution to minimize any disruption our activities may cause and will repair any damage that might inadvertently occur. GM will assume any liability associated with the work.

We appreciate your assistance and cooperation as we proceed with the Voluntary RCRA Corrective Action. We will keep employees and the community informed as we progress through the work. If you have any questions, please call Kathy Bommarito of GM toll-free at 866-223-0856 or you can reach her by e-mail at [Kathy.Bommarito@gm.com](mailto:Kathy.Bommarito@gm.com).

Sincerely,



William J. McFarland

Enclosures



**Worldwide Facilities Group  
Environmental & Regulatory Support  
Remediation Team**

July 23, 2001

Dear Neighbor:

I am writing on behalf of General Motors Corporation (GM) to provide you with information about an environmental investigation that GM is conducting at the GM Powertrain Facility in Bedford. GM is conducting this investigation as part of a Voluntary Agreement with Region 5 of the U.S. Environmental Protection Agency (U.S. EPA) for a Resource Conservation and Recovery Act (RCRA) Corrective Action.

Congress enacted RCRA in 1976 to address the safe management and disposal of hazardous waste. Corrective Action is the process of investigating and cleaning up, if necessary, areas of a facility that may have been affected by the management of hazardous waste. All facilities that ever applied for a permit to manage hazardous waste are subject to this kind of investigation. The enclosed Project Fact Sheets provide more information on the RCRA Corrective Action at the Bedford facility.

Two of our first tasks are to conduct stream and groundwater investigations at and around the facility. The stream investigation will be conducted in two steps. First we plan to map creeks and streams near the plant. Next we want to collect stream surface water, sediment, fish, and nearby soils from those areas. For the groundwater investigation, we would like to identify and sample private wells within a half-mile radius of the site. Based on the results of the initial investigation, GM will work with U.S. EPA to decide whether additional testing is needed and then what cleanup activities, if any, are appropriate.

We would like your permission to map the stream(s) that runs through your property. Mapping entails walking through and around the stream to determine the plants, animals, uses and characteristics like the types of sediment present, width, depth, and flow rate of the stream. In the future, we may also want to collect surface water, sediment, fish and nearby soil samples. Two or three technicians using small, hand-held equipment would collect the samples. For each of the mapping and sampling activities, we only expect to be on your property for one or two days. Surface water samples would likely be taken during periods of high water and low water. Sample locations will be determined based on the mapping results and consultation with U.S. EPA and IDEM. Before we begin sampling, we would be happy to discuss the locations and procedures with you. In addition, any samples that we collect will be sent to Severn Trent Laboratories (STL) for analysis at no cost to you. STL is in Canton, Ohio and is a certified laboratory for the State of Indiana. We will provide you with the results within six to eight weeks of taking the last sample during this stream investigation.

We would also like your permission to sample your well and gather information on the construction of your well, if available. One or two technicians using small, hand-held equipment would collect the sample. It should take about half an hour. We will send the sample to Aqua Tech Environmental Laboratories for analysis at no cost to you. Aqua Tech Environmental



**Worldwide Facilities Group  
Environmental & Regulatory Support  
Remediation Team**

**Sorry we missed you!** We stopped by to update you about some activities that will be taking place at and around the General Motors (GM) Powertrain - Bedford facility. These activities are being conducted under a voluntary agreement that GM recently signed with the U.S. Environmental Protection Agency. The attached fact sheets will explain more.

One of our first activities is to begin a groundwater investigation at and around the facility. As part of that investigation, we would like to identify and sample private wells within a half-mile radius of the facility.

As you fall within this radius, we would like to know whether or not you have a well. **We would appreciate it very much if you would call Kathy Bommarito of GM toll-free at 866-223-0856 to let her know whether or not you have a well.** We also are happy to answer any questions you have about the attached fact sheets.

The people at GM are dedicated to protecting the health and safety of the plant's employees and our neighbors and to completing the environmental work that is outlined in the voluntary agreement. Thank you in advance for your cooperation. We look forward to speaking with you throughout this process.

Sincerely,



**Worldwide Facilities Group  
Environmental & Regulatory Support  
Remediation Team**

**Sorry we missed you!** We stopped by to update you about some activities that will be taking place at and around the General Motors (GM) Powertrain - Bedford facility. These activities are being conducted under a voluntary agreement that GM recently signed with the U.S. Environmental Protection Agency. The attached fact sheets will explain more.

One of our first activities is to begin a groundwater investigation at and around the facility. As part of that investigation, we would like to identify and sample private wells within a half-mile radius of the facility.

As you fall within this radius, we would like to know whether or not you have a well. **We would appreciate it very much if you would call Kathy Bommarito of GM toll-free at 866-223-0856 to let her know whether or not you have a well.** We also are happy to answer any questions you have about the attached fact sheets.

The people at GM are dedicated to protecting the health and safety of the plant's employees and our neighbors and to completing the environmental work that is outlined in the voluntary agreement. Thank you in advance for your cooperation. We look forward to speaking with you throughout this process.

Sincerely,

**VOLUNTARY RCRA CORRECTIVE ACTION  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA  
May 24, 2001**

This is the first Project Fact Sheet that has been prepared to provide the community with an introduction to activities to be performed at the General Motors Corporation (GM) Bedford facility.

The facility is located at 105 GM Drive in Bedford, Indiana, on approximately 150 acres. The facility currently produces aluminum casting products, such as transmission casings, pistons, and engine blocks, within approximately one million square feet of operating floor space.

The Bedford facility was originally constructed in the early 1900's as a limestone milling operation. The U.S. Government purchased the mill in 1942, converting the facility to an aluminum aircraft engine foundry, which was operated by GM. GM purchased the property after World War II and has continued to operate the facility as an aluminum foundry as part of various GM operating divisions.

GM is currently initiating a Resource Conservation and Recovery Act (RCRA) Corrective Action program at the facility pursuant to a Voluntary Corrective Action Agreement between the U.S. EPA and GM, which became effective in March 2001. Corrective Action is required for all facilities who applied for a permit to store hazardous waste and is basically an evaluation of whether plant waste management operations have impacted the environment. The Agreement states that GM will work with U.S. EPA voluntarily to identify whether releases of hazardous constituents have occurred at or from the Bedford facility, define the nature and extent of potential releases, and complete cleanups, as needed.

Project Fact Sheets will be issued periodically during the implementation of the Corrective Action program to keep the community informed of ongoing activities at the facility



March 27, 2001 Aerial Photograph

The RCRA Corrective Action at the facility will include completion of the following activities:

1. Current Conditions Report (CCR)
  - Report summarizing available information on the plant.
  - GM is currently completing the CCR
2. RCRA Facility Investigation (RFI)
  - Investigates open environmental issues identified in the CCR.
3. Interim Cleanup Activities (as needed)
4. Final Cleanup Activities (as needed)

The CCR will be sent to U.S. EPA and the Indiana Department of Environmental Management (IDEM) upon completion in May and will be available for public review in a local information repository (to be established).

A toll free number will be established as a point of contact for the public.



Please direct any questions about this project to Ms. Kathy Bommarito of GM by phone at (248)857-6386 or by e-mail at [kathy.bommarito@gm.com](mailto:kathy.bommarito@gm.com).

**VOLUNTARY RCRA CORRECTIVE ACTION  
GM POWERTRAIN-BEDFORD PLANT  
BEDFORD, INDIANA  
July 16, 2001**

**INTRODUCTION**

General Motors Corporation (GM) and U.S. EPA Region V, under a Voluntary Agreement, are undertaking RCRA Corrective Action at the GM Powertrain - Bedford Plant (Site) in Bedford, Lawrence County, Indiana.

This is the second Project Fact Sheet that has been prepared to provide the community with information regarding activities to be performed at the Site.

**SITE BACKGROUND**

The Site is located at 105 GM Drive in Bedford, Indiana, on approximately 152.5 acres. The Site currently produces aluminum casting products, such as transmission casings, pistons, and engine blocks, within approximately one million square feet of operating floor space.

The Bedford Site was originally constructed in the early 1900's as a limestone milling operation. The U.S. Government purchased the mill in 1942, converting the Site to an aluminum aircraft engine foundry, which was operated by GM. GM purchased the property after World War II and has continued to operate the Site as an aluminum foundry as part of various GM operating divisions.



March 27, 2001 Aerial Photograph

**RCRA CORRECTIVE ACTION**

The Resource Conservation and Recovery Act (RCRA) is a federal law that encourages recycling and requires responsible waste management in a manner that is protective of human health and the environment.

Corrective Action is a process through which the areas of a facility that may have been affected by the management of solid or hazardous waste, or releases of hazardous constituents, are evaluated and, if necessary, remediated.

United States Environmental Protection Agency (U.S. EPA) Region V, has signed a voluntary Agreement with GM for Corrective Action work at the Site.

Indiana Department of Environmental Management (IDEM), is co-operating with U.S. EPA and GM on the voluntary Corrective Action work being performed at the Site.

ENCORE, a wholly owned subsidiary of GM, will be performing Corrective Action work at the Site.

Project Fact Sheets will be issued periodically during the implementation of the Corrective Action program to keep the community informed of ongoing activities at the Site.



Please direct any questions about this project to Ms. Kathy Bommarito of GM by phone (toll free) at 1-866-223-0856 or by e-mail at [kathy.bommarito@gm.com](mailto:kathy.bommarito@gm.com). U.S. EPA and IDEM contact information is provided on the next page.

## RCRA CORRECTIVE ACTION

GM is currently conducting RCRA Corrective Action at the Site pursuant to a RCRA Voluntary Corrective Action Agreement between the U.S. EPA and GM, which became effective on March 20, 2001. Corrective Action is required for all facilities which applied for a permit to manage hazardous waste and is basically an evaluation of whether plant waste management operations have impacted the environment. The Voluntary Agreement is designed to identify and address any significant risks to human health or the environment resulting from the release of hazardous waste or hazardous constituents to environmental media such as soil or water. Under the terms of the Voluntary Agreement, GM is taking the lead role to investigate the Site and perform any needed remediation work. The scope of investigation and any required cleanup work will be reviewed with U.S. EPA and will be conducted according to standards that are protective of public health and the environment.

The Corrective Action process begins with a Current Conditions Report, which provides a summary of current Site environmental conditions at areas where wastes have been managed or stored with the potential for release to environmental media. The Current Conditions Report was submitted to U.S. EPA and IDEM on May 25, 2001.

The next step in the Corrective Action process is a RCRA Facility Investigation (RFI). The RFI involves gathering information regarding possible releases of hazardous waste or hazardous constituents from waste management units and other areas of interest at the Site. During the RFI, environmental media, such as soil or water, will be studied to determine if they have been affected by past operations. The investigation will collect information to determine whether remedial activities are needed and will help identify appropriate cleanup methods. The following initial RFI activities will be initiated in July 2001:

- Off-Site Well Survey and Sampling
- Stream Investigation

The Off-Site Well Survey and Sampling has been designed to determine whether groundwater wells are present within a radius of approximately 1/2 mile of the Site and if groundwater wells are present, to sample that water.

The Stream Investigation has been designed to evaluate surface water, sediment and flood bank soil quality in the nearby streams. In addition, the stream investigation will also look at fish in these streams.

These initial RFI activities will be followed by on-Site investigations and additional off-Site investigations, as necessary.

## PUBLIC PARTICIPATION

A Community Relations Plan has been prepared as part of the RCRA Corrective Action program. The purpose of the Community Relations Plan is to present GM's general approach to keeping the community informed of the findings and status of activities. An information repository has been established where project related documents are available for public review. The information repository is located at:

Bedford Public Library  
1323 K Street  
Bedford, Indiana  
Tel: (812) 275-4471

## CONTACT INFORMATION

If you would like more information about this project, please contact any of the following:

**GM**  
Kathy Bommarito  
Tel: (866) 223-0856 (toll-free)

**U.S. EPA**  
Peter Ramanauskas  
Tel: (312) 886-7890

**IDEM**  
John Gunter  
Tel: (317) 232-3413

**ATTACHMENT 2**



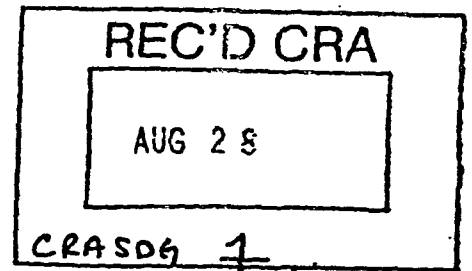
**ATTACHMENT 3**



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT



PROJECT NO. 13968

GM-BEDFORD

Lot #: A1G250267

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
11100 Metro Airport Center Dr.  
Suite 160  
Romulus, MI 48174

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: See below

SEVERN TRENT LABORATORIES, INC. Name: GM - Bedford

#### Description

Event: GW Supply Well survey

Sample: M/24-1

Analysis: PCB

Amy L. McCormick  
Project Manager

TAT: \_\_\_\_\_

Lab: Sub Contract - ATEL

Checked Against Preliminary Data:

Date: 8/20/01 Init: AMC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: A1 G2 50267

August 27, 2001

## **CASE NARRATIVE**

**A1G250267**

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received July 25, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

### **Sample ID Cross Reference**

**CRA**  
**GW-072401-485025-JS-001**

**STL**  
**A1G250267-001**

**Aqua Tech**  
**MEL01-09355**

  
**Amy McCormick**  
**Project Manager**



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 24-Aug-01

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09355

Your Sample ID: A1G250267-1 w/MS/MSD

Date Logged In: 7/30/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 7/26/2001

PO#: SR032331

**- COLLECTION INFORMATION -**

Date/Time/By: 7/24/01

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
	SH	7/30/01	8/7/01		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09355	508	Decachlorobiphenyl (Surr)	68 %R *	70	130
		low surrogate recovery			
MEL01-09355	508	Tetrachloro-m-xylene (Surr)	121 %R	70	130

*all data have been reviewed and validated as directed by CRAS Senior Chemist - Paul Wiseman, August 30, 2001*

End of Report

*all data are reported as is without qualification (AUS 9-18-01)*

Report Approved By:

*Wade T. DeLong*  
Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).*

Your Sample ID: A1G250267-1 w/MS/MSD

Lab Number MEL01-09355

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL C/O STL - North Canton

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

13968

PROJECT NAME:

GM-Bedford

SAMPLER'S SIGNATURE:

*Jessica Seck*

PRINTED NAME:

Jessica Seck

No. OF CONTAINERS

PARAMETERS

*TPW, PCE, SV*

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
1	7/24/01	11:45	GW-072401-485025-JS-001	Water	6	X	Extra Volume Collected MS/MSD

\*Ref. July 2001 QAPP  
\*TAT=2 WK Final Report  
\*CRA Contact= Paul Hasen

TOTAL NUMBER OF CONTAINERS 6

RELINQUISHED BY: ① <i>Jessica Seck</i>	DATE: 7/24/01 TIME: 2060	RECEIVED BY: ②	DATE:
RELINQUISHED BY: ②	DATE:	RECEIVED BY: ③	DATE:
RELINQUISHED BY: ③	DATE:	RECEIVED BY: ④	DATE:

METHOD OF SHIPMENT: FedEx AIR BILL No.

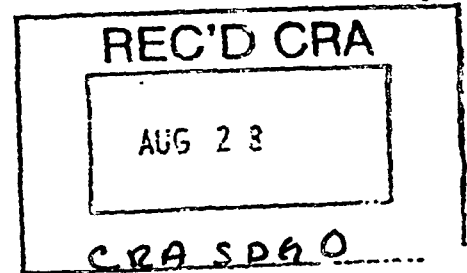
White - Fully Executed Copy	SAMPLE TEAM: <i>Jessica Seck</i>	RECEIVED FOR LABORATORY BY: <i>[Signature]</i>
Yellow - Receiving Laboratory Copy		TIME: 7-25-01 TIME: 0915
Pir - Shipper Copy		419
Gold - Sampler Copy		



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fac: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT



PROJECT NO. 13968

GM-BEDFORD

Lot #: A16250272

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
11100 Metro Airport Center Dr.  
Suite 160  
Romulus, MI 48174

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A162502

SEVERN TRENT LABORATORIES, INC. Name: GMPT - Bedford Plant

#### Description

Event: GW Supply Well Survey

Sampler: 1 (7/24-002)

Analysis: PCB

TAT: 2WK

Lab: ATL / STL

Checked Against Preliminary Data:

Date: 8/29/01 Init: MSC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

Amy L. McCormick  
Project Manager

August 27, 2001

## CASE NARRATIVE

A1G250272

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received July 25, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

### Sample ID Cross Reference

CRA  
GW-072401-485025-JS-002

STL  
A1G250272-001

Aqua Tech  
MEL01-09354

DUPLICATE OF:

GW-072401-485025-JS-001  
AKS  
9/13/01

  
Amy McCormick  
Project Manager



**- CERTIFICATE OF ANALYSIS -**

**Client #:** I0467

**Report Date:** 24-Aug-01

SIL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

**Phone:** (330) 497-9396 **Ext:**  
**FAX:** (330) 497-0772

**Attn:**

**Our Lab#:** MEL01-09354

**Your Sample ID:** A1G250272-1

**Sample Logged In:** 7/30/01

**Sample Source:** SDWA/WIP's

**Sample Type:** Water

**Client Project #:**

**Project #:**

**Date Submitted to Lab:** 7/26/2001

**PO#:** SR032331

**- COLLECTION INFORMATION -**

**Date/Time/By:** 7/24/01

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
	SH	7/30/01	8/7/01		
	<b>CAS Number</b>	<b>Parameter</b>			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	83469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

**--- Surrogate Recoveries ---**

Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09354	508	Decachlorobiphenyl (Surr)	66 %R *	70	130
		low surrogate recovery			
MEL01-09354	508	Tetrachloro-m-xylene (Surr)	78 %R	70	130

*as data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Wiseman, August 20, 2001*

**End of Report**

*as data not reported as is without qualification (URS 9-13-c1)*

**Report Approved By:**

**Wade T. DeLong**

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis are for the parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

**Your Sample ID:** A1G250272-1

**Lab Number** MEL01-09354

# CRA

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIP TO (Laboratory name):

ATEL c/o STL - North Canton

## CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:

13968

PROJECT NAME:

GM - Bedford

SAMPLER'S SIGNATURE:

*Jessica Sck*

PRINTED NAME:

Jessica Sck

No. OF CONTAINERS

PARAMETERS

REMARKS

SEQ. No.

DATE

TIME

SAMPLE No.

SAMPLE MATRIX

No. OF CONTAINERS

PARAMETERS

REMARKS

1

7/24/01

11:05

GW-072401-485025-JS-002

USE 1

2

X

REMARKS

TOTAL NUMBER OF CONTAINERS 2

RELINQUISHED BY:

①

DATE: 7/24/01

TIME: 7:00

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT: Fed Ex

AIR BILL No.

White  
Yellow  
Pink  
Goldenrod

-Fully Executed Copy  
-Receiving Laboratory Copy  
-Shipper Copy  
-Sampler Copy

SAMPLE TEAM:

Jessica Sck

RECEIVED FOR LABORATORY BY:

*[Signature]*

DATE: 7-25-01 TIME: 0915

08420

\*Ref. July 2001 OAPP  
\*STAT-2 WK Final Report  
\*CRA Contact = Paul Wiseman



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1G250271

REC'D CRA  
AUG 28 2001  
CRA SD 92

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
11100 Metro Airport Center Dr.  
Suite 160  
Romulus, MI 48174

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A1G250271

SEVERN TRENT LABORATORIES, INC. Name: GM-T-Bedford Place

#### Description

Event: GW Supply Well Su

Samples: 1 (7/29-01)

Analysis: PCB

Amy L. McCormick  
Project Manager

TAT: 2wk

Lab: ATEL / STL

Checked Against Preliminary Data: \_\_\_\_\_

Date: 8/29/01 Init: MS

August 27, 2001

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

## CASE NARRATIVE

AIG250271

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received July 25, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

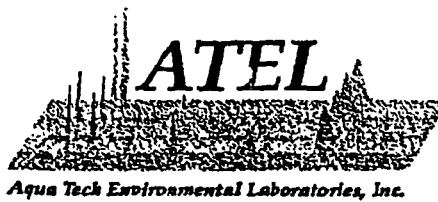
### Sample ID Cross Reference

CRA  
GW-072401-620013-LM-001

STL  
AIG250271-001

Aqua Tech  
MEL01-09356

  
Amy McCormick  
Project Manager



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467  
 STL North Canton  
 4101 Shuffel Dr NW  
 N Canton, OH 44720

Report Date: 24-Aug-01

Phone: (330) 497-9396 Ext:  
 FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09356  
 Date Logged In: 7/30/01  
 Sample Type: Water  
 Project #:

Your Sample ID: A1G250271-1  
 Sample Source: SDWA/WTP's  
 Client Project #:  
 Date Submitted to Lab: 7/26/2001 PO#: SR032331

**- COLLECTION INFORMATION -**

Date/Time/By: 7/24/01

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
	SH	7/30/01	8/7/01		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		1.1 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09356	508	Decachlorobiphenyl (Surr)	68 %R *	70	130
		low surrogate recovery			
MEL01-09356	508	Tetrachloro-m-xylene (Surr)	110 %R	70	130

*SE data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Niedman, August 30, 2001*

End of Report

*SE data are reported as is without qualification (WKS 9-13-01)*

Report Approved By:

*Wade T. DeLong*  
 Wade T. DeLong

*\*\*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).*

Your Sample ID: A1G250271-1

Lab Number MEL01-09356

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9833

SHIPPER'S (Laboratory Name):

ATEL c/o STL-North Canton

REFERENCE NUMBER:

13968

PROJECT NAME:

GM-Bedford

**CHAIN OF CUSTODY RECORD**

SAMPLER'S SIGNATURE: *Lisa Meoli*

PRINTED NAME: LISA MEOLI

PARAMETERS

No. OF CONTAINERS

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
1	7/24/01	1748	GW-073401-620013-LM-001	Water	2	D2-P20(58)	

\*Ref. July 2001 QAPP  
\*TAT=2WK Final Report  
\*CRA Contact=Paul W. Johnson

TOTAL NUMBER OF CONTAINERS 2

RELINQUISHED BY: *Lisa Meoli*

DATE: 7/24/01  
TIME: 2000

RECEIVED BY: ②

DATE: TIME:

RELINQUISHED BY: ②

DATE: TIME:

RECEIVED BY: ③

DATE: TIME:

RELINQUISHED BY: ③

DATE: TIME:

RECEIVED BY: ④

DATE: TIME:

METHOD OF SHIPMENT: Fed Ex

AIR BILL No.

White -Fully Executed Copy  
Yellow -Receiving Laboratory Copy  
Pink -Shipper Copy  
Goldenrod -Sampler Copy

SAMPLE TEAM:  
*L. MEOLI*

RECEIVED FOR LABORATORY BY:

DATE: 7-25-01 TIME: 0915

08421



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT

REC'D CRA  
AUG 28 1  
CRA SDG 3

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1G260192

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
11100 Metro Airport Center Dr.  
Suite 160  
Romulus, MI 48174

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A1G260192

SEVERN TRENT LABORATORIES, INC. Name: GMPT - Bedford Plant

#### Description

Event: GW - Supply Well Survey

Samples: 1-W (7/24-01)

Analysis: PCB

TAT: 2wk

Lab: ATL / STL

Checked Against Preliminary Data:

Date: 8/29/01 Init: NBC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

Amy L. McCormick  
Project Manager

August 27, 2001

## CASE NARRATIVE

A1G260192

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received July 26, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

### Sample ID Cross Reference

CRA  
GW-072401-115012-CM-001

STL  
A1G260192-001

Aqua Tech  
MEL01-09498

  
Amy McCormick  
Project Manager



**- CERTIFICATE OF ANALYSIS -**

**Client #:** I0467  
 STL North Canton  
 4101 Shuffel Dr NW  
 N Canton, OH 44720

**Report Date:** 24-Aug-01

**Phone:** (330) 497-9396 **Ext:**  
**FAX:** (330) 497-0772

**Attn:**

**Our Lab#:** MEL01-09498  
**Date Logged In:** 8/1/01  
**Sample Type:** Water  
**Project #:**

**Your Sample ID:** A1G260192-1  
**Sample Source:** SDWA/WTP's  
**Client Project #:**  
**Date Submitted to Lab:** 7/31/2001 **PO#:** SR032355

**- COLLECTION INFORMATION -**

**Date/Time/By:** 7/24/01

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
	SH	7/31/01	8/7/01		
	<b>CAS Number</b>	<b>Parameter</b>		<b>Result</b>	<b>Typical Report Limit</b>
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09498	508	Decachlorobiphenyl (Surr)	63 %R *	70	130
		Low surrogate recovery			
MEL01-09498	508	Tetrachloro-m-xylene (Surr)	117 %R	70	130

*These data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Witzman, August 30, 2001* **End of Report**

*These data are reported as is without qualification (AKS 9-13-01)*

**Report Approved By:** Wade T. DeLong  
 Wade T. DeLong

\*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

**Your Sample ID:** A1G260192-1

**Lab Number** MEL01-09498

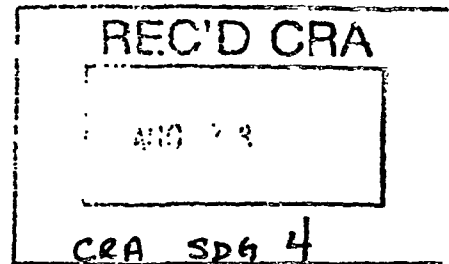




STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fac: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT



PROJECT NO. 13968

GM-BEDFORD

Lot #: A1G260193

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
11100 Metro Airport Center Dr.  
Suite 160  
Romulus, MI 48174

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A1G260193

SEVERN TRENT LABORATORIES, INC. Name: GMPT - Bedford Plant

#### Description

Event: GW-Supply Well Survey

Samples: 1-w (7/25-01)

Analysis: PCB

Amy L. McCormick  
Project Manager

TAT: 2WK

Lab: ATEL/STL

Checked Against Preliminary Data:

Date: 8/29/01 Init.: MSC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

August 27, 2001

## **CASE NARRATIVE**

AIG260193

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received July 26, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

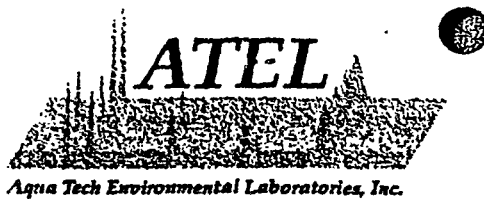
### **Sample ID Cross Reference**

**CRA**  
**GW-072501-216012-LM-001**

**STL**  
**AIG260193-001**

**Aqua Tech**  
**MEL01-09499**

  
**Amy McCormick**  
**Project Manager**



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 24-Aug-01

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attu:

Our Lab#: MEL01-09499  
Date Logged In: 8/1/01  
Sample Type: Water  
Project #:

Your Sample ID: A1G260193-1  
Sample Source: SDWA/WTP's  
Client Project #:  
Date Submitted to Lab: 7/31/2001 PO#: SR032356

**- COLLECTION INFORMATION -**

Date/Time/By: 7/25/01

Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
	SH	7/31/01	8/7/01		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

**-- Surrogate Recoveries --**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09499	508	Decachlorobiphenyl (Surr)	56 %R *	70	130
		Low surrogate recovery			
MEL01-09499	508	Tetrachloro-m-xylene (Surr)	106 %R	70	130

*These data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Wiseman, August 30, 2001*

*End of Report*

*These data are reported as is without qualification* Report Approved By: Wade T. DeLong  
(WKS 9-13-01)

Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).*

Your Sample ID: A1G260193-1

Lab Number MEL01-09499

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

*ATEL C/O str - North Canton*

REFERENCE NUMBER:

*13968*

PROJECT NAME:

*GM-BED FORD*

**CHAIN OF CUSTODY RECORD**

SAMPLER'S SIGNATURE:

*Lisa Meoli*

PRINTED NAME:

*LISA Meoli*

No. OF CONTAINERS

PARAMETERS

*DW-POB(50)*

REMARKS

SEQ. No. DATE TIME SAMPLE No. SAMPLE MATRIX

*1 7/25/01 1040 GW-072501-216012-1M-001 H<sub>2</sub>O 2*

TOTAL NUMBER OF CONTAINERS *2*

*\*ref. July 2001 OAPP  
\*STAT = JWR Final Report  
\*KOC Contact - Paul Wiseman*

RELINQUISHED BY:

① *[Signature]*

DATE: *7/25/01*  
TIME: *1700*

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:  
TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:  
TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT: *FedEx*

AIR BILL No. *827443559041*

White - Fully Executed Copy  
Yellow - Receiving Laboratory Copy  
Pink - Shipper Copy  
Gold - Sampler Copy

SAMPLE TEAM:

*L. Meoli*

RECEIVED FOR LABORATORY BY:

*Anne Sanders*

DATE: *7/26/01* TIME: *920*

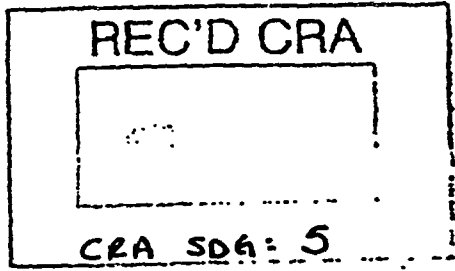
*70453*



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT



PROJECT NO. 13968  
GM-BEDFORD  
Lot #: A1G270178

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
11100 Metro Airport Center Dr.  
Suite 160  
Romulus, MI 48174

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A1G270178

SEVERN TRENT LABORATORIES, INC Name: GMPT-Redford Plant

#### Description

Event: GW-Supply Well Survey

Samples: 1W - (7/26-01)

Analysis: PCB

*Amy McCormick*

Amy L. McCormick  
Project Manager

TAT: 2wk

Lab: ATL/STL

Checked Against Preliminary Data:

Date: 8/29/01 Init: MSC

August 27, 2001

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

## CASE NARRATIVE

A1G270178

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received July 27, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

### Sample ID Cross Reference

CRA  
GW-072601-445014-JS-001

STL  
A1G270178-001

Aqua Tech  
MEL01-09497

  
Amy McCormick  
Project Manager



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 24-Aug-01

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09497

Your Sample ID: AIG270178-1

Date Logged In: 8/1/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 7/31/2001

PO#: SR032397

**- COLLECTION INFORMATION -**

Date/Time/By: 7/26/01

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	SH	7/31/01	8/7/01		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09497	508	Decachlorobiphenyl (Surr)	66 %R *	70	130
		Low surrogate recovery			
MEL01-09497	508	Tetrachloro-m-xylene (Surr)	106 %R	70	130

GC data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Kretzman, August 30, 2001

End of Report

GC data are reported as is without qualification  
(WKS 9-13-01)

Report Approved By:

*Wade T. DeLong*  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

Your Sample ID: AIG270178-1

Lab Number MEL01-09497

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL c/o 57L - North Canton

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

13968

PROJECT NAME:

GM - Bedford

SAMPLER'S SIGNATURE:

*[Signature]*

PRINTED NAME:

Jessica Seck

No. OF CONTAINERS

PARAMETERS

*[Handwritten: GW-173(518)]*

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
1	7/16/01	12:10	GW-0726001-445014-33-001	Water	2	<i>[Handwritten: GW-173(518)]</i>	

\* Ref. July 2001 RAPP  
\* TAT = 2 WK Final Report  
\* CRA Contact = Paul Wisem

TOTAL NUMBER OF CONTAINERS: 2

RELINQUISHED BY: ① <i>[Signature]</i>	DATE: 7/16/01	RECEIVED BY: ② _____	DATE: _____
	TIME: 1700		TIME: _____
RELINQUISHED BY: ② _____	DATE: _____	RECEIVED BY: ③ _____	DATE: _____
	TIME: _____		TIME: _____
RELINQUISHED BY: ③ _____	DATE: _____	RECEIVED BY: ④ _____	DATE: _____
	TIME: _____		TIME: _____

METHOD OF SHIPMENT: Fed Ex AIR BILL No. 827 443 559 030

- White - Fully Executed Copy
- Yellow - Receiving Laboratory Copy
- Pink - Shipper Copy
- Green - Sampler Copy

SAMPLE TEAM:  
Jessica Seck

RECEIVED FOR LABORATORY BY:  
*[Signature]*  
1E7/27/01 TIME: 940/A



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT

REC'D CRA  
AUG 28 2001  
CRA SDG 6

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1H010237

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
11100 Metro Airport Center Dr.  
Suite 160  
Romulus, MI 48174

SEVERN TRENT LABORATORIES, INC.

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A1H0102

Name: GMP-Bedford Plan

#### Description

Event: GW - Supply Well Sum

Samples: 1-w (7/31-01)

Analysis: PCB

TAT: 2wk

Lab: ATEL/STL

Checked Against Preliminary Data:

Date: 8/28/01 Init: MC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

Amy L. McCormick  
Project Manager

August 27, 2001

## CASE NARRATIVE

AIH010237

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received August 1, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

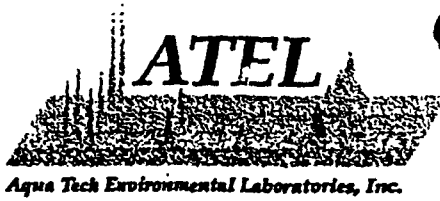
### Sample ID Cross Reference

CRA  
GW-073101-B809012-JS-001

STL  
AIH010237-001

Aqua Tech  
MEL01-09629

  
Amy McCormick  
Project Manager



**- CERTIFICATE OF ANALYSIS -**

Client #: 10467  
 STL North Canton  
 4101 Shuffel Dr NW  
 N Canton, OH 44720

Report Date: 24-Aug-01

Phone: (330) 497-9396 Ext:  
 FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09629

Your Sample ID: A1H010237-1

Date Logged In: 8/3/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 8/2/2001

PO#: SR032491

**- COLLECTION INFORMATION -**

Date/Time/By: 7/31/01

KPA Method	Analyst	Prep Date	Analysis Date	Result	Qualitative Method	Typical Report Limit
	SH	8/3/01	8/13/01			
	CAS Number	Parameter				
	12674-11-2	Aroclor 1016		<0.08 ug/l		0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l		0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l		0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l		0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l		0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l		0.1

**-- Surrogate Recoveries --**

QC Lab#	KPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09629	508	Decachlorobiphenyl (Surr)	42 %R *	70	130
		Low surrogate recovery			
MEL01-09629	508	Tetrachloro-m-xylene (Surr)	74 %R	70	130

SE data has been reviewed and validated as directed by CEA's Senior Chemist - Paul Westman, August 30, 2001

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

UJ - MS added next to the result column are defined as follows:

UJ - The report limit identified is qualified as an approximate value (MS 9-13-01)

Your Sample ID: A1H010237-1

Lab Number MEL01-09629

CRA

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIP TO (Lab Name):

ATEL C/O STL - North Canton

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:

13908

PROJECT NAME:

GM - Bedford

SAMPLER'S  
SIGNATURE:

*Jessica Sack*

PRINTED  
NAME:

Jessica Sack

PARAMETERS

No. of  
CONTAINERS

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. of CONTAINERS	PARAMETERS	REMARKS
1	7/31/01	16:45	GW-073101-B809012-JS-001	Water	2	X 707-7021508	

\*Ref. July 2001 QAPP  
STAT=2 WK Final Report  
FORMA Contact - Paul Haseman

TOTAL NUMBER OF CONTAINERS 2

RELINQUISHED BY: ① <i>Jessica Sack</i>	DATE: <u>7/31/01</u> TIME: <u>16:45</u>	RECEIVED BY: ② <i>Lisa Meali</i>	DATE: <u>7/31/01</u> TIME: <u>17:15</u>
RELINQUISHED BY: ② <i>[Signature]</i>	DATE: <u>7/31/01</u> TIME: <u>2005</u>	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex

AIR BILL No. 827443559020

- White - Fully Executed Copy
- Yellow - Receiving Laboratory Copy
- Pink - Shipper Copy
- Goldenrod - Sampler Copy

SAMPLE TEAM:  
Jessica Sack  
Lisa Meali

RECEIVED FOR LABORATORY BY:  
[Signature]  
DATE: 8-1-01 TIME: 0945  
08417



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

**ANALYTICAL REPORT**

REC'D CRA  
AUG 28  
CRA SOH: 7A

PROJECT NO. 13968

GM BEDFORD

Lot #: A1H020223

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
11100 Metro Airport Center Dr.  
Suite 160  
Romulus, MI 48174

**ORIGINAL ANALYTICAL REPORT**

Project#: 13968 Lab#: A1H020223

Name: GMPT-Bedford Plant

SEVERN TRENT LABORATORIES, INC.

**Description**

Event: GW-Supply Well Survey

Sampler: 1-W (B/I-01)

Analysis: PCB

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

TAT: 2wk

Lab: ATEL / STL

Checked Against Preliminary Data:

Date: 8/29/01 Init.: MC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

August 27, 2001

## CASE NARRATIVE

A1H020223

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received August 2, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

— Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

### Sample ID Cross Reference

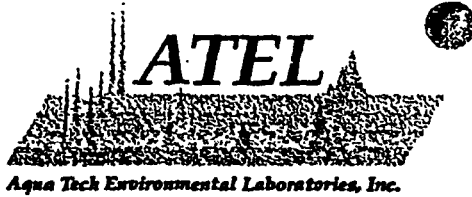
CRA  
GW-080101-411019-JS-001

STL  
A1H020223-001

Aqua Tech  
MEL01-09741



Amy McCormick  
Project Manager



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 24-Aug-01

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09741

Your Sample ID: A1H020223-1 W/ MS/MSD

Rate Logged In: 8/7/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 8/3/2001

PO#: SR032521

**- COLLECTION INFORMATION -**

Date/Time/By: 8/1/01

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
	SH	8/6/01	8/13/01		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09741	508	Decachlorobiphenyl (Surr)	48 %R *	70	130
		Low surrogate recovery			
MEL01-09741	508	Tetrachloro-m-xylene (Surr)	77 %R	70	130

*SE data have been reviewed and validated by CRA's S as directed by CRA's Senior Chemist. End of Report  
Paul Wiseman, August 30, 2001*

*SE data are reported as is without qualification  
(WKS 9-13-01)*

Report Approved By:

*Wade T. DeLong*  
Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).*

Your Sample ID: A1H020223-1 W/ MS/MSD

Lab Number MEL01-09741

**CRA**

CONESTOGA-ROYERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIP TO (Labor Name):

*ATEZ c/o 3TL - North Canton*

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

*13968*

PROJECT NAME:

*GM Bedford*

SAMPLER'S SIGNATURE:

*Jessica Seck*

PRINTED NAME:

*Jessica Seck*

PARAMETERS

*IN PCB(SPB)*

REMARKS

SEQ. No.

DATE

TIME

SAMPLE No.

SAMPLE MATRIX

No. OF CONTAINERS

*1*

*8/1/01*

*12:22*

*BW-080101-411019-JS-001*

*Water*

*6*

*X*

*\*Extra Volume included  
05/150*

*\*Ref. July 2001 QACP  
\*TAT = 2 WK Final Report  
\*CRA Contact = Paul Wiseman*

TOTAL NUMBER OF CONTAINERS *6*

RELINQUISHED BY:

DATE: *8/1/01*

RECEIVED BY:

DATE: *8/1/01*

TIME: *14:30*

TIME: *14:30*

RELINQUISHED BY:

DATE: *8/1/01*

RECEIVED BY:

DATE:

TIME: *17:00*

TIME:

RELINQUISHED BY:

DATE:

RECEIVED BY:

DATE:

TIME:

TIME:

METHOD OF SHIPMENT: *Fed Ex*

AIR BILL No. *827443559019*

White - Fully Executed Copy  
Yellow - Receiving Laboratory Copy  
Pink - Shipper Copy  
Goldenrod - Sampler Copy

SAMPLE TEAM:

*Jessica Seck*  
*Chris Meincke*

RECEIVED FOR LABORATORY BY:

*Ann Sanders*  
DATE: *8/2/01* TIME: *9:30AM*

08414



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT

REC'D CRA  
AUG 28  
CRA SD 4 78:

PROJECT NO. 13968

GM BEDFORD

Lot #: A1H020224

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
11100 Metro Airport Center Dr.  
Suite 160  
Romulus, MI 48174

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A1H020224

SEVERN TRENT LABORATORIES, INC. Name: GM-T-Bedford Plant

#### Description

Event: GW-Supply Well Survey

Samples: 1-W (B)1-002

Analysis: PCB

*Amy McCormick*  
Amy L. McCormick  
Project Manager

TAT: 2 wk

Lab: ATEL / STL

Checked Against Preliminary Data:

Date: 8/29/01 Init: arc

August 27, 2001

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

## CASE NARRATIVE

A1H020224

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received August 2, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

### Sample ID Cross Reference

CRA  
GW-080101-411019-JS-002

STL  
A1H020224-001

Aqua Tech  
MEL01-09742

*DUPLICATE OF:*

*GW-080101-411019-JS-001*

*WKS 9-13-01*

  
Amy McCormick  
Project Manager



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 24-Aug-01

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09742

Your Sample ID: A1H020224-1

Date Logged In: 8/7/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 8/3/2001

PO#: SR032521

**- COLLECTION INFORMATION -**

Date/Time/By: 8/1/01

Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
	SH	8/6/01	8/13/01		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09742	508	Decachlorobiphenyl (Surr)	46 %R *	70	130
		Low surrogate recovery			
MEL01-09742	508	Tetrachloro-m-xylene (Surr)	80 %R	70	130

*data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Wiseman, August 30, 2001*

*End of Report*

*data not reported as is without qualification (AKS 9-13-01)*

Report Approved By:

*Wade T. DeLong*  
Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).*

Your Sample ID: A1H020224-1

Lab Number MEL01-09742

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIP TO (Laboratory Name):  
*ATEL c/o 312-North Canton*

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:  
*15968*

PROJECT NAME:  
*Gri Bedford*

SAMPLER'S SIGNATURE: *Jessica Seck* PRINTED NAME: *Jessica Seck*

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS		REMARKS
1	8/1/01	12:22	GW-080101-411019-JS-002	Water	2	ADW/PB(500)		

TOTAL NUMBER OF CONTAINERS 2

*\*Ref. July 2001 DAPP  
\*ATTN: W/K Final Report  
\*CRA Contact = Paul Wiseman*

RELINQUISHED BY: ① <u><i>Jessica Seck</i></u>	DATE: <i>8/1/01</i>	RECEIVED BY: ② <u><i>[Signature]</i></u>	DATE: <i>8/1/01</i>
TIME: <i>11:50</i>	TIME: <i>14:30</i>	DATE: <i>8/1/01</i>	DATE: <i>8/1/01</i>
RELINQUISHED BY: ② <u><i>[Signature]</i></u>	DATE: <i>8/1/01</i>	RECEIVED BY: ③ <u>                                </u>	DATE: <i>                        </i>
TIME: <i>17:00</i>	TIME: <i>                        </i>	DATE: <i>                        </i>	DATE: <i>                        </i>
RELINQUISHED BY: ③ <u>                                </u>	DATE: <i>                        </i>	RECEIVED BY: ④ <u>                                </u>	DATE: <i>                        </i>
TIME: <i>                        </i>	TIME: <i>                        </i>	DATE: <i>                        </i>	DATE: <i>                        </i>

METHOD OF SHIPMENT: *Fed Ex* AIR BILL No. *827443559019*

White -Fully Executed Copy	SAMPLE TEAM: <u><i>Jessica Seck</i></u> <u><i>Chris Meincke</i></u>	RECEIVED FOR LABORATORY BY: <u><i>Anne Sanders</i></u>
Yellow -Receiving Laboratory Copy		DATE: <u><i>8/2/01</i></u> TIME: <u><i>930</i></u>
Pink -Shipper Copy		08416
Goldenrod -Sampler Copy		



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

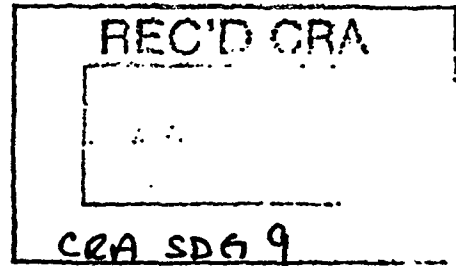
Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

# ANALYTICAL REPORT

PROJECT NO. 13968

GM-BEDFORD

Lot #: ALH030232



Paul Wiseman

Conestoga Rovers & Assoc., Inc  
11100 Metro Airport Center Dr.  
Suite 160  
Romulus, MI 48174

## ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: ALH030232

SEVERN TRENT LABORATORIES, INC. Name: GMPT - Bedford Plant

### Description

Event: GW - Supply Well Survey

Samples: 1-W (8/2-01)

Analysis: PCB

TAT: 2W/C

Lab: ATGL/STL

Checked Against Preliminary Data:

Date: 8/25/01 Init.: MAC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

Amy L. McCormick  
Project Manager

August 27, 2001

## CASE NARRATIVE

AIH030232

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received August 3, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

### Sample ID Cross Reference

CRA  
GW-080201-406017-CM-001

STL  
AIH030232-001

Aqua Tech  
MEL01-09810

  
Amy McCormick  
Project Manager



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 24-Aug-01

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Atttn:

Our Lab#: MEL01-09810

Your Sample ID: A1H030232-1

Date Logged In: 8/8/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 8/7/2001

PO#: SR032560

**- COLLECTION INFORMATION -**

Date/Time/By: 8/2/01

Method	Analyst	Prep Date	Analysis Date		
	SH	8/8/01	8/11/01		
	<b>CAS Number</b>	<b>Parameter</b>	<b>Result</b>	<b>Typical Report Limit</b>	
	12674-11-2	Aroclor 1016	<0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	<0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	<0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	<0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	<0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	<0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	<0.10 ug/l	0.1	

**-- Surrogate Recoveries --**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09810	508	Decachlorobiphenyl (Surr)	41 %R *	70	130
		Low surrogate recovery			
MEL01-09810	508	Tetrachloro-m-xylene (Surr)	78 %R	70	130

*These data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Wiseman, August 30, 2001*

*End of Report*

*These data are reported as is without qualification (AMS 9-8-01)*

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

Your Sample ID: A1H030232-1

Lab Number MEL01-09810

# CRA

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL Old St. - North Canton

## CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:

139108

PROJECT NAME:

GWM-Redford

SAMPLER'S SIGNATURE: *C. Meinke*

PRINTED NAME: C. Meinke

PARAMETERS

*DAW-10/10/08*

REMARKS

SEQ. No. DATE TIME SAMPLE No.

SAMPLE MATRIX

NO. OF CONTAINERS

1 08/20/1300 GWM-080201-400017-41-001 WATER 2

TOTAL NUMBER OF CONTAINERS 2

REINQUISHED BY: *[Signature]*

DATE: 8/21/08  
TIME: 1:00

RECEIVED BY: ②

DATE: \_\_\_\_\_  
TIME: \_\_\_\_\_

REINQUISHED BY: ②

DATE: \_\_\_\_\_  
TIME: \_\_\_\_\_

RECEIVED BY: ③

DATE: \_\_\_\_\_  
TIME: \_\_\_\_\_

REINQUISHED BY: ③

DATE: \_\_\_\_\_  
TIME: \_\_\_\_\_

RECEIVED BY: ④

DATE: \_\_\_\_\_  
TIME: \_\_\_\_\_

METHOD OF SHIPMENT: Fed Ex

AIR BILL No. 827443559008

White - Fully Executed Copy

Yellow - Receiving Laboratory Copy

Pink - Shipper Copy

Gold - Sampler Copy

SAMPLE TEAM: C. Meinke

RECEIVED FOR LABORATORY BY: *[Signature]*

1. Meeli

8/21/08 TIME: 9:45

2441

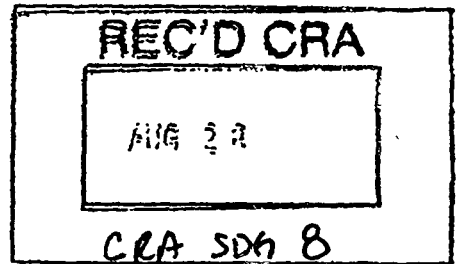
\*Ref. July 2001 RAPP  
\*RPT = 7th Final Report  
\*OEA Contact - Paul Wilson



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

# ANALYTICAL REPORT



PROJECT NO. 13968

GM-BEDFORD

Lot #: ALH030234

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
11100 Metro Airport Center Dr.  
Suite 160  
Romulus, MI 48174

## ORIGINAL ANALYTICAL REPORT

SEVERN TRENT LABORATORIES, INC.

Project#: 13968 Lab#: 1AH03023

Name: GMPT - Bedford plant

### Description

Event: GW - Supply Well Serv

Samples: 1 W (1/2-01)

Analysis: PCB

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

TAT: 2WK

Lab: ATGL / STL

Checked Against Preliminary Data:

Date: 8/29/01 Init.: MPC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

August 27, 2001

## CASE NARRATIVE

AIH030234

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received August 3, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

### Sample ID Cross Reference

CRA  
GW-080201-1537002-CM-001

STL  
AIH030234-001

Aqua Tech  
MEL01-09811

  
Amy McCormick  
Project Manager



**- CERTIFICATE OF ANALYSIS -**

**Client #:** I0467

**Report Date:** 14-Aug-01

**STL North Canton**

**4101 Shuffel Dr NW**

**N Canton, OH 44720**

**Phone:** (330) 497-9396 **Ext:**

**FAX:** (330) 497-0772

*Attn:*

**Our Lab#:** MEL01-09811

**Your Sample ID:** AIH030234

**Date Logged In:** 8/8/01

**Sample Source:** SDWA/WTP's

**Sample Type:** Water

**Client Project #:**

**Project #:**

**Date Submitted to Lab:** 8/7/2001

**PO#:** SR032561

**- COLLECTION INFORMATION -**

**Date/Time/By:** 8/2/01

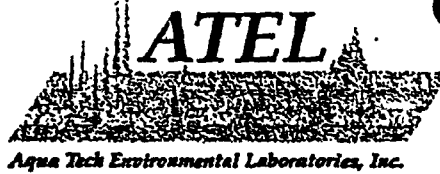
EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
	SH	8/8/01	8/11/01		
	<b>CAS Number</b>	<b>Parameter</b>			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1
EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
	<b>CAS Number</b>	<b>Parameter</b>			
		Level IV QC Package			

*These data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Kuzman, August 30, 2001*

*These data are reported as is without qualification (AALS 9-13-01)*

**Your Sample ID:** AIH030234

**Lab Number** MEL01-09811



- CERTIFICATE OF ANALYSIS -

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09811	508	Decachlorobiphenyl (Surr)	55 %R *	70	130
		Low surrogate recovery			
MEL01-09811	508	Tetrachloro-m-xylene (Surr)	84 %R	70	130

End of Report

Report Approved By: Wade T. DeLong  
Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).*

# CRA

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

*ATEL 40 SL - North Canton*

## CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:

*13968*

PROJECT NAME:

*GM-Bedford*

SAMPLER'S SIGNATURE:

*[Signature]*

PRINTED NAME:

*Chris Meincke*

No. OF CONTAINERS

PARAMETERS

*X GW-PUR(BB)*

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
1	8-2-01	0830	GW-080201-1537002-CM-00	WATER	2	X	

*\* Ref July 2001 QAPP  
\* TRT = ZWC Final Report  
\* CRA Contract = Paul Wiseman*

TOTAL NUMBER OF CONTAINERS *2*

RELINQUISHED BY: ① <i>[Signature]</i>	DATE: <i>8/2/01</i> TIME: <i>1700</i>	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: *FED EX* AIR BILL No. *827443559008*

White - Fully Executed Copy Yellow - Receiving Laboratory Copy Plr - Shipper Copy Golue d - Sampler Copy	SAMPLE TEAM: <i>Chris Meincke</i> <i>Lisa Moo</i>	RECEIVED FOR LABORATORY BY: <i>Anne Sander</i> DATE: <i>8/3/01</i> TIME: <i>9:45 AM</i>	<i>22440</i>
---	---	---	--------------



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT

REC'D CRA  
AUG 23  
CRA SDG 10

PROJECT NO. 13968

GM-BEDFORD

Lot #: ALH030171

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
11100 Metro Airport Center Dr.  
Suite 160  
Romulus, MI 48174

ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: ALH030171

Name: GMI-Bedford Plant

SEVERN TRENT LABORATORIES, INC.

Description

Event: GW-Supply Well Survey

Samples: (B/2-01)-1W

Analysis: PCB

*Amy L. McCormick*  
Amy L. McCormick  
Project Manager

TAT: 2WK

Lab: ATGL / STL

Checked Against Preliminary Data:

Date: 8/29/01 Init: MSC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

August 27, 2001

## CASE NARRATIVE

AIH030171

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received August 3, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

### Sample ID Cross Reference

CRA  
GW-080201-1326007-LM-001

STL  
AIH030171-001

Aqua Tech  
MEL01-09812

  
Amy McCormick  
Project Manager



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 14-Aug-01

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09812

Your Sample ID: ~~A1H03017-1~~ <sup>A1H030171-1</sup> ~~LWS 913-01~~

Date Logged In: 8/8/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 8/7/2001

PO#: SR032549

**- COLLECTION INFORMATION -**

Date/Time/By: 8/2/01

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
	SH	8/8/01	8/11/01		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
	CAS Number	Parameter			
		Level IV QC Package			

*These data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Wierman, August 30, 2001*

*These data are reported as is without qualification (LWS 913-01)*

Your Sample ID: ~~A1H03017-1~~ <sup>A1H030171-1</sup> ~~LWS 913-01~~

Lab Number MEL01-09812



**- CERTIFICATE OF ANALYSIS -**

**-- Surrogate Recoveries --**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09812	508	Decachlorobiphenyl (Surr) Low surrogate recovery	45 %R *	70	130
MEL01-09812	508	Tetrachloro-m-xylene (Surr)	72 %R .	70	130

*End of Report*

Report Approved By: Wade T. DeLong  
Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).*

JN



**- CERTIFICATE OF ANALYSIS -**

**Client #:** 10467  
**STL North Canton**  
**4101 Shuffel Dr NW**  
**N Canton, OH 44720**

**Rec'd**  
**SEP 24 2001**

**Report Date: 19-Sep-01**

**Phone: (330) 497-9396 Ext:**  
**FAX: (330) 497-0772**

**Attn:**

**Our Lab#:** MEL01-09812  
**Date Logged In:** 8/8/01  
**Sample Type:** Water  
**Project #:**

**Your Sample ID:** AIH030171-1  
**Sample Source:** SDWA/WIP's  
**Client Project #:**  
**Date Submitted to Lab:** 8/7/2001  
**PO#:** SR032549

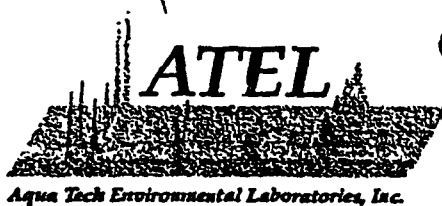
**- COLLECTION INFORMATION -**

**Date/Time/By:** 8/2/01

<b>EPA Method</b>	<b>Analyst</b>	<b>Prep Date</b>	<b>Analysis Date</b>	<b>Result</b>	<b>Typical Report Limit</b>
508	SH	8/8/01	8/11/01		
	<b>CAS Number</b>	<b>Parameter</b>			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1
<b>EPA Method</b>	<b>Analyst</b>	<b>Prep Date</b>	<b>Analysis Date</b>	<b>Result</b>	<b>Typical Report Limit</b>
	<b>CAS Number</b>	<b>Parameter</b>			
		Level IV QC Package			

**Your Sample ID:** AIH030171-1

**Lab Number** MEL01-09812



**- CERTIFICATE OF ANALYSIS -**

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09812	508	Decachlorobiphenyl (Surr) <i>Low surrogate recovery</i>	45 %R *	70	130
MEL01-09812	508	Tetrachloro-m-xylene (Surr)	72 %R	70	130

Report Approved By: Wade J. [Signature] *End of Report*

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.*

# CRA

CONESTOGA-ROVERS & ASSOCIATES  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL c/o 37L-North Canton

### CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:

13968

PROJECT NAME:

GM Beckford

SAMPLER'S SIGNATURE: *Lisa C Meoli*

PRINTED NAME: LISA C. MEOLI

NO. OF CONTAINERS

PARAMETERS

*(Diagonal hatching)*

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX
1	8/2/01	16:50	GW-080701-1326007-1-M01	Water

2

*(Diagonal hatching)*

*\*PA: July 2001 CRAPP*  
*\*TAB=2 Wks Final Report*  
*\*VOC Contact=Paul Wiseman*

TOTAL NUMBER OF CONTAINERS

2

RELINQUISHED BY: ① <i>[Signature]</i>	DATE: 8/2/01 TIME: 2000	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: *Fed EX*

AIR BILL No. 827443558994

White - Fully Executed Copy  
 Yellow - Receiving Laboratory Copy  
 Pink - Shipper Copy  
 Gold - Sampler Copy

SAMPLE TEAM:

*L. Meoli*  
*C. Meineke*

RECEIVED FOR LABORATORY BY:

*Aime Sanders*  
 DATE: 8/5/01 TIME: 9:45 AM

78431



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT

REC'D CRA  
AUG 28 2001  
CAA SDG II

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1H080204

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
11100 Metro Airport Center Dr.  
Suite 160  
Romulus, MI 48174

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A1H080204

Name: GMPT - Bedford Plant

SEVERN TRENT LABORATORIES, INC.

#### Description

Event: GW - Supply Well Survey

Samples: 1-W (8/7-01)

Analysis: PCB

*Amy McCormick*

Amy L. McCormick  
Project Manager

TAT: 2WK

Lab: ATFL / STL

Checked Against Preliminary Data:

Date: 8/29/01 Init: NBC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

August 27, 2001

## CASE NARRATIVE

AIH080204

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received August 8, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

— Preliminary results were provided to Paul Wiseman and Steve Carter on August 25, 2001.

### Sample ID Cross Reference

CRA  
GW-080701-330026-JS-001

STL  
AIH080204-001

Aqua Tech  
MEL01-09976



Amy McCormick  
Project Manager



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 24-Aug-01

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09976  
Date Logged In: 8/10/01  
Sample Type: Water  
Project #:

Your Sample ID: A1H080204-1  
Sample Source: SDWA/WTP's  
Client Project #:  
Date Submitted to Lab: 8/9/2001 PO#: SR032616

**- COLLECTION INFORMATION -**

Date/Time/By: 8/7/01

EPA Method	Analyst	Prep Date	Analysis Date	Qualifier Added	Result	Typical Report Limit
	SH	8/10/01	8/17/01			
	CAS Number	Parameter				
Results suspect due to low surrogate recovery, ok per client						
	12674-11-2	Aroclor 1016			<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221			<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232			<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242			<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248			<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254			<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260			<0.10 ug/l UJ	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09976	508	Decachlorobiphenyl (Surr)	19 %R *	70	130
		Low surrogate recovery			
MEL01-09976	508	Tetrachloro-m-xylene (Surr)	33 %R *	70	130
		Low surrogate recovery			

*all data has been reviewed and tabulated as directed by CRA's Senior Chemist - Paul Wrenn, August 30, 2001*  
*Notes added next to the result column are defined as follows:*  
 UJ - The report limit identified is qualified as an approximate value (LWS 9-13-01)

End of Report

Report Approved By: Wade T. DeLong  
 Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).*

Your Sample ID: A1H080204-1

Lab Number MEL01-09976

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

AREL Old Site - North Austin

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:  
139108

PROJECT NAME:  
GM-Belford

SAMPLER'S SIGNATURE:

*[Signature]*

PRINTED NAME:

Jessica Seck

SEQ. No.

DATE

TIME

SAMPLE No.

SAMPLE MATRIX

NO. OF CONTAINERS

PARAMETERS

REMARKS

1

8-7-01

11:31

GUJ-080701-330026-SS-001

UPPER

2

GM-001-TX

TOTAL NUMBER OF CONTAINERS

2

REINQUISHED BY:

*[Signature]*

REINQUISHED BY:

*[Signature]*

REINQUISHED BY:

*[Signature]*

REINQUISHED BY:

*[Signature]*

REINQUISHED BY:

*[Signature]*

METHOD OF SHIPMENT:

FEDX

AIR BILL No. 027443558983

White

Yellow

PI

Color

Fully Executed Copy

Receiving Laboratory Copy

Shipper Copy

Sampler Copy

SAMPLE TEAM:

Jessica Seck

RECEIVED FOR LABORATORY BY:

*[Signature]*

DATE: 8-8-01

TIME: 0940

08439

REC'D JULY 2001 OAPP  
BY THEZUK FROM REPORT  
\*MARCUS - BELLUSI

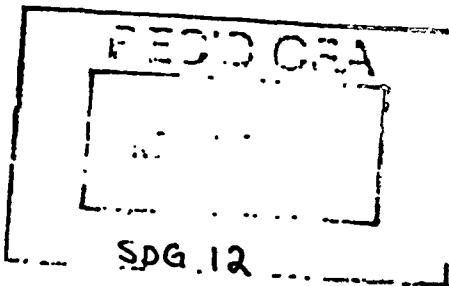
**SEVERN  
TRENT  
SERVICES**

STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

**ANALYTICAL REPORT**

PROJECT NO. 13968  
GM-BEDFORD  
Lot #: A11210104



Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC. ORIGINAL ANALYTICAL REPORT  
Project#: 13968 Lab#: A112K

Name: GMPT-Bedford Plant

**Description**

Event: GW-Supply Well Sur

Samples: 1W (1/4)

Analysis: PCB

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

TAT: 2WL

Lab: STL/ATEL

Checked Against Preliminary Data

Date: 12/10/01 Init: ABC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

November 28, 2001

# CASE NARRATIVE

AI1210104

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received September 18, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

## Sample ID Cross Reference

CRA  
GW-091401-8809012-LM-001

STL  
AI1210104-001

Aqua Tech  
MEL01-11628

B  
11/23  
12/16/01



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## CERTIFICATE OF ANALYSIS

Client #: I0467

Report Date: 08-Nov-01

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-11628

Your Sample ID: GW-091401-8809012-LM-001

Date Logged In: 9/19/01

Sample Source: SDWA/WIP's

Sample Type: Water

Client Project #: CRA

Project #:

Date Submitted to Lab: 9/18/2001

PO#: 13968 GM-Bedford

### - COLLECTION INFORMATION -

Date/Time/By: 9/14/2001 5:24 PM Lisa Meoli

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Lt
508	SEI	9/19/2001	9/25/2001		<i>Qual: Not Added</i>
	CAS Number	Parameter			
	Re-extraction performed out of hold time.				
	12674-11-2	Aroclor 1016		<0.08 ug/l	UJ
	11104-28-2	Aroclor 1221		<0.10 ug/l	UJ
	11141-16-5	Aroclor 1232		<0.10 ug/l	UJ
	53469-21-9	Aroclor 1242		<0.10 ug/l	UJ
	12672-29-6	Aroclor 1248		<0.10 ug/l	UJ
	11097-69-1	Aroclor 1254		<0.10 ug/l	UJ
	11096-82-5	Aroclor 1260		<0.10 ug/l	UJ

### -- Surrogate Recoveries --

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-11628	508	Decachlorobiphenyl (Surr)	32 %R *	70	130
		Low surrogate recovery			
MEL01-11628	508	Tetrachloro-m-xylene (Surr)	55 %R *	70	130
		Low surrogate recovery.			

*Exe data has been reviewed and validated as directed by CRA's senior chemist, Paul Wiseman, November 12, 2001*

End of Report

J - The report limit identified is qualified as an approximate value

Report Approved By: *Wade J. [Signature]*

*OKS 12/16/01*

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested.

Your Sample ID: GW-091401-8809012-LM-001

Lab Number MEL01-111

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999  
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CUNES A-KUYERS & ASSOCIATES  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933

ATEL CT STL - 10771 - Canton

REFERENCE NUMBER:

PROJECT NAME:

CHAIN OF CUSTODY RECORD

3468

GM-BEDFORD

SAMPLER'S SIGNATURE:

*[Handwritten Signature]*

PRINTED NAME:

LISA C. MEDLI

No. OF CONTAINERS

PARAMETERS

*[Diagonal lines and handwritten text: DU-PA(S)]*

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
1	9/14/01	1224	GW-091401-BSDA02-DM-001	WATER	2	11628 (A & B)	

\*Ref. July 2001 QAPP  
 \*TAT = 2 wk final report  
 \*CRA Contact = Paul D. [unclear]

TOTAL NUMBER OF CONTAINERS: 2

RELINQUISHED BY: ① <i>[Signature]</i> DATE: 9/14/01 TIME: 1500	RECEIVED BY: ② <i>[Signature]</i> DATE: 9-18-01 TIME: 3:33
RELINQUISHED BY: ② _____ DATE: _____ TIME: _____	RECEIVED BY: ③ _____ DATE: _____ TIME: _____
RELINQUISHED BY: ③ _____ DATE: _____ TIME: _____	RECEIVED BY: ④ _____ DATE: _____ TIME: _____

METHOD OF SHIPMENT: *[Handwritten]* AIR BILL No. 4410 4466 5184 9/14/01

White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy	SAMPLE TEAM: L. MEDLI	RECEIVED FOR LABORATORY BY: <i>[Signature]</i> DATE: 9-18-01 TIME: 4:00	08436
--	--------------------------	---	-------

**SEVERN  
TRENT  
SERVICES**

STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

**ANALYTICAL REPORT**

PROJECT NO. 13968  
GM-BEDFORD  
Lot #: A11210103

FEC'D CFA  
NOV 29  
SDG 13

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

**ORIGINAL ANALYTICAL REPORT**

Project#: 13968 Lab#: A11210

SEVERN TRENT LABORATORIES, INC Name: GMP - Bedford Place

**Description**

Event: GW - Supply Well S1

Sampler: 1w (9/15)

Analysis: PCB

*Amy McCormick*

Amy L. McCormick  
Project Manager

TAT: 2WK

Lab: STL/ATEL

Checked Against Preliminary Data:

Date: 12/10/01 Init: lvv

November 28, 2001

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

# CASE NARRATIVE

AI1210103

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received September 18, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

## Sample ID Cross Reference

CRA  
GW-091501-620013-LM-001

STL  
AI1210103-001

Aqua Tech  
MEL01-11627



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 10-Oct-01

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attac:

Our Lab#: MEL01-11627

Your Sample ID: GW-091501-620013-LM-001

Date Logged In: 9/19/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #: CRA

Project #:

Date Submitted to Lab: 9/18/2001

PO#: 13968 GM-Bedford

### - COLLECTION INFORMATION -

Date/Time/By: 9/15/2001 12:28 PM Lisa Meoli

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Lim
508	SH	9/19/2001	9/25/2001		
	CAS Number	Parameter		Result	Typical Report Lim
	12674-11-2	Aroclor 1016		<0.08 ug/l	0
	11104-28-2	Aroclor 1221		<0.10 ug/l	(
	11141-16-5	Aroclor 1232		<0.10 ug/l	(
	53469-21-9	Aroclor 1242		0.95 ug/l	(
	12672-29-6	Aroclor 1248		<0.10 ug/l	(
	11097-69-1	Aroclor 1254		<0.10 ug/l	(
	11096-82-5	Aroclor 1260		<0.10 ug/l	(

### --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-11627	508	Decachlorobiphenyl (Surr)	48 %R *	70	130
		Low surrogate recovery.			
MEL01-11627	508	Tetrachloro-m-xylene (Surr)	100 %R	70	130

These data have been reviewed and validated as directed by CRA's Senior Chemist,  
Paul Kizeman, Date November 12, 2001

End of Report

These data are reported as is without qualification  
WTS, 12/19/01

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.

Your Sample ID: GW-091501-620013-LM-001

Lab Number MEL01-116

8878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999  
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

LUNES A-KUYERS & ASSOCIATES  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933

AIFL UIC 51L - North Canton

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:  
13468

PROJECT NAME:  
GM-BEDFORD

SAMPLER'S SIGNATURE: Lisa C. Medli  
 PRINTED NAME: Lisa Medli

PARAMETERS: (Diagonal lines)

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
<u>1</u>	<u>9/15/01</u>	<u>1228</u>	<u>GM-091501-620013-LU-001</u>	<u>UPPER</u>	<u>2</u>	<u>(Diagonal lines)</u>	<u>11627 (A.G.)</u>

\*Ref. July 2001 OAPP  
 \*the 70K final report  
 \*CIA contract - [unclear]

TOTAL NUMBER OF CONTAINERS 2

RELINQUISHED BY: <u>1</u> <u>[Signature]</u>	DATE: <u>9/17/01</u> TIME: <u>1504</u>	RECEIVED BY: <u>2</u> <u>[Signature]</u>	DATE: <u>9-18-01</u> TIME: <u>5:33</u>
RELINQUISHED BY: <u>2</u> _____	DATE: _____ TIME: _____	RECEIVED BY: <u>3</u> _____	DATE: _____ TIME: _____
RELINQUISHED BY: <u>3</u> _____	DATE: _____ TIME: _____	RECEIVED BY: <u>4</u> _____	DATE: _____ TIME: _____

METHOD OF SHIPMENT: FED EX AIR BILL No. 4410 446 5194 9/18/01

White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy	SAMPLE TEAM: <u>L. Medli</u>	RECEIVED FOR LABORATORY BY: <u>S. Roach</u> DATE: <u>9-18-01</u> TIME: <u>4:00</u>	<u>08437</u>
--	---------------------------------	--	--------------

02

**SEVERN  
TRENT  
SERVICES**

STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

**ANALYTICAL REPORT**

PROJECT NO. 13968

GM-BEDFORD

Lot #: ALJ020104

RECEIVED  
NOV 29  
SDG 14

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC

**ORIGINAL ANALYTICAL REPORT**

Project#: 13968 Lab#: A-1502

Name: GMP - Bedford plant

**Description**

Event: GW - Supply Well Sus

Samples: 1W (10/1)

Analysis: PCA

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

TAT: 2PK

Lab: STL / ATCL

Checked Against Preliminary Data:

Date: 12/10/02 Init: rw

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

November 28, 2001

# CASE NARRATIVE

A1J020104

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received October 2, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

## Sample ID Cross Reference

CRA  
GW-100101-330026-LM-001

STL  
A1J020104-001

Aqua Tech  
MEL01-12609



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: 10467

Report Date: 22-Oct-01

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-12609

Your Sample ID: A1J020104-1

Date Logged In: 10/8/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 10/4/2001

PO#: SR033804

## - COLLECTION INFORMATION -

Date/Time/By: 10/1/01

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report La
508	SH	10/8/01	10/11/01		
	CAS Number	Parameter		Result	Typical Report La
	12674-11-2	Aroclor 1016		< 0.08 ug/l	
	11104-28-2	Aroclor 1221		< 0.10 ug/l	
	11141-16-5	Aroclor 1232		< 0.10 ug/l	
	53469-21-9	Aroclor 1242		< 0.10 ug/l	
	12672-29-6	Aroclor 1248		< 0.10 ug/l	
	11097-69-1	Aroclor 1254		< 0.10 ug/l	
	11096-82-5	Aroclor 1260		< 0.10 ug/l	

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-12609	508	Decachlorobiphenyl (Surr)	30 %R *	70	130
		LOW SURROGATE RECOVERY			
MEL01-12609	508	Tetrachloro-m-xylene (Surr)	71 %R	70	130

*These data have been reviewed and validated as directed by CEA's Senior Chemist,  
Paul Wiseman, November 12, 2001*

End of Report

*These data are reported as is without qualification* Report Approved By: Wade T. DeLong  
*WTS r/m/b*

Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.*

Your Sample ID: A1J020104-1

Lab Number MEL01-12

8615 Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

Hill C/O 12 North LaSalle

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:  
13968

PROJECT NAME:  
GM-Beedford

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: Lisa Neal

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
1	12/21/93	1430	GW-10101-330076-LH-C01	Water	6	<i>[Diagonal Lines]</i>	

*[Handwritten: DUPLICATE]*

\*Ref. July 2011 OARF  
\*STAT=2 wk Formal Report  
\*OSRA Contact=Paul Wisnik

TOTAL NUMBER OF CONTAINERS 6

RELINQUISHED BY: ① <i>[Signature]</i>	DATE: 12/21/93 TIME: 2000	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: *Fed Ex* AIR BILL No. *1111*

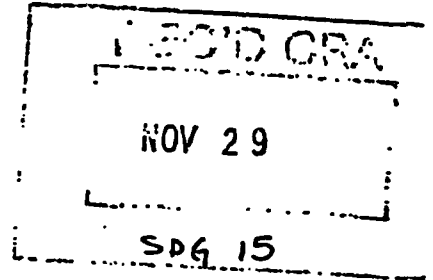
White -Fully Executed Copy Yellow -Receiving Laboratory Copy Pink -Shipper Copy Goldenrod -Sampler Copy	SAMPLE TEAM: <i>Lisa Neal</i>	RECEIVED FOR LABORATORY BY: <i>[Signature]</i> DATE: 12-2-01 TIME: 0800	08423
--	----------------------------------	---	-------



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961  
Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

# ANALYTICAL REPORT

PROJECT NO. 13968  
GM-BEDFORD  
Lot #: ALJ020103



Paul Wiseman

Comestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

## ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: ALJ020

Name: GMPT - Bedford Plant

### Description

Event: GW - Supply Well SW

Sample: 12/10/01

Analysis: PCB

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

TAT: 2wk

Lab: STL/ATEL

Checked Against Preliminary Data:

Date: 12/10/01 Init: hw

November 28, 2001

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

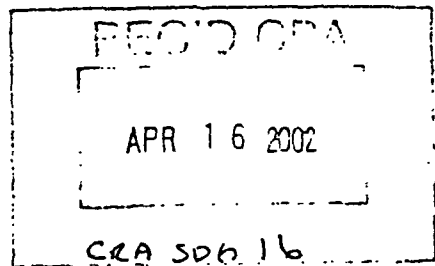
Comments: \_\_\_\_\_



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961  
Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-nc.com

# ANALYTICAL REPORT

PROJECT NO. 13968  
GM-BEDFORD  
Lot #: A2A300124



Paul Wiseman  
Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT  
Project#: 13968 Lab#: A2A300124

SEVERN TRENT LABORATORIES, INC.

Name: Bedford

Description

Event: Stream Inlet

Samples: 1-W (7/29-01)

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

TAT: 20K

Lab: STL / ATEL

Checked Against Preliminary Data:

Date: 4/16/02 Init.: LS

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

April 15, 2002

## CASE NARRATIVE

A2A300124

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received January 30, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on February 25, 2002.

### Sample ID Cross Reference

CRA  
GW-012902-202021-LM-001

STL  
A2A300124-001

Aqua Tech  
MEL02-01201



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 13-Feb-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-01201      Your Sample ID: A2A300124-1  
Date Logged In: 2/4/02      Sample Source: SDWA/WTP's  
Sample Type: Water      Client Project #:  
Project #:      Date Submitted to Lab: 2/1/2002      PO#: SR036248

### - COLLECTION INFORMATION -

Date/Time/By: 1/29/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	2/4/02	2/4/02		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	<0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	<0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	<0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	<0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	<0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	<0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	<0.10 ug/l	0.1	

### --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01201	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	44 %R *	70	130
MEL02-01201	508	Tetrachloro-m-xylene (Surr)	101 %R	70	130

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2A300124-1

Lab Number MEL02-01201

Laboratory: Aque Tech Environmental Labs  
PO BOX 436

Severn Trent Laboratories, Inc  
SAMPLE ANALYSIS REQUISITION  
Lab Request SR036248

Report Package: Expanded Deliverables

Need Analytical report 2002-02-06

MARION, OH 43301-0436

Client Code: 57787

Project Manager: AMY MCCORM K

<u>Sample I.D.</u>	<u>Work Order Number</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Analysis Required</u>
A2A300124-1	ETEWO	GW-012902-202021-LM-001	2002-01-29	508 PCB, AS Aroclors 01201
A2A300124-1 D	ETEWO	GW-012902-202021-LM-001	2002-01-29	
A2A300124-1 S	ETEWO	GW-012902-202021-LM-001	2002-01-29	

(AB001)

Need detection limit and analysis date included in report.

Shipping Method: COURIER

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: [Signature] Date/Time: 1-30-02 1100

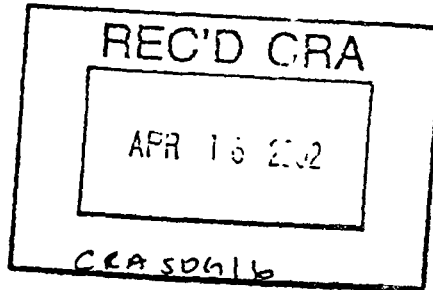
Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received for by: S. Reed Date/Time: 2-1-02

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

<b>CRA</b> CONESTOGA-ROVERS & ASSOCIATES 8615 W. Bryn Mawr Avenue Chicago, Illinois 60631 (773)380-9933				SHIPPED TO (Laboratory Name): <i>ATEL c/o STL-North Canton</i>			
				REFERENCE NUMBER: <i>139108</i>		PROJECT NAME: <i>GM-Batford</i>	
CHAIN OF CUSTODY RECORD							
SAMPLER'S SIGNATURE: <i>Lisa Meoli</i>			PRINTED NAME: <i>Lisa Meoli</i>				
PARAMETERS		<del>TABLE 2 (5/98)</del>					
REMARKS							
SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS		
1	1/29/02	1335	GW-012902-202021-LM-001	WATER	2		
2	1/29/02	1335	GW-012902-202021-LM-001	"	2		
3	1/29/02	1335	GW-012902-202021-LM-002	"	2		
TOTAL NUMBER OF CONTAINERS					6		
RELINQUISHED BY: ① <i>Lisa Meoli</i>		DATE: 1/29/02		RECEIVED BY: ②			
		TIME: 7:00					
RELINQUISHED BY: ②		DATE:		RECEIVED BY: ③			
		TIME:					
RELINQUISHED BY: ③		DATE:		RECEIVED BY: ④			
		TIME:					
METHOD OF SHIPMENT: <i>1/29/02</i> <i>Fed Ex Courier</i>				AIR BILL No.			
White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy		SAMPLE TEAM: <i>Lisa Meoli</i> <i>George Beng</i>		RECEIVED FOR LABORATORY <i>Derry Ben</i> DATE: 1/30/02 TIME: ?			

J747
MS/MSd
<del>Please supply individual Analytic Report.</del>
<del>Ref. July 2001 QAP          TTAT = 2 wk. For 1 P.          *CRH Contact Paul for s.</del>
DATE: TIME: DATE: TIME: DATE: TIME: DATE: TIME:
BY:  5AM 08'34



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330.497.9396  
Fax: 330.497.0772  
www.stl-nc.com

### ANALYTICAL REPORT

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2A300126

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2A300126

SEVERN TRENT LABORATORIES, INC Name: Bedford

#### Description

Event: Stream Inlet

Samples: 1-GW (1/19 - 002)

Analysis: PCR

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

TAT: 2wk

Lab: STL/ATEL

Checked Against Preliminary Data:

Date: 4/14/02 Init.: u

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

April 15, 2002

## CASE NARRATIVE

A2A300126

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received January 30, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on February 25, 2002

### Sample ID Cross Reference

CRA  
GW-012902-202021-LM-002

STL  
A2A300126-001

Aqua Tech  
MEL02-01202



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 13-Feb-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-01202

Your Sample ID: A2A300126-1

Date Logged In: 2/4/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 2/1/2002

PO#: SR036249

## - COLLECTION INFORMATION -

Date/Time/By: 1/29/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	2/4/02	2/4/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01202	508	Decachlorobiphenyl (Surr)	46 %R *	70	130
		Low surrogate recovery.			
MEL02-01202	508	Tetrachloro-m-xylene (Surr)	99 %R	70	130

End of Report

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2A300126-1

Lab Number MEL02-01202

Laboratory: Aqua Tech Environmental Labs  
PO BOX 436

Severn Trent Laboratories, Inc  
SAMPLE ANALYSIS REQUISITION  
Lab Request SR036249

Report Package: Expanded Deliverables  
Need Analytical Report 2002-02-06

MARION, OH 43301-0436

Client Code: 57787

Project Manager: AMY MCCORMICK

<u>Sample I.D.</u>	<u>Work Order Number</u>	<u>Client Sample ID</u>
A2A300126-1	ETEXH	GW-012902-202021-LM-002

<u>Sampling Date</u>	<u>Analysis Required</u>
2002-01-29	<u>508 PCB (AS Analytes) 01/29/02</u> MB

Need detection limit and analysis date included in report.

Shipping Method: COURIER

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: [Signature] Date/Time: 1-30-02 1115  
Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Received by: S. Roach Date/Time: 2-1-

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

# CRA

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

*ATEL c/o STL-North Canton*

## CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:

*13968*

PROJECT NAME:

*GT-Battford*

*J747*

SAMPLER'S SIGNATURE:

*Lisa Meoli*

PRINTED NAME:

*Lisa Meoli*

PARAMETERS

*GW-202021*

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	NO. OF CONTAINERS	PARAMETERS	REMARKS
1	1/29/02	1335	GW-012902-202021-LM-001	WATER	2		
2	1/29/02	1335	GW-012902-202021-LM-001	"	2		MS/MSd
3	1/29/02	1335	GW-012902-202021-LM-002	"	2		
<del>_____</del>							*Please supply individual Analytical Report.  *Ref: July 2001 QAPP *LAI=2 wk Final Report *CRA Contact=Paul Wiseman
<del>_____</del>							
<del>_____</del>							
<del>_____</del>							

TOTAL NUMBER OF CONTAINERS

*6*

RELINQUISHED BY:

① *Lisa Meoli*

DATE: 1/29/02

TIME: 1800

RECEIVED BY:

② \_\_\_\_\_

DATE:

TIME:

RELINQUISHED BY:

② \_\_\_\_\_

DATE:

TIME:

RECEIVED BY:

③ \_\_\_\_\_

DATE:

TIME:

RELINQUISHED BY:

③ \_\_\_\_\_

DATE:

TIME:

RECEIVED BY:

④ \_\_\_\_\_

DATE:

TIME:

METHOD OF SHIPMENT:

*1/29/02*  
*Fed Ex Courier*

AIR BILL No.

White - Fully Executed Copy  
 Yellow - Receiving Laboratory Copy  
 Pink - Shipper Copy  
 Goldenrod - Sampler Copy

SAMPLE TEAM:

*Lisa Meoli*

*Gr. Jige Beng*

RECEIVED FOR LABORATORY BY:

*Derry Burns*

DATE: 1/29/02 TIME: 7:55 AM

08 1



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.st-inc.com

### ANALYTICAL REPORT

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2A300128

APR 16 2002  
CRA SP417

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2A300128

SEVERN TRENT LABORATORIES, INC. Name: Bedford

#### Description

Event: Stream Invert.

Samples: 7-u (1/29-601)

Location: CRA

*Amy L. McCormick*  
Amy L. McCormick  
Project Manager

TAT: 2wk

Lab: STL

Checked Against Preliminary Data:

Date: 4/16/02 Init.: m

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

April 15, 2002

## CASE NARRATIVE

A2A300128

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received January 30, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

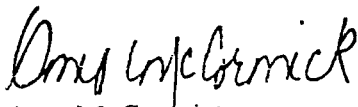
Preliminary results were provided to the Chemistry Department on February 25, 2002.

### Sample ID Cross Reference

CRA  
GW-012902-B809012-LM-001

STL  
A2A300128-001

Aqua Tech  
MEL02-01203



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 13-Feb-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-01203

Your Sample ID: A2A300128-1

Date Logged In: 2/4/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 2/1/2002

PO#: SR036250

## - COLLECTION INFORMATION -

Date/Time/By: 1/29/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	2/4/02	2/4/02		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	<0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	<0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	<0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	<0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	<0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	<0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	<0.10 ug/l	0.1	

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01203	508	Decachlorobiphenyl (Surr)	46 %R *	70	130
		Low surrogate recovery			
MEL02-01203	508	Tetrachloro-m-xylene (Surr)	74 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2A300128-1

Lab Number MEL02-01203

Laboratory: Aqua Tech Environmental Labs  
PO BOX 436

Severn Trent Laboratories, Inc  
SAMPLE ANALYSIS REQUISITION  
Lab Request SR036250

Report Package: Expanded Deliverables  
Need Analyt Report 2002-02-06

MARION, OH 43301-0436

Client Code: 57787

Project Manager: AMY MCCO MICK

<u>Sample I.D.</u>	<u>Work Order Number</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Analysis Required</u>
A2A300128-1	ETEXQ	GW-012902-B809012-LM-001	2002-01-29	508 PCL (AS ANALYSIS) 01.20.03 (AP)

Need detection limit and analysis date included in report.

Ship Method: COURIER

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: [Signature] Date/Time: 1-30-02 1115

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received for by: S. Roach Date/Time: 2-1-02

CR.

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL c/o STL-North Canton

J747

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:

13968

PROJECT NAME:

GM-Bedford

SAMPLER'S SIGNATURE:

*Lisa C. Medel*

PRINTED NAME:

Lisa C. Medel

NO. OF CONTAINERS

PARAMETERS

TW-PCOL(20)

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	NO. OF CONTAINERS	PARAMETERS	REMARKS
1	1/29/02	1420	GM-016 2-880912-LM-001	Water	2	TW-PCOL(20)	
<del>.....</del>							Please supply individual analytical reports.  *Ref. July 2001 QAPP *TAT = 2 WK Final Report *CRA Contact = Paul W. ...
<del>.....</del>							

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY:

(1) *Lisa C. Medel*

DATE: 1/29/02

TIME: 1810

RECEIVED BY:

(2)

DATE:

TIME:

RELINQUISHED BY:

(2)

DATE:

TIME:

RECEIVED BY:

(3)

DATE:

TIME:

RELINQUISHED BY:

(3)

DATE:

TIME:

RECEIVED BY:

(4)

DATE:

TIME:

METHOD OF SHIPMENT:

~~Fed Ex~~ <sup>1/29/02</sup> Courier

AIR BILL No.

White  
Yellow  
Pink  
Colderod

-Fully Executed Copy  
-Receiving Laboratory Copy  
-Shipper Copy  
-Sampler Copy

SAMPLE TEAM:

*L. Medel*  
*Gr. Seng*

RECEIVED FOR LABORATORY BY:

*Derry Burns*

DATE: 1/30/02 TIME: 7:45 AM

08432

REC'D CBA  
MAR 27 2002  
CBA SDG 18



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

## ANALYTICAL REPORT

PROJECT NO. 013968

GMPT BEDFORD

Lot #: A2B130106

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2B130106

SEVERN TRENT LABORATORIES, INC.

Name: Bedford

Description

Event: GW Sampling

Samples: 1-W (2/2-001)

Analysis: PCB

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

1: 2WK

Lab: STL

Checked Against Preliminary Data:

Date: 3/27/02 Init: mc

Date of Validation Method: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

March 26, 2002

## CASE NARRATIVE

A2B130106

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received February 13, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

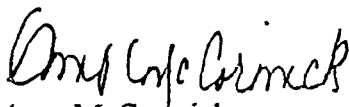
Preliminary results were provided to the Chemistry Department on March 22, 2002.

### Sample ID Cross Reference

CRA  
GW-021202-314012-JK-001

STL  
A2B130106-001

Aqua Tech  
MEL02-01700



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 11-Mar-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-01700

Your Sample ID: A2B130106-1

Date Logged In: 2/14/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 2/14/2002

PO#: SR036496

### - COLLECTION INFORMATION -

Date/Time/By: 2/12/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	2/18/02	2/21/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

### --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01700	508	Decachlorobiphenyl (Surr)	10 %R *	70	130
		Low surrogate recovery.			
MEL02-01700	508	Tetrachloro-m-xylene (Surr)	48 %R *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2B130106-1

Lab Number MEL02-01700

Laboratory: Aqua Tech Environmental Labs  
PO BOX 436

Severn Trent Laboratories, Inc  
SAMPLE ANALYSIS REQUISITION  
Lab Request SR036496

Report Package: Expanded Deliverables  
Need Analytical Report 2002-02-27

MARION, OH 43301-0436

Client Code: 57787

Project Manager: AMY MCCORMICK 330-966-9787

<u>Sample I.D.</u>	<u>Work Order Number</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Analysis Required</u>
A2B130106-1	ET2H7	GW-021202-314012-JK-001	2002-02-12	508 Diethylhexyl sebacate PCB

01700 (AB)

Need detection limit and analysis date included in report.

Shipping method: COURIER

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: [Signature] Date/Time: 2-13-02 0930

Relinquished by: [Signature] Date/Time: [Blank]

Received at lab by: S. Loan Date/Time: 2-12-02 11:00

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

A.T.E.L. (IN CARE OF S.T.L. NORTH CANTON)

PAGE 1/1  
COOLER: 11158

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

013968

PROJECT NAME:

GMPT BEDFORD

SAMPLER'S SIGNATURE:

*Jeff Kolodziejcki*

PRINTED NAME:

JEFF KOLODZIEJSKI

PARAMETERS

No. OF CONTAINERS

PCB's

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
	2/14/02	1150	<del>GW-16-021202-JK-001-1/2</del> GW-021202-314012-JK-001	WATER	2	X	
TOTAL NUMBER OF CONTAINERS 2							

RELINQUISHED BY:

① *Jeff Kolodziejcki*

DATE: 2/12/02

TIME: 1700

RECEIVED BY:

②

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

METHOD OF SHIPMENT: COURIER

AIR BILL No.

White - Fully Executed Copy  
 Yellow - Receiving Laboratory Copy  
 Pink - Shipper Copy  
 Goldenrod - Sampler Copy

SAMPLE TEAM:

J.K., M.D.

RECEIVED FOR LABORATORY BY:

*[Signature]*

DATE 1-13-02 TIME: 6:00

DATE:  
TIME:

DATE:  
TIME:

DATE:  
TIME:

0 33



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-nc.com

### ANALYTICAL REPORT

APR 23 2002  
CRA 5124 21

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2C130107

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2CB0107

Name: Bedford

SEVERN TRENT LABORATORIES, INC.

Description

Event:

Samples: 4 W (3/12 - 1-2 + 10)

Analysis: PCB

*Amy McCormick*

Amy L. McCormick  
Project Manager

T 2 wk

L STL/ATEL

Check

4/23/02

Date

Initials

Comments

April 20, 2002

# CASE NARRATIVE

A2C130107

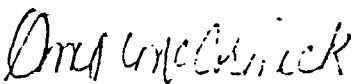
The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The samples were received March 13, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 3, 2002.

## Sample ID Cross Reference

CRA	STL	Aqua Tech
<b>GW-031202-206012-JK-001</b>	A2C130107-001	MEL02-02847
<b>GW-031202-206012-JK-001DISS</b>	A2C130107-002	MEL02-02848
<b>GW-031202-206012-JK-002</b>	A2C130107-003	MEL02-02849
<b>GW-031202-206012-JK-002DISS</b>	A2C130107-004	MEL02-02850



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 22-Mar-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-02847

Your Sample ID: A2C130107-1

Date Logged In: 3/14/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/13/2002

PO#: SR037079

## - COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	3/15/02	3/18/02		
	CAS Number	Parameter			
	Low Surrogate recovery, ok by client to report per Sue S. 03-22-02				
	12674-11-2	Aroclor 1016 UJ		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221 R		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232 UJ		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242 UJ		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248 UJ		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254 UJ		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260 UJ		<0.10 ug/l	0.1

## -- Surrogate Recoveries --

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02847	508	Decachlorobiphenyl (Surr)	24 %R *	70	130

Low surrogate recovery.

Low surrogate recovery.

End of Report

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2C130107-1

Lab Number MEL02-02847

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 22-Mar-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-02848

Your Sample ID: A2C130107-2

Date Logged In: 3/14/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/13/2002

PO#: SR037079

## - COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	3/15/02	3/18/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221 R		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02848	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	60 %R *	70	130
MEL02-02848	508	Tetrachloro-m-xylene (Surr)	90 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2C130107-2

Lab Number MEL02-02848

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 22-Mar-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-02849

Your Sample ID: A2C130107-3

Date Logged In: 3/14/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/13/2002

PO#: SR037079

## - COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	3/15/02	3/18/02		
	CAS Number	Parameter	Result	Typical Report Limit	
	Low Surrogate recovery, ok by client to report per Sue S. 03-22-02				
	12674-11-2	Aroclor 1016 UJ	<0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221 R	<0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232 UJ	<0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242 UJ	<0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248 UJ	<0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254 UJ	<0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260 UJ	<0.10 ug/l	0.1	

## -- Surrogate Recoveries --

Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02849	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	24 %R *	70	130
MEL02-02849	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	21 %R	10	150

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2C130107-3

Lab Number MEL02-02849

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 22-Mar-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-02850

Your Sample ID: A2C130107-4

Date Logged In: 3/14/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/13/2002

PO#: SR037079

## - COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	3/15/02	3/18/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221 <i>R</i>		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02850	508	Decachlorobiphenyl (Surr)	44 %R *	70	130
		Low surrogate recovery.			
MEL02-02850	508	Decachlorobiphenyl (Surr)	95 %R	70	130

Report Approved By: Wade T. DeLong

Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH 6054, NC39701.*

Your Sample ID: A2C130107-4

Lab Number MEL02-02850

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL C/O STL - North Canton

COOLER: K 311  
PAGE: 1 OF 1

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

13968

PROJECT NAME:

GM-Bedford

SAMPLER'S SIGNATURE:

*Jeff Kolodziejcki*

PRINTED NAME:

JEFF KOLONDIETSKI

SEQ. No.

DATE

TIME

SAMPLE No.

SAMPLE MATRIX

No. OF CONTAINERS

PARAMETERS

TOTAL  
DISSOLVED  
TOTAL

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS			REMARKS
	3/12/02	1130	GW-031202-206012-JK-001	WATER	8	x	x	x	ms/msd
	↓	1200	↓ JK-002	↓	4	x	x	x	

TOTAL NUMBER OF CONTAINERS 12

RELINQUISHED BY: ① *Jeff Kolodziejcki*

DATE: 3/12/02  
TIME: 1600

RECEIVED BY: ②

DATE:  
TIME:

RELINQUISHED BY: ②

DATE:  
TIME:

RECEIVED BY: ③

DATE:  
TIME:

RELINQUISHED BY: ③

DATE:  
TIME:

RECEIVED BY: ④

DATE:  
TIME:

METHOD OF SHIPMENT: FED EX

AIR BILL No.

- White - Fully Executed Copy
- Yellow - Receiving Laboratory Copy
- Pink - Shipper Copy
- Goldenrod - Sampler Copy

SAMPLE TEAM: KOLONDIETSKI

RECEIVED FOR LABORATORY: *Ann SANDOZ*

DATE: 3-13-02 TIME:

BY: *5*

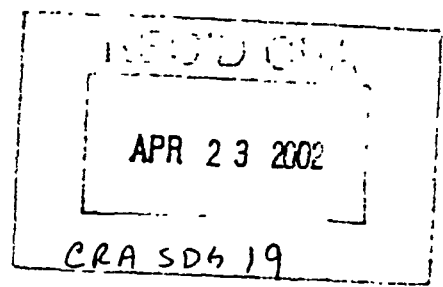
0811



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961  
Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

# ANALYTICAL REPORT

PROJECT NO. 13968  
GM-BEDFORD  
Lot #: A2C220121



Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

## ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2C220121  
Name: Bedford

SEVERN TRENT LABORATORIES, INC.

	<u>Description</u>
Event:	_____
Samples:	<u>2-W (3h1 - T+D)</u>
Analysis:	<u>PLD</u>
Tech:	<u>20K</u>
Lab:	<u>STL</u>
Checked:	<u>4/23/02</u> Preliminary Data: <u>W</u>
Date:	_____ Memo: _____
Initials:	_____ Approval Date: _____
Comments:	_____

*Amy L. McCormick*  
Amy L. McCormick  
Project Manager

April 20, 2002

# CASE NARRATIVE

A2C220121

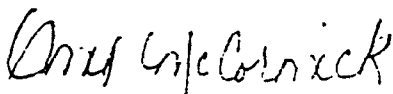
The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The samples were received March 22, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 11, 2002.

## Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-032102-413-JW-001	A2C220121-001	MEL02-03426
GW-032102-413-JW-001DISS	A2C220121-002	MEL02-03427
GW-032102-413-JW-002	A2C220121-003	MEL02-03428
GW-032102-413-JW-002DISS	A2C220121-004	MEL02-03429



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 04-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03426

Your Sample ID: A2C220121-1

Date Logged In: 3/26/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/26/2002

PO#: SR037335

## - COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	3/27/2002	4/1/2002		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03426	508	Decachlorobiphenyl (Surr)	59 %R	70	130
		Low surrogate recovery.			
MEL02-03426	508	Tetrachloro-m-xylene (Surr)	94 %R	70	130

End of Report

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2C220121-1

Lab Number MEL02-03426

# A TEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 04-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attu:

Our Lab#: MEL02-03427

Your Sample ID: A2C220121-2

Date Logged In: 3/26/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/26/2002

PO#: SR037335

## - COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	3/27/2002	4/1/2002		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	<0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	<0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	<0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	<0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	<0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	<0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	<0.10 ug/l	0.1	

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03427	508	Decachlorobiphenyl (Surr)	59 %R *	70	130
		Low surrogate recovery.			
MEL02-03427	508	Tetrachloro m-xylene (Surr)	60 * *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2C220121-2

Lab Number MEL02-03427

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 04-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03428

Your Sample ID: A2C220121-3

Date Logged In: 3/26/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/26/2002

PO#: SR037335

### - COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	3/27/2002	4/1/2002		
	CAS Number	Parameter		Result	Typical Report Limit
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

### --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03428	508	Decachlorobiphenyl (Surr)	62 %R	70	130
		Low surrogate recovery.			
MEL02-03428	508	Tetrachloroethylene (Surr)	89 %R	70	130

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2C220121-3

Lab Number MEL02-03428

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 04-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03429

Your Sample ID: A2C220121-4

Date Logged In: 3/26/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/26/2002

PO#: SR037335

## - COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	3/27/2002	4/1/2002		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1	

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03429	508	Decachlorobiphenyl (Surr)	64 %R *	70	130
		Low surrogate recovery.			
MEL02-03429	508	Tetrachloro-m-xylene (Surr)	94 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2C220121-4

Lab Number MEL02-03429

# CRA

CONESTOGA-ROVERS & ASSOCIATES  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL DO 572-NORTH WILSON K.A. 10-F-1

## CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:  
139168

PROJECT NAME:  
GTM-Bedford

SAMPLER'S SIGNATURE: *John Nesti* PRINTED NAME: Lisa Meoli

PARAMETERS: *DU, PCB, TOTAL DISSOLVED*

SEQ. NO.	DATE	TIME	SAMPLE NO.	SAMPLE MATRIX	NO. OF CONTAINERS	REMARKS
1	3-21-02	1120	6W-032102-413-JW-001	H <sub>2</sub> O	3	XX
2	3-21-02	1122	6W-032102-413-JW-002	H <sub>2</sub> O	4	XX
TOTAL NUMBER OF CONTAINERS 12						

\*Reference 7/2001 CR 100  
 \*TAT - gulk filter re 1005  
 \*CDA Contact - P. W. ...

RELINQUISHED BY: *John Nesti*

DATE: 3-21-02  
 TIME: 1800

RECEIVED BY: *[Signature]*

DATE: *[Blank]*  
 TIME: *[Blank]*

RELINQUISHED BY: *[Blank]*

DATE: *[Blank]*  
 TIME: *[Blank]*

RECEIVED BY: *[Blank]*

DATE: *[Blank]*  
 TIME: *[Blank]*

RELINQUISHED BY: *[Blank]*

DATE: *[Blank]*  
 TIME: *[Blank]*

RECEIVED BY: *[Blank]*

DATE: *[Blank]*  
 TIME: *[Blank]*

METHOD OF SHIPMENT: *Carrier*

AIR BILL No. *[Blank]*

- White - Fully Executed Copy
- Yellow - Receiving Laboratory Copy
- Pink - Shipper Copy
- Goldenrou - Sampler Copy

SAMPLE TEAM: *L. Meoli*

RECEIVED FOR LABORATORY BY: *[Signature]*

DATE: 07 15

**SEVERN  
TRENT  
SERVICES**

STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT

REC'D OF  
APR - 3 2002  
CRA SP9 20

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2C220148

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2C220148

Name: GM Bedford

SEVERN TRENT LABORATORIES, INC.

Description

Event: \_\_\_\_\_

Samples: 1-GW (7/21-003)

Analysis: PCB-101

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

Lab: STL

Checked Against Preliminary Data:

Date: NA Init.: MBC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

April 2, 2002

# SAMPLE SUMMARY

A2C220148

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
EWROC	001	GW-032102-413-JW-003	03/21/02	11:24
EWROF	002	GW-032102-413-JW-003DISS	03/21/02	11:24

## 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, filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

**CR**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (312)380-9933

ASSOCIATES

SHIPPED TO (Laboratory Name):

COOLER: 02

STL-NORTH CANTON

312)380-9933

REFERENCE NUMBER:

PROJECT NAME:

CHAIN OF CUSTODY RECORD

13968

GM-BEDFORD

SAMPLER'S SIGNATURE: *J.S. Weinberger*

PRINTED NAME: JOHN S. WEINBERGER

PARAMETERS

TOTAL PCBs  
Dissolved PCBs

REMARKS

SEQ. No.	DATE	TIME	
1	03/21/02	11:24	GW-0321

SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
-413-JW-003	WATER	4	X X <del>X X</del> 03/21/02	DW-PCBs (508)

TOTAL NUMBER OF CONTAINERS 4

RELINQUISHED BY:  
① *J.S. Weinberger*  
RELINQUISHED BY:  
②  
RELINQUISHED BY:  
③

DATE: 3/21/02  
TIME: 18:00  
DATE:  
TIME:  
DATE:  
TIME:  
DATE:  
TIME:

RECEIVED BY:  
②  
RECEIVED BY:  
③  
RECEIVED BY:  
④

DATE:  
TIME:  
DATE:  
TIME:  
DATE:  
TIME:

METHOD OF SHIPMENT: COURIER

AIR BILL No.

White - Fully Executed Copy  
Yellow - Receiving Laboratory Copy  
Pink - Shipper Copy  
Goldenrod - Sampler Copy

SAMPLE TEAM:  
WEINBERGER  
MEOLI

RECEIVED FOR LABORATORY BY:  
\_\_\_\_\_  
DATE: 3-22-02 TIME: 0800

07403

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-032102-413-JW-003

GC Semivolatiles

Lot-Sample #....: A2C220148-001 Work Order #....: EWROCLAA Matrix.....: WG  
 Date Sampled....: 03/21/02 11:24 Date Received...: 03/22/02  
 Prep Date.....: 03/22/02 Analysis Date...: 03/24/02  
 Prep Batch #....: 2081138  
 Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1016	ND	0.20	ug/L	0.054
Aroclor 1221	ND	0.20	ug/L	0.11
Aroclor 1232	ND	0.40	ug/L	0.056
Aroclor 1242	ND	0.20	ug/L	0.075
Aroclor 1248	ND	0.20	ug/L	0.061
Aroclor 1254	ND	0.20	ug/L	0.082
Aroclor 1260	ND	0.20	ug/L	0.044

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	71	(45 - 120)
Decachlorobiphenyl	42	(24 - 128)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-032102-413-JW-003DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2C220148-002 Work Order #...: EWR0F1AA Matrix.....: WG  
 Date Sampled...: 03/21/02 11:24 Date Received...: 03/22/02  
 Prep Date.....: 03/22/02 Analysis Date...: 03/25/02  
 Prep Batch #...: 2081139  
 Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dissolved Aroclor-1016	ND R	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND R	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND R	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND R	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND R	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND R	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND R	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	8.9 *	(45 - 120)
Decachlorobiphenyl	64	(24 - 128)

NOTE(S):

\* Surrogates recovery is outside stated control limits.



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2C290102

REC'D  
APR 23 2002  
CRA SDG 24

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT  
Project#: 13968 Lab#: A2C290102  
Name: Bedford

SEVERN TRENT LABORATORIES, INC.

Description  
Event: GW  
Samples: 2-W (2/16) 1  
Analysis: PCB-T-U

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

TAT: 2wk  
Lab: STL/ATEL

Checked Against Preliminary Data:  
Date: 4/2/02 Init.: W

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

April 20, 2002

## CASE NARRATIVE

A2C290102

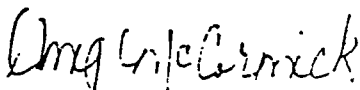
The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site; project number 13968. The sample was received March 29, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 16, 2002.

### Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-032802-216012-GS-001	A2C290102-001	MEL02-03664
GW-032802-216012-GS-001DISS	A2C290102-002	MEL02-03665



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467.

Report Date: 12-Apr-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03664

Your Sample ID: A2C290102-1

Date Logged In: 4/3/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/2/2002

PO#: SR037485

## - COLLECTION INFORMATION -

Date/Time/By: 3/28/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/3/02	4/9/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03664	508	Decachlorobiphenyl (Surr)	60 %R *	70	130
		Low surrogate recovery.			
MEL02-03664	508	Tetrachloro-m-xylene (Surr)	30 %R *	70	130

End of Report

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: .LZ0117, OH4054, .VC39701.

Your Sample ID: A2C290102-1

Lab Number MEL02-03664

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 12-Apr-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03665

Your Sample ID: A2C290102-2

Date Logged In: 4/3/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/2/2002

PO#: SR037485

## - COLLECTION INFORMATION -

Date/Time/By: 3/28/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/3/02	4/9/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03665	508	Decachlorobiphenyl (Surr)	41 %R *	70	130
		Low surrogate recovery.			
MEL02-03665	5	Decachlorobiphenylene (Surr)	31 %R *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: A20117, OH4054, NC39701.

Your Sample ID: A2C290102-2

Lab Number MEL02-03665

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

*STL - NORTH CANTON; NORTH CANTON, OHIO*

*COPIES # K93*

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:  
*13968*

PROJECT NAME:  
*GMP - BEDFORD*

SAMPLER'S SIGNATURE: *George Seng*

PRINTED NAME: *George Seng*

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS		REMARKS
						<i>Dissolved PCBs</i>	<i>TOTAL PCBs</i>	
<i>1</i>	<i>03/28/02</i>	<i>11:59</i>	<i>GW-032802-216012-GS-001</i>	<i>WATER</i>	<i>4</i>	<i>X</i>	<i>X</i>	

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: <i>① George Seng</i>	DATE: <i>3/28/02</i> TIME: <i>17:00</i>	RECEIVED BY: <i>②</i>	DATE: TIME:
RELINQUISHED BY: <i>②</i>	DATE: TIME:	RECEIVED BY: <i>③</i>	DATE: TIME:
RELINQUISHED BY: <i>③</i>	DATE: TIME:	RECEIVED BY: <i>④</i>	DATE: TIME:

METHOD OF SHIPMENT: *COURIER* AIR BILL No.

White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy	SAMPLE TEAM: <i>SENG</i> <i>EINBERGER</i>	RECEIVED FOR LABORATORY BY: <i>Hilme Sanders</i> DATE: <i>03/29/02</i> TIME: <i>7:40 AM</i> <i>07 49</i>
--	---	--



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

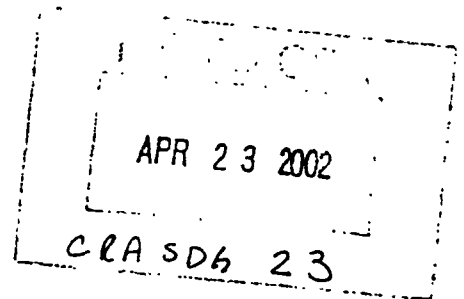
Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-nc.com

### ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D030108



Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2D030108

SEVERN TRENT LABORATORIES, INC

Name: Bedford

#### Description

Event: \_\_\_\_\_

Samples: 2 - (1/2 - m) T-D

Analysis: PCB

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

TAT: 2 wk

Lab: STL / ATCL

Checked Against Preliminary Data:

Date: 4/23/02 Init.: ms

April 20, 2002

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

# CASE NARRATIVE

A2D030108

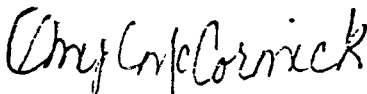
The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received April 3, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 16, 2002.

## Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-040202-305012-JW-001	A2D030108-001	MEL02-03767
GW-040202-305012-JW-001DISS	A2D030108-001	MEL02-03768



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 15-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03767

Your Sample ID: A2D030108-1

Date Logged In: 4/4/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/4/2002

PO#: SR037548

## - COLLECTION INFORMATION -

Date/Time/By: 4/2/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/5/02	4/9/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l <u>45</u>	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l <u>45</u>	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l <u>45</u>	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l <u>45</u>	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l <u>45</u>	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l <u>45</u>	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l <u>45</u>	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03767	508	Decachlorobiphenyl (Surr)	68 %R *	70	130
		Low surrogate recovery.			
MEL02-03767	508	Tetrachloro-m-xylene (Surr)	46 %R *	70	130

End of Report

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D030108-1

Lab Number MEL02-03767

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 15-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03766

Your Sample ID: A2D030108-2

Date Logged In: 4/4/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/4/2002

PO#: SR037548

## - COLLECTION INFORMATION -

Date/Time/By: 4/2/02

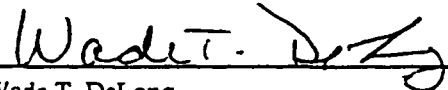
EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/5/02	4/9/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03768	508	Decachlorobiphenyl (Surr)	83 %R	70	130
MEL02-03768	508	Tetrachloro-m-xylene (Surr)	71 %R	70	130

End of Report

Report Approved By:

  
Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2D030108-2

Lab Number MEL02-03768

**CRA**  
 CONESTOGA-ROVERS & ASSOCIATES  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933

**CHAIN OF CUSTODY RECORD**

SHIPPED TO (Laboratory Name):  
 ATEL c/o STL-NORTH CANTON

COOL # CRA 60.  
 PAGE: 1 of 1

REFERENCE NUMBER:  
 13968

PROJECT NAME:  
 GMPT-BEDFORD

SAMPLER'S SIGNATURE: *J.W. Weiberger* PRINTED NAME: JOHN WEIBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS										REMARKS			
						TOTAL PCBs	DISSOLVED												
1	04/02/02	14:11	GW-040202-305012-JW-001	WATER	4	X	X												

TOTAL NUMBER OF CONTAINERS: 4

RELINQUISHED BY: ① *J.W. Weiberger* DATE: 04/02/02 TIME: 18:00

RECEIVED BY: ②

RELINQUISHED BY: ② DATE: TIME:

RECEIVED BY: ③

RELINQUISHED BY: ③ DATE: TIME:

RECEIVED BY: ④

METHOD OF SHIPMENT: COURIER AIR BILL No.

White - Fully Executed Copy  
 Yellow - Receiving Laboratory Copy  
 Pink - Shipper Copy  
 Goldenrod - Sampler Copy

SAMPLE TEAM:  
 SENG, WINKLER  
 WEIBERGER

RECEIVED FOR LABORATORY  
*Derry Bus*  
 DATE: 4/3/02 TIME: 7A

BY: \_\_\_\_\_  
 07 '4



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

# ANALYTICAL REPORT

PROJECT NO. 13968  
GMPT-BEDFORD  
Lot #: A2D050102

ABQ  
CRASH 28

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

## ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2D050102

SEVERN TRENT LABORATORIES, INC.

Name: Bedford

### Description

Event: \_\_\_\_\_

Sample: 41 - 1 TCD

Analysis: PCB

*Amy L. McCormick*  
Amy L. McCormick  
Project Manager

TAT: 2002

Lab: STL/ATEL

Checked Against Preliminary Data:

Date: 4/24/02 Init.: mu

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

April 20, 2002

# CASE NARRATIVE

A2D050102

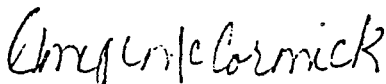
The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received April 5, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 19, 2002.

## Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-040402-472-JW-001	A2D050102-001	MEL02-03946
GW-040402-472-JW-001DISS	A2D050102-002	MEL02-03947



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: 10467

Report Date: 18-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn: Amy McCormick

Our Lab#: MEL02-03946

Your Sample ID: A2D050102-1

Date Logged In: 4/8/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/8/2002

PO#: SR037656

## - COLLECTION INFORMATION -

Date/Time/By: 4/4/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/9/02	4/15/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		1.7 ug/l J	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03946	508	Decachlorobiphenyl (Surr)	38 %R *	70	130
		Low surrogate recovery.			
MEL02-03946	508	Tetrachloro-m-xylene (Surr)	33 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D050102-1

Lab Number MEL02-03946

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 18-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn: Amy McCormick

Our Lab#: MEL02-03947

Your Sample ID: A2D050102-2

Date Logged In: 4/8/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/8/2002

PO#: SR037656

## - COLLECTION INFORMATION -

Date/Time/By: 4/4/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/9/02	4/15/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l <i>US</i>	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l <i>US</i>	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l <i>US</i>	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l <i>US</i>	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l <i>US</i>	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l <i>US</i>	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l <i>US</i>	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03947	508	Decachlorobiphenyl (Surr)	34 %R *	70	130
		Low surrogate recovery.			
MEL02-03947	508	Tetrachloro-m-xylene (Surr)	35 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D050102-2

Lab Number MEL02-03947

# CRA

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL c/o STL-NORTH CANTON

COURIER NA  
PAGE 1 OF 1

## CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:  
13968

PROJECT NAME:  
GMPT-BEDFORD

SAMPLER'S  
SIGNATURE:



PRINTED  
NAME: JOHN WEINBERGER

SEQ.  
No.

DATE

TIME

SAMPLE No.

SAMPLE  
MATRIX

No. OF  
CONTAINERS

PARAMETERS  
DISSOLVED  
PCBS  
TOTAL PCBS

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	PARAMETERS	PARAMETERS	PARAMETERS	PARAMETERS	PARAMETERS	PARAMETERS	PARAMETERS	PARAMETERS	PARAMETERS	PARAMETERS	PARAMETERS	PARAMETERS	PARAMETERS
	04/04/02	11:58	GW-040402-472-JW-001	WATER	4	X	X												

TOTAL NUMBER OF CONTAINERS 4

RELINQUISHED BY:

① 

DATE: 04/04/02

TIME: 18:30

RECEIVED BY:

②

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

DATE:

TIME:

DATE:

TIME:

METHOD OF SHIPMENT: COURIER

AIR BILL No.

White  
Yellow  
Pink  
Golden

-Fully Executed Copy  
-Receiving Laboratory Copy  
-Snipper Copy  
-Sampler Copy

SAMPLE TEAM:

SENG KOLODZIENSKI

WEINBERGER

RECEIVED FOR LABORATORY



DATE: 04/15/02 TIME: 7

BY:

②

⑩

07 58

SEVERN

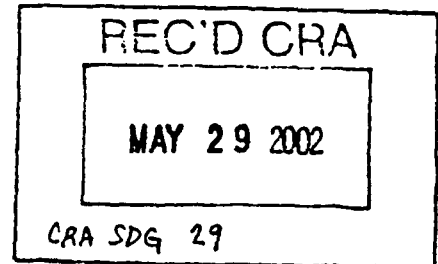
TRENT

SERVICES

STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

## ANALYTICAL REPORT



PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D100105

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2D100105

Name: GM-BEDFORD

#### Description

Event: OFFSITE GW (DW) ANALYSIS

Samples: 2 WATERS (JW 001, 002)

Analysis: PCBS;

SEVERN TRENT LABORATORIES, INC.

Analyst: SINUKP TAT (17-11-02)

Lab: STL-NC / ATEL.

Amy L. McCormick  
Project Manager

Checked Against Preliminary Data:

Date: \_\_\_\_\_ Init: \_\_\_\_\_

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

May 28, 2002

## CASE NARRATIVE

A2D100105

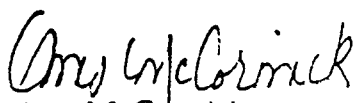
The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received April 10, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 30, 2002.

### Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-040902-414-JW-001	A2D100105-001	MEL02-04316
GW-040902-414-JW-001DISS	A2D100105-002	MEL02-04317
GW-040902-414-JW-002	A2D100105-003	MEL02-04318
GW-040902-414-JW-002DISS	A2D100105-004	MEL02-04319



Amy McCormick  
Project Manager

**CRA**  
 CONESTOGA-ROVERS & ASSOCIATES  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):  
 ATEL c/o  
 STL-NORTH CANTON: NORTH CANTON, OHIO

PAGE 1 OF 1  
~~LABORATORY~~  
 CALLER FOR

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER: 13968 PROJECT NAME: GMPT-BEDFORD

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS			REMARKS
						DISSOLVED PCBS	TOTAL PCBS		
	04/09/02	10:10	GW-040902-414-JW-001	WATER	4	X	X		
	04/09/02	10:15	GW-040902-414-JW-002	WATER	4	X	X		
TOTAL NUMBER OF CONTAINERS					8				

RELINQUISHED BY: ① <i>John S. Weinberger</i>	DATE: 04/09/02 TIME: 18:00	RECEIVED BY: ② _____	DATE: TIME:
RELINQUISHED BY: ② _____	DATE: TIME:	RECEIVED BY: ③ _____	DATE: TIME:
RELINQUISHED BY: ③ _____	DATE: TIME:	RECEIVED BY: ④ _____	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White - Fully Executed Copy	SAMPLE TEAM: SENG, MEOLI WEINBERGER	RECEIVED FOR LABORATORY BY: <i>Dennis Burns</i>	DATE 4/10/02 TIME: 6 AM	07 75
Yellow - Receiving Laboratory Copy				
Pink - Shipper Copy				
Golden - Sampler Copy				

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: 10467

Report Date: 29-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04316

Your Sample ID: A2D100105-1

Date Logged In: 4/16/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037832

## - COLLECTION INFORMATION -

Date/Time/By: 4/9/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	<0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	<0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	<0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	<0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	<0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	<0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	<0.10 ug/l	0.1	

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04316	508	Decachlorobiphenyl (Surr)	28 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D100105-1

Lab Number MEL02-04316

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 29-Apr-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04317

Your Sample ID: A2D100105-2

Date Logged In: 4/16/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037832

## - COLLECTION INFORMATION -

Date/Time/By: 4/9/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04317	508	Decachlorobiphenyl (Surr)	63 %R	70	130
		Low surrogate recovery.			
		1,2,3,4,5,6,7,8,9,10,11,12-Dichloro (Surr)	88 %R	70	130

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D100105-2

Lab Number MEL02-04317

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 29-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attu:

Our Lab#: MEL02-04318

Your Sample ID: A2D100105-3

Date Logged In: 4/16/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037832

## - COLLECTION INFORMATION -

Date/Time/By: 4/9/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04318	508	Decachlorobiphenyl (Surr)	33 %R *	70	130
		Low surrogate recovery.			
MEL02-04318	508	Tetrachloro-m-xylene (Surr)	80 %R	70	130

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D100105-3

Lab Number MEL02-04318

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: 10467

Report Date: 29-Apr-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04319  
Date Logged In: 4/16/02  
Sample Type: Water  
Project #:

Your Sample ID: A2D100105-4  
Sample Source: SDWA/WTP's  
Client Project #:  
Date Submitted to Lab: 4/12/2002 PO#: SR037832

### - COLLECTION INFORMATION -

Date/Time/By: 4/9/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

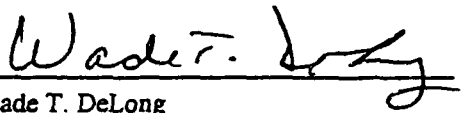
### --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04319	508	Decachlorobiphenyl (Surr)	72 %R	70	130
MEL02-04319	508	Tetrachloro-m-xylene (Surr)	47 %R	70	130

Low surrogate recovery.

End of Report

Report Approved By:

  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D100105-4

Lab Number MEL02-04319



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961  
Tel. 330.497 9396  
Fax 330 497 0772  
www.st-nc.com

# ANALYTICAL REPORT

REC'D CRA  
MAY 29 2002  
CRA SDG 25.

PROJECT NO. 13968  
GMPT-BEDFORD  
Lot #: A2D110111

Paul Wiseman

Conestoga Rovers & Assoc. ORIGINAL ANALYTICAL REPORT  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170  
Project#: 13968 Lab#: A2D110111  
Name: GM-BEDFORD

### Description

Event: OFFSITE GW (PW) ANALYSIS

Samples: 3 WATERS (LH 001, JW 001, 002)

SEVERN TRENT LABORATORIES, Analysis: PCBs

TAT: STANDARD TAT (14 DAYS)

T.L. ST-NC / ATEL

Checked Against Preliminary Data:

*Amy McCormick* Date: \_\_\_\_\_ Init: \_\_\_\_\_

Amy L. McCormick Date of Validation Memo: \_\_\_\_\_  
Project Manager

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

May 28, 2002

# CASE NARRATIVE

A2D110111

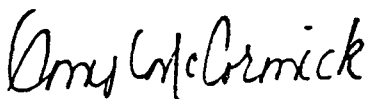
The following report contains the analytical results for three water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received April 11, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 30, 2002.

## Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-041002-115012-LM-001	A2D110111-001	MEL02-04311
GW-041002-115012-LM-001DISS	A2D110111-002	MEL02-04312
GW-041002-115012-JW-002	A2D110111-003	MEL02-04313
GW-041002-115012-JW-002DISS	A2D110111-004	MEL02-04314
GW-041002-115012-JW-001	A2D110111-005	MEL02-04315



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 29-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04311

Your Sample ID: A2D110111-1 D+S

Date Logged In: 4/15/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037834

## - COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04311	508	Decachlorobiphenyl (Surr)	28 %R *	70	130
		Low surrogate recovery.			
MEL02-04311	508	Tetrachloro-m-xylene (Surr)	74 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D110111-1 D+S

Lab Number MEL02-04311

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: 10467

Report Date: 29-Apr-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04312

Your Sample ID: A2D110111-2 D+S

Date Logged In: 4/16/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037834

## - COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1	

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04312	508	Decachlorobiphenyl (Surr)	67 %R *	70	130
		Low surrogate recovery.			
MEL02-04312	508	Tetrachloro-m-xylene (Surr)	87 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D110111-2 D+S

Lab Number MEL02-04312

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: ID467

Report Date: 29-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04313

Your Sample ID: A2D110111-3

Date Logged In: 4/16/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037834

## - COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04313	508	Decachlorobiphenyl (Surr)	32 %R *	0	130
		Low surrogate recovery.			
MEL02-04313	508	Trichlorobiphenyl (Surr)	32 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D110111-3

Lab Number MEL02-04313

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 29-Apr-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04314  
Date Logged In: 4/16/02  
Sample Type: Water  
Project #:

Your Sample ID: A2D110111-4  
Sample Source: SDWA/WTP's  
Client Project #:  
Date Submitted to Lab: 4/12/2002 PO#: SR037834

## - COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date	CAS Number	Parameter	Result	Typical Report Limit
508	MRW	4/15/02	4/18/02	12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
				11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
				11141-16-3	Aroclor 1232	<0.10 ug/l UJ	0.1
				53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
				12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
				11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
				11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04314	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	26 %R *	70	130
MEL02-04314	508	Tetrachloro-methylene (Surr) Low surrogate recovery.	60 %R *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D110111-4

Lab Number MEL02-04314

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999  
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 29-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04315

Your Sample ID: A2D110111-5

Date Logged In: 4/16/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037834

## - COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04315	508	Decachlorobiphenyl (Surr)	55 %R *	70	130
		Low surrogate recovery.			
MEL02-04315	508	Tetrachloro-m-xylene (Surr)	77 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D110111-5

Lab Number MEL02-04315

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Ave  
Chicago, Illinois 60631 773)380-9933

SHIPPED TO (Laboratory Name):

*ATEL c/o STL-NORTH CANTON*

*1031  
K165*

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:  
*13968*

PROJECT NAME:  
*GMPT-BEDFORD*

SAMPLER'S SIGNATURE: *John Weinberger*

PRINTED NAME: *JOHN WEINBERGER*

PARAMETERS  
*ANALYZED*  
*PCBs*  
*TOTAL PCBs*

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS										REMARKS		
<i>1</i>	<i>04/10/02</i>	<i>14:30</i>	<i>GW-04 02-115012-LM-001</i>	<i>WATER</i>	<i>8</i>	<i>X</i>	<i>X</i>											<i>MS/MSD</i>
<i>2</i>	<i>04/10/02</i>	<i>14:50</i>	<i>GW-04 02-115012-JW-002</i>	<i>WATER</i>	<i>4</i>	<i>X</i>	<i>X</i>											
<i>3</i>	<i>04/10/02</i>	<i>17:00</i>	<i>EB-04 2-115012-JW-001</i>	<i>WATER</i>	<i>2</i>		<i>X</i>											

TOTAL NUMBER OF CONTAINERS *14*

RELINQUISHED BY: *John Weinberger*

DATE: *04/10/02*  
TIME: *18:00*

RECEIVED BY: *(Signature)* DATE: TIME:

RELINQUISHED BY: *(Signature)*

DATE: TIME:

RECEIVED BY: *(Signature)* DATE: TIME:

RELINQUISHED BY: *(Signature)*

DATE: TIME:

RECEIVED BY: *(Signature)* DATE: TIME:

METHOD OF SHIPMENT: *COURIER*

AIR BILL No.

White - Fully Executed Copy  
Yellow - Receiving Laboratory Copy  
Pink - Shipper Copy  
Goldenrod - Sampler Copy

SAMPLE TEAM:  
*SENG, MEOLI  
WEINBERGER*

RECEIVED FOR LABORATORY BY: *(Signature)*  
DATE: *4/11/02* TIME: *6:40 AM* 07482



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT

REC'D CRA  
MAY 29 2002  
CRA SDG-26

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2D160105

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2D160105  
Name: GM BEDFORD

#### Description

SEVERN TRENT LABORATORIES, INC Event: OFFSITE GW(DW) ANALYSIS  
Samples: 1 WATER (JW-001)  
Analysis: PCBs; T+D

Amy L. McCormick  
Project Manager

IAI: STL-NC-ATEL

Lab: STL-NC-ATEL

Checked Against Preliminary Data:

Date: 5/30/02 Init.: mm

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

May 28, 2002

## CASE NARRATIVE

A2D160105

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received April 16, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on May 8, 2002.

### Sample ID Cross Reference

CRA  
GW-041502-403014-JW-001  
GW-041502-403014-JW-001DISS

STL  
A2D160105-001  
A2D160105-002

Aqua Tech  
MEL02-04628  
MEL02-04629



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: 10467

Report Date: 03-May-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04628

Your Sample ID: A2D160105-1

Date Logged In: 4/19/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/18/2002

PO#: SR037915

## - COLLECTION INFORMATION -

Date/Time/By: 4/15/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/19/02	4/22/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l UJ	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04628	508	Decachlorobiphenyl (Surr)	22 %R *	70	130
		Low surrogate recovery.			
MEL02-04628	508	Tetrachloro-m-xylene (Surr)	47 %R *	70	130
		Low surrogate recovery			

End of Report

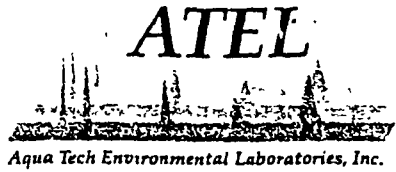
Report Approved By:

Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D160105-1

Lab Number MEL02-04628



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467  
 STL North Canton  
 4101 Shuffel Dr NW  
 N Canton, OH 44720

Report Date: 03-May-02

Attn:

Phone: (330) 497-9396 Ext:  
 FAX: (330) 497-0772

Our Lab#: MEL02-04629  
 Date Logged In: 4/19/02  
 Sample Type: Water  
 Project #:

Your Sample ID: A2D160105-2  
 Sample Source: SDWA/WTP's  
 Client Project #:  
 Date Submitted to Lab: 4/18/2002 PO#: SR037915

**- COLLECTION INFORMATION -**

Date/Time/By: 4/15/02 -

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/19/02	4/22/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04629	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	18 %R *	70	130
MEL02-04629	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	26 %R *	70	130

*End of Report*

Report Approved By: Wade T. DeLong  
 Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2D160105-2

Lab Number MEL02-04629

**CR.**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)360-2233

SHIPPED TO (Lab. Party Name):

ATEL C/O STL-N. Canton

Cool STL Buffalo

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:  
13968

PROJECT NAME:  
GM-Bedford

SAMPLER'S SIGNATURE: *David L. Medli* PRINTED NAME: *USA Medli*

SEQ. No. DATE TIME SAMPLE No. SAMPLE MATRIX CONTAINERS

1 4-15-02 1410 Gw-D41500-403014-TW-001

WATER 4 2 2

PARAMETERS  
*NO. REC. 07/05/02*

REMARKS

TOTAL NUMBER OF CONTAINERS 4

RELINQUISHED BY: ① <i>David L. Medli</i>	DATE: 4-15-02 TIME: 1411	RECEIVED BY: ②	DATE: _____ TIME: _____
RELINQUISHED BY: ②	DATE: _____ TIME: _____	RECEIVED BY: ③	DATE: _____ TIME: _____
RELINQUISHED BY: ③	DATE: _____ TIME: _____	RECEIVED BY: ④	DATE: _____ TIME: _____

METHOD OF SHIPMENT: *Carrier*

AIR BILL No.

White - Fully Executed Copy  
Yellow - Receiving Laboratory Copy  
Pink - Shipper Copy  
Goldendrod - Sampler Copy

SAMPLE TEAM:  
*Medli, Wernberger, Sung*

RECEIVED FOR LABORATORY BY: *ATTN: STW Seng Bunn*  
DATE: *4/16/02* TIME: *7 AM*  
07765

**SEVERN  
TRENT  
SERVICES**

STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

**ANALYTICAL REPORT**

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D180105

DO CRA  
MAY - 7 2002  
CRA 506 27

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2D18005

SEVERN TRENT LABORATORIES, INC. Name: Bedford

Description

Event: \_\_\_\_\_

Samples: 2-W (4/17-01+02)

PCB-T&D

*Amy L. McCormick* / *AT&L*

Amy L. McCormick  
Project Manager

Lab: STL/AT&L

Checked Against Preliminary Data:

Date: \_\_\_\_\_ Init: \_\_\_\_\_

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

May 6, 2002

**SAMPLE SUMMARY**  
**A2D180105**

<u>WO#</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
EX3N5	001	GW-041702-1277025-LM-001	04/17/02	12:05
EX3PC	002	GW-041702-1277025-LM-001DISS	04/17/02	12:05
EX3PE	003	GW-041702-1277025-LM-002	04/17/02	15:05
EX3PG	004	GW-041702-1277025-LM-002DISS	04/17/02	15:05

**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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 02-May-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04769

Your Sample ID: A2D180105-001

Date Logged In: 4/24/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/23/2002

PO#: SR037982

## - COLLECTION INFORMATION -

Date/Time/By: 4/17/02

Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
	MRW	4/23/02	4/26/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## -- Surrogate Recoveries --

OC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04769	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	30 %R *	70	130
MEL02-04769	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	45 %R *	70	130

End of Report

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

Report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: A20117, OH4054, NC39701.

Your Sample ID: A2D180105-001

Lab Number MEL02-04769

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 02-May-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04770

Your Sample ID: A2D180105-002

Date Logged In: 4/24/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/23/2002

PO#: SR037982

## - COLLECTION INFORMATION -

Date/Time/By: 4/17/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
	MRW	4/23/02	4/26/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04770	503	Decachlorobiphenyl (Surr) Low surrogate recovery.	33 %R *	70	130
MEL02-04770	503	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	47 %R *	70	130

End of Report

Report Approved By:

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4034, NC39701.

Your Sample ID: A2D180105-002

Lab Number MEL02-04770

STL North Canton

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: 10467

Report Date: 02-May-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attu:

Our Lab#: MEL02-04771

Your Sample ID: A2D180105-003

Date Logged In: 4/24/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/23/2002

PO#: SR037982

### - COLLECTION INFORMATION -

Date/Time/By: 4/17/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
	MRW	4/23/02	4/26/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

### -- Surrogate Recoveries --

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04771	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	43 %R *	70	130
MEL02-04771	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	60 %R *	70	130

End of Report

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D180105-003

Lab Number MEL02-04771

PL North Canton

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 02-May-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04772

Your Sample ID: A2D180105-004

Date Logged In: 4/24/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/23/2002

PO#: SR037982

## - COLLECTION INFORMATION -

Date/Time/By: 4/17/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
JS	MRW	4/23/02	4/26/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04772	505	Decachlorobiphenyl (Surr)	45 %R *	70	130
		Low surrogate recovery.			
MEL02-04772	505	Tetrachloroethylene (Surr)			130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D180105-004

Lab Number MEL02-04772

STL North Canton

MEL02-04772

**CR.**  
**CONESTOGA-ROVERS &**  
 8615 W. Bryn Mawr Ave  
 Chicago, Illinois 60631

**SOCIATES**  
 16  
 773)380-9933

SHIPPED TO (Laboratory Name):

*ATEL C/O STL N. CANTON*

*Cook County Lab TN*

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:  
*13968*

PROJECT NAME:  
*GRAPT - Bedford*

SAMPLER'S SIGNATURE: *Lisa C. Meoli*

PRINTED NAME: *LISA C. Meoli*

No. OF CONTAINERS

PARAMETERS:

*TOT. PEST. RES. DIS.*

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
1	4-17-02	1205	GW-C	702-1277025-LA1-C01	H2O	4	X X
2	4-17-02	1505	GW-C	702 1277025-LA1-C02	H2O	4	X X

TOTAL NUMBER OF CONTAINERS: *8*

RELINQUISHED BY: *Lisa C. Meoli*

DATE: *4-17-02*  
 TIME: *1600*

RECEIVED BY: *(Signature)*

DATE:  
 TIME:

RELINQUISHED BY: *(Signature)*

DATE:  
 TIME:

RECEIVED BY: *(Signature)*

DATE:  
 TIME:

RELINQUISHED BY: *(Signature)*

DATE:  
 TIME:

RECEIVED BY: *(Signature)*

DATE:  
 TIME:

METHOD OF SHIPMENT: *(Courier)*

AIR BILL No.

White - Fully Executed Copy  
 Yellow - Receiving Laboratory Copy  
 Pink - Shipper Copy  
 Goldenrod - Sampler Copy

SAMPLE TEAM:  
*G. Seng*  
*L. Meoli*

RECEIVED FOR LABORATORY BY: *(Signature)*

DATE: *4-18-02* TIME: *0740*

07412



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

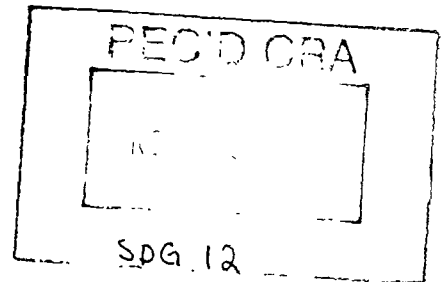
Tel: 330 497 9396  
Fax: 330 497 0772  
www.st-nc.com

### ANALYTICAL REPORT

PROJECT NO. 13968

GM-BKDFORD

Lot #: A11210104



Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

SEVERN TRENT LABORATORIES, INC. Project#: 13968 Lab#: A11210104

Name: GMP- Bedford Plant

#### Description

Event: GW - Supply Well Survey

Samples: 1W (9/14)

Analysis: PCB

TAT: 2WL

Lab: STL/ATEL

#### Checked Against Preliminary Data:

Date: 12/10/01 Init: ABC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

*Amy L. McCormick*  
Amy L. McCormick  
Project Manager

November 28, 2001

CRA

CONESTOGA-ROVERS & ASSOCIATES  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Lab ory Name):

ATEL CLO STL - North Canton

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

13468

PROJECT NAME:

GM-BEDFORD

SAMPLER'S SIGNATURE:

*Lisa C. Medli*

PRINTED NAME:

LISA C. MEDLI

PARAMETERS

NO. OF CONTAINERS

*DW-PP(1500)*

REMARKS

SEQ. No.

DATE

TIME

SAMPLE No.

SAMPLE MATRIX

1

9/14/01

1724

GW-091401-880902-LM-001

WATER

2

11628 (A, B)

\* Ref. July 2001 QAPP  
 \* TAT = 2 WK final report  
 \* CRA Contact = Bill Wiseman

TOTAL NUMBER OF CONTAINERS **2**

RELINQUISHED BY:

① *Lisa M. Medli*

9/14/01  
1533

DATE: 9/14/01  
 TIME: 1500

RECEIVED BY:

② *Wael Z. [Signature]*

DATE: 9-18-01  
 TIME: 3:33

RELINQUISHED BY:

② \_\_\_\_\_

DATE:  
 TIME:

RECEIVED BY:

③ \_\_\_\_\_

DATE:  
 TIME:

RELINQUISHED BY:

③ \_\_\_\_\_

DATE:  
 TIME:

RECEIVED BY:

④ \_\_\_\_\_

DATE:  
 TIME:

METHOD OF SHIPMENT: ~~Fed Ex~~ *A-9/14/01*

AIR BILL No. ~~4410 4466 5184~~ *A-9/14/01*

- White - Fully Executed Copy
- Yellow - Receiving Laboratory Copy
- Pink - Shipper Copy
- Goldenrod - Sampler Copy

SAMPLE TEAM:  
 L. MEDLI

RECEIVED FOR LABORATORY BY:

*S. Koch*

DATE: 9-18-01 TIME: 4:00

08436

## CASE NARRATIVE

A11210104

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received September 18, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

### Sample ID Cross Reference

CRA  
GW-091401-8809012-LM-001

STL  
A11210104-001

Aqua Tech  
MEL01-11628



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 08-Nov-01

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-11628

Your Sample ID: GW-091401-8809012-LM-001

Date Logged In: 9/19/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #: CRA

Project #:

Date Submitted to Lab: 9/18/2001

PO#: 13968 GM-Bedford

## - COLLECTION INFORMATION -

Date/Time/By: 9/14/2001 5:24 PM Lisa Meoli

EPA Method	Analyst	Prep Date	Analysis Date		
508	SH	9/19/2001	9/25/2001		
	CAS Number	Parameter		Result	Typical Report Limit
		Re-extraction performed out of hold time.			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-11628	508	Decachlorobiphenyl (Surr)	32 %R *	70	130
		Low surrogate recovery			
MEL01-11628	508	Tetrachloro-m-xylene (Surr)	55 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade J. [Signature]

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.

Your Sample ID: GW-091401-8809012-LM-001

Lab Number MEL01-11628

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999  
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

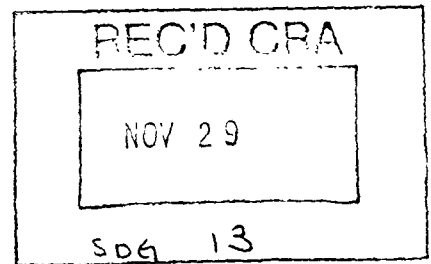
Tel: 330 497 9396  
Fax: 330 497 0772  
www.st-inc.com

### ANALYTICAL REPORT

PROJECT NO. 13968

GM-BEDFORD

Lot #: A11210103



Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A11210103

SEVERN TRENT LABORATORIES, INC Name: GMPT - Bedford Plant

#### Description

Event: GW - Supply Well Survey

Samples: 1W (9/15)

Analysis: PCB

TAT: 2wk

Lab: STL/ATEL

Checked Against Preliminary Data:

Date: 12/10/01 Init: hw

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

Amy L. McCormick  
Project Manager

November 28, 2001

## CASE NARRATIVE

A11210103

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received September 18, 2001, according to documented sample acceptance procedures.

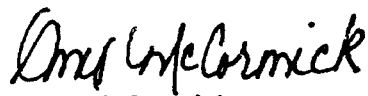
Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

### Sample ID Cross Reference

CRA  
GW-091501-620013-LM-001

STL  
A11210103-001

Aqua Tech  
MEL01-11627



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 10-Oct-01

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-11627

Your Sample ID: GW-091501-620013-LM-001

Date Logged In: 9/19/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #: CRA

Project #:

Date Submitted to Lab: 9/18/2001

PO#: 13968 GM-Bedford

## - COLLECTION INFORMATION -

Date/Time/By: 9/15/2001 12:28 PM Lisa Meoli


EPA Method	Analyst	Prep Date	Analysis Date		
508	SH	9/19/2001	9/25/2001		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	0.95 ug/l	0.1	
	12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1	

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-11627	508	Decachlorobiphenyl (Surr)	48 %R *	70	130
		Low surrogate recovery.			
MEL01-11627	508	Tetrachloro-m-xylene (Surr)	100 %R	70	130

End of Report

Report Approved By:

  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.

Your Sample ID: GW-091501-620013-LM-001

Lab Number MEL01-11627

6878 S STATE ROUTE 100 • PO BOX 76 • MELMORE, OH 44845-9999  
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

STL

# CRA

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL C/O STL - North Canton

## CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:

13460

PROJECT NAME:

GM-BENFORD

SAMPLER'S SIGNATURE:

*Lisa C. Meoli*

PRINTED NAME:

Lisa Meoli

No. OF CONTAINERS

PARAMETERS

*DUPLICATE*

REMARKS

SEQ. No.

DATE

TIME

SAMPLE No.

SAMPLE MATRIX

1

9/15/01 1228

GW-091501-620013-LM-001

WATER

2

11637 (A.B)

TOTAL NUMBER OF CONTAINERS 2

\*Ref. July 2001 QAPP  
\*TAT=2wk final report  
\*CRA Contact=Paul Wiseman

RELINQUISHED BY:

① *Lisa Meoli*

9/17/01  
1533

DATE: 9/17/01

TIME: 1500

RECEIVED BY:

② *Walter D...*

DATE: 9-18-01

TIME: 5:35

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT: ~~FED EX~~ 9/19/01

AIR BILL No. 4410 4466 51949 9/19/01

White  
Yellow  
Pink  
Gold

- Fully Executed Copy  
- Receiving Laboratory Copy  
- Shipper Copy  
- Sampler Copy

SAMPLE TEAM:

L. Meoli

RECEIVED FOR LABORATORY BY:

*S. Roach*

DATE: 9-18-01 TIME: 4:00

08437



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

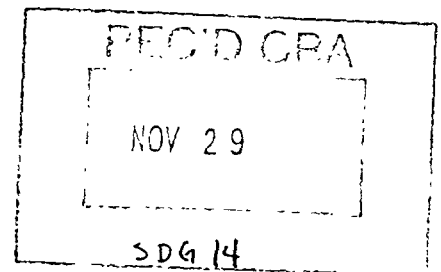
Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

# ANALYTICAL REPORT

PROJECT NO. 13968

GM-BEDFORD

Lot #: ALJ020104



Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

## ORIGINAL ANALYTICAL REPORT

SEVERN TRENT LABORATORIES, INC

Project#: 13968 Lab#: A15020104

Name: GMPT - Bedford Plant

### Description

Event: GW - Supply Well Survey

Samples: 1w (10/1)

Analysis: PCB

Amy L. McCormick  
Project Manager

TAT: 2PK

Lab: STL/ATL

Checked Against Preliminary Data:

Date: 12/10/02 Init.: ~

November 28, 2001

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

## CASE NARRATIVE

A1J020104

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received October 2, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

### Sample ID Cross Reference

CRA  
GW-100101-330026-LM-001

STL  
A1J020104-001

Aqua Tech  
MEL01-12609



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 22-Oct-01

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-12609

Your Sample ID: AIJ020104-1

Date Logged In: 10/8/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 10/4/2001

PO#: SR033804

## - COLLECTION INFORMATION -

Date/Time/By: 10/1/01

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	SH	10/8/01	10/11/01		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-12609	508	Decachlorobiphenyl (Surr)	30 %R *	70	130
		LOW SURROGATE RECIOVERY			
MEL01-12609	508	Tetrachloro-m-xylene (Surr)	71 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.*

Your Sample ID: AIJ020104-1

Lab Number MEL01-12609



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

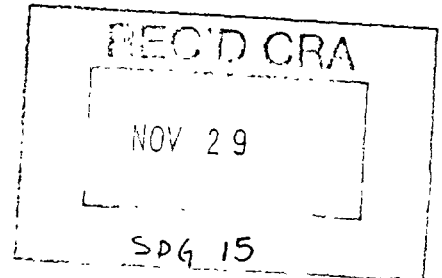
Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT

PROJECT NO. 13968

GM-BEDFORD

Lot #: ALJ020103



Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

SEVERN TRENT LABORATORIES, INC. Project#: 13968 Lab#: ALJ020103

Name: GMPT - Bedford Plant

#### Description

Event: GW - Supply Well Survey

Samples: 10 (10/1)

Analysis: PCB

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

TAT: 2WK

Lab: STL/ATEL

Checked Against Preliminary Data:

Date: 12/10/01 Init.: h

November 28, 2001

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

## CASE NARRATIVE

AIJ020103

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received October 2, 2001, according to documented sample acceptance procedures.

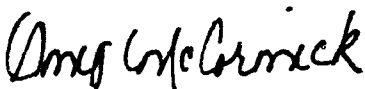
Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

### Sample ID Cross Reference

CRA  
GW-100101-330026-LM-002

STL  
AIJ020103-001

Aqua Tech  
MEL01-12608



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

A I I 2 10/04

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 08-Nov-01

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-11628

Your Sample ID: GW-091401-8809012-LM-001

Date Logged In: 9/19/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #: CRA

Project #:

Date Submitted to Lab: 9/18/2001

PO#: 13968 GM-Bedford

## - COLLECTION INFORMATION -

Date/Time/By: 9/14/2001 5:24 PM Lisa Meoli

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	SH	9/19/2001	9/25/2001		
	CAS Number	Parameter			
	Re-extraction performed out of hold time.				
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-11628	508	Decachlorobiphenyl (Surr)	32 %R *	70	130
		Low surrogate recovery			
MEL01-11628	508	Tetrachloro-m-xylene (Surr)	55 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade D. [Signature]

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only affect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the actual samples tested.

Your Sample ID: GW-091401-8809012-LM-001

Lab Number MEL01-11628

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999  
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

OK 11/21/01

# ATEL



Aqua Tech Environmental Laboratories, Inc.

AI 210103

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 10-Oct-01

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-11627

Your Sample ID: GW-091501-620013-LM-001

Date Logged In: 9/19/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #: CRA

Project #:

Date Submitted to Lab: 9/18/2001

PO#: 13968 GM-Bedford

## - COLLECTION INFORMATION -

Date/Time/By: 9/15/2001 12:28 PM Lisa Meoli

EPA Method	Analyst	Prep Date	Analysis Date		
508	SH	9/19/2001	9/25/2001		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	<0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	<0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	<0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	0.95 ug/l	0.1	
	12672-29-6	Aroclor 1248	<0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	<0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	<0.10 ug/l	0.1	

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-11627	508	Decachlorobiphenyl (Surr)	48 %R *	70	130
		Low surrogate recovery.			
MEL01-11627	508	Tetrachloro-m-xylene (Surr)	100 %R	70	130

End of Report

Report Approved By: Wade T. DeLong  
Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested.*

Your Sample ID: GW-091501-620013-LM-001

Lab Number MEL01-11627

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999  
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

STL

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

APEL Clo STL - North Canton

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

13968

PROJECT NAME:

GM-BENFORD

SAMPLER'S SIGNATURE:

Lisa C Meoli

PRINTED NAME:

Lisa Meoli

NO. OF CONTAINERS

PARAMETERS

*DUPLICATE*

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX
<u>1</u>	<u>9/15/01</u>	<u>1228</u>	<u>GW-091501-620013-LM-001</u>	<u>WATER</u>

<u>2</u>	<u>11637 (A,B)</u>

TOTAL NUMBER OF CONTAINERS 2

\*Ref. July 2001 OAPP  
\*TAE-2uk final report  
\*CRA contact = Paul Wiseman

RELINQUISHED BY: ① <u>4/6/01</u>	DATE: <u>9/17/01</u> TIME: <u>1500</u>	RECEIVED BY: ② <u>Waeler De...</u>	DATE: <u>9-18-01</u> TIME: <u>333</u>
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: FED EX 9/18/01 AIR BILL No. 4410 4466 5184 9/18/01

White -Fully Executed Copy Yellow -Receiving Laboratory Copy Pink -Shipper Copy Goldenrod -Sampler Copy	SAMPLE TEAM: <u>Li Meoli</u>	RECEIVED FOR LABORATORY BY: <u>S Roach</u> DATE: <u>9-18-01</u> TIME: <u>4:00</u>	<u>08437</u>
--	---------------------------------	---	--------------

COPIES - OCT 24/96 RE 0-(C)F-011

STL

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL C/O STL - North Canton

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

13968

PROJECT NAME:

GM-BEDFORD

SAMPLER'S SIGNATURE:

*Lisa C. Medli*

PRINTED NAME:

LISA C. MEDLI

NO. OF CONTAINERS

PARAMETERS

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	NO. OF CONTAINERS	PARAMETERS	REMARKS
1	9/14/01	1724	GW-091401-B80902-LM-001	WATER	2	✓ GW-P21(500)	11628 (A.B)

\* Ref. July 2001 OAPP  
\* TAT = 2 WK Final Report  
\* CRA Contact = Paul Wiseman

TOTAL NUMBER OF CONTAINERS 2

RELINQUISHED BY: ① <i>Lisa C. Medli</i>	DATE: 9/14/01 TIME: 1500	RECEIVED BY: ② <i>Wael T. ...</i>	DATE: 9-18-01 TIME: 3:33
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: ~~Fed Ex~~ Fed Ex 9/14/01 AIR BILL No. 4410 4466 5184 9/18/01

White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy	SAMPLE TEAM: L. MEDLI	RECEIVED FOR LABORATORY BY: <i>S. Koach</i> DATE: 9-18-01 TIME: 4:00	08436
--	--------------------------	--	-------

M

# ATEL



Aqua Tech Environmental Laboratories, Inc.

A1J020103

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 22-Oct-01

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-12608

Your Sample ID: A1J020103-1

Date Logged In: 10/8/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 10/4/2001

PO#: SR033804

## - COLLECTION INFORMATION -

Date/Time/By: 10/1/01

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	SH	10/8/01	10/11/01		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-12608	508	Decachlorobiphenyl (Surr)	17 %R *	70	130
		Low surrogate recovery			
MEL01-12608	508	Tetrachloro-m-xylene (Surr)	47 %R *	70	130
		Low surrogate recovery			

End of Report

Report Approved By:

*Wade T. DeLong*  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.

Your Sample ID: A1J020103-1

Lab Number MEL01-12608

# ATEL

Aqua Tech Environmental Laboratories, Inc.

A1J020104

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 22-Oct-01

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-12609

Your Sample ID: A1J020104-1

Date Logged In: 10/8/01

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 10/4/2001

PO#: SR033804

## - COLLECTION INFORMATION -

Date/Time/By: 10/1/01

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	SH	10/8/01	10/11/01		
	CAS Number	Parameter		Result	Typical Report Limit
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-12609	508	Decachlorobiphenyl (Surr)	30 %R *	70	130
		LOW SURROGATE RECOVERY			
MEL01-12609	508	Tetrachloro-m-xylene (Surr)	71 %R	70	130

End of Report

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.*

Your Sample ID: A1J020104-1

Lab Number MEL01-12609



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

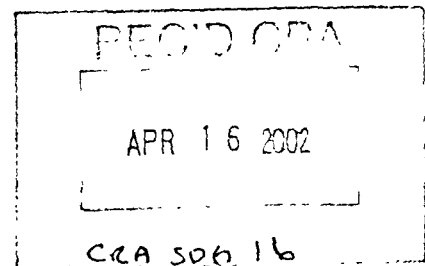
Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-nc.com

# ANALYTICAL REPORT

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2A300124



Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

## ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2A300124

SEVERN TRENT LABORATORIES, INC. Name: Bedford

### Description

Event: Stream Inve.

Samples: I-W (1/29-00)

Analysis: PCB

Amy L. McCormick  
Project Manager

TAT: 20K

Lab: STL / AFEL

### Checked Against Preliminary Data:

Date: 4/16/02 Init.: 32

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

April 15, 2002

## CASE NARRATIVE

A2A300124

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received January 30, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

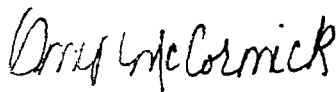
Preliminary results were provided to the Chemistry Department on February 25, 2002

### Sample ID Cross Reference

CRA  
GW-012902-202021-LM-001

STL  
A2A300124-001

Aqua Tech  
MEL02-01201



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories Inc

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 13-Feb-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-01201

Your Sample ID: A2A300124-1

Date Logged In: 2/4/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 2/1/2002

PO#: SR036248

### - COLLECTION INFORMATION -

Date/Time/By: 1/29/02

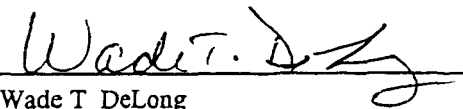
EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	2/4/02	2/4/02		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1	

### --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01201	508	Decachlorobiphenyl (Surr)	44 %R *	70	130
		Low surrogate recovery			
MEL02-01201	508	Tetrachloro-m-xylene (Surr)	101 %R	70	130

End of Report

Report Approved By:

  
Wade T DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701

Your Sample ID: A2A300124-1

Lab Number MEL02-01201

Laboratory: Aqua Tech Environmental Labs  
PO BOX 436

MARION, OH 43301-0436

Client Code: 57787

Severn Trent Laboratories, Inc  
SAMPLE ANALYSIS REQUISITION  
Lab Request SR036248

Report Package: Expanded Deliverables

Need Analytical Report 2002-02-06

Project Manager: AMY MCCORMICK

<u>Sample I.D.</u>	<u>Work Order Number</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Analysis Required</u>
A2A300124-1	ETEWO	GW-012902-202021-LM-001	2002-01-29	508 PCB (AS Aroclors) 01201
A2A300124-1 D	ETEWO	GW-012902-202021-LM-001	2002-01-29	
A2A300124-1 S	ETEWO	GW-012902-202021-LM-001	2002-01-29	

(ABC)

Need detection limit and analysis date included in report.

Shipping Method: COURIER

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: [Signature] Date/Time: 1-30-02 11:00

Relinquished by: [Signature] Date/Time: [Signature]

Received lab by: S. Reach Date/Time: 2-1-02

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

# CRA

CONESTOGA-ROVERS & ASSOCIATES  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

*ATEL c/o STL-North Canton*

## CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:

*13968*

PROJECT NAME:

*Gr-Bedford*

*J747*

SAMPLER'S SIGNATURE:

*Lisa Meoli*

PRINTED NAME:

*Lisa Meoli*

No. OF CONTAINERS

PARAMETERS

*GW-201508*

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
1	1/29/02	1335	GW-012902-202021-LM-001	WATER	2		
2	1/29/02	1335	GW-012902-202021-LM-001	"	2		MS/MSd
3	1/29/02	1335	GW-012902-202021-LM-002	"	2		
<del>           (The rest of the table is crossed out with a large X)         </del>							

*\*Please supply individual Analytic Report.*

*\*Ref. July 2001 QAP*

*\*TAT=2 wk Final Report*

*\*CRA Contact Paul by 3/3/02*

TOTAL NUMBER OF CONTAINERS

*6*

RELINQUISHED BY:

① *Lisa Meoli*

DATE: *1/29/02*  
 TIME: *7:00*

RECEIVED BY:

②

DATE:  
 TIME:

RELINQUISHED BY:

②

DATE:  
 TIME:

RECEIVED BY:

③

DATE:  
 TIME:

RELINQUISHED BY:

③

DATE:  
 TIME:

RECEIVED BY:

④

DATE:  
 TIME:

METHOD OF SHIPMENT:

*1/29/02*  
*Fed Ex Courier*

AIR BILL No.

White - Fully Executed Copy  
 Yellow - Receiving Laboratory Copy  
 Pink - Shipper Copy  
 Gold d - Sampler Copy

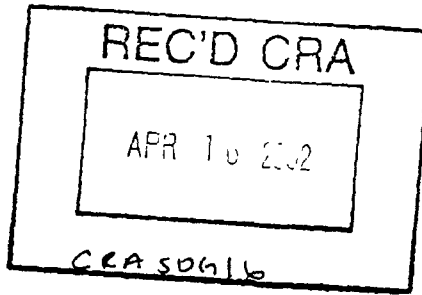
SAMPLE TEAM:

*Lisa Meoli*  
*George Seng*

RECEIVED FOR LABORATORY BY:

*Derry Burns*  
 DATE: *1/30/02* TIME: *7:45AM*

08434



STL North Canton  
4101 Shuffel Drive NW  
North Canton OH 44720-6961

Tel 330 497 9396  
Fax 330 497 0772  
www.stl-nc.com

### ANALYTICAL REPORT

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2A300126

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2A300126

SEVERN TRENT LABORATORIES, INC Name: Bedford

#### Description

Event: Stream Inveti

Samples: 1-GW (1/19 - 002)

Analysis: PCB

TAT: 2wk

Lab: STL / ATEL

Checked Against Preliminary Data:

Date: 4/14/02 Init.: LN

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

Amy L. McCormick  
Project Manager

April 15, 2002

## CASE NARRATIVE

A2A300126

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received January 30, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

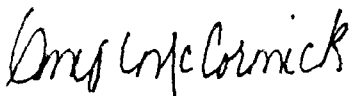
Preliminary results were provided to the Chemistry Department on February 25, 2002

### Sample ID Cross Reference

CRA  
GW-012902-202021-LM-002

STL  
A2A300126-001

Aqua Tech  
MEL02-01202



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 13-Feb-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-01202

Your Sample ID: A2A300126-1

Date Logged In: 2/4/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 2/1/2002

PO#: SR036249

### - COLLECTION INFORMATION -

Date/Time/By: 1/29/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	2/4/02	2/4/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

### --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01202	508	Decachlorobiphenyl (Surr)	46 %R *	70	130
		Low surrogate recovery.			
MEL02-01202	508	Tetrachloro-m-xylene (Surr)	99 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2A300126-1

Lab Number MEL02-01202

Laboratory: Aqua Tech Environmental Labs  
PO BOX 436

Severn Trent Laboratories, Inc  
SAMPLE ANALYSIS REQUISITION  
Lab Request SR036249

Report Package: Expanded Deliverables

Need Analytical Report 2002-02-06

MARION, OH 43301-0436

Client Code: 57787

Project Manager: AMY MCCORMICK

<u>Sample I.D.</u>	<u>Work Order Number</u>	<u>Client Sample ID</u>
A2A300126-1	ETEXH	GW-012902-202021-LM-002

Sampling Date  
2002-01-29

Analysis Required  
508 PCB (PJS Analytical) 01/29/02  
(11)

Need detection limit and analysis date included in report.

Shipping Method: COURIER

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: [Signature] Date/Time: 1-30-02 1115

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by lab by: S. Roach Date/Time: 2-1-02

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):  
**ATEL c/o STL - North Canton**

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:  
**13968**

PROJECT NAME:  
**GM-Batford J747**

SAMPLER'S SIGNATURE: *Lisa Meoli* PRINTED NAME: **Lisa Meoli**

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
1	1/24/02	1335	GW-012902-202021-LM-001	WATER	2	✓	
2	1/29/02	1335	GW-012902-202021-LM-001	"	2	✓	MS/MSD
3	1/29/02	1335	GW-012902-202021-LM-002	"	2	✓	
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							
<del>...</del>							

TOTAL NUMBER OF CONTAINERS **6**

RELINQUISHED BY: <b>1 Lisa Meoli</b>	DATE: 1/29/02	RECEIVED BY: <b>2</b>	DATE:
	TIME: 1800		TIME:
RELINQUISHED BY: <b>3</b>	DATE:	RECEIVED BY: <b>3</b>	DATE:
	TIME:		TIME:
RELINQUISHED BY: <b>3</b>	DATE:	RECEIVED BY: <b>4</b>	DATE:
	TIME:		TIME:

METHOD OF SHIPMENT: **1/29/02 Fed Ex Courier** AIR BILL No.

White - Fully Executed Copy	SAMPLE TEAM: <i>Lisa Meoli</i> <i>George Beng</i>	RECEIVED FOR LABORATORY BY: <i>Denny Burns</i>
Yellow - Receiving Laboratory Copy		DATE: 1/30/02 TIME: 7:45 AM
Pink - Shipper Copy		<b>08134</b>
Goldery - Sampler Copy		



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961  
Tel: 330 497 9396  
Fax 330 497 0772  
www.stl-nc.com

**ANALYTICAL REPORT**

PROJECT NO. 13968  
GM-BEDFORD  
Lot #: A2A300128

APR 16 2002  
CRA SP617

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

**ORIGINAL ANALYTICAL REPORT**

Project#: 13968 Lab#: A2A300128

SEVERN TRENT LABORATORIES, INC. Name: Bedford

Description

Event: Stream Invert.  
Samples: 7-0 (1/29-601)  
Analysis: PCD

*Amy L. McCormick*  
Amy L. McCormick  
Project Manager

TAT: 2wk  
Lab: STL

Checked Against Preliminary Data:

Date: 4/16/02 Init.: m

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

April 15, 2002

## CASE NARRATIVE

A2A300128

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received January 30, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

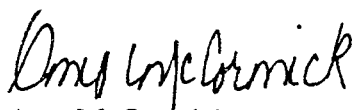
Preliminary results were provided to the Chemistry Department on February 25, 2002

### Sample ID Cross Reference

CRA  
GW-012902-B809012-LM-001

STL  
A2A300128-001

Aqua Tech  
MEL02-01203



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories Inc

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 13-Feb-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attu:

Our Lab#: MEL02-01203

Your Sample ID: A2A300128-1

Date Logged In: 2/4/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 2/1/2002

PO#: SR036250

## - COLLECTION INFORMATION -

Date/Time/By: 1/29/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	2/4/02	2/4/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01203	508	Decachlorobiphenyl (Surr)	46 %R *	70	130
		Low surrogate recovery			
MEL02-01203	508	Tetrachloro-m-xylene (Surr)	74 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2A300128-1

Lab Number MEL02-01203

Laboratory: Aqua Tech Environmental Labs  
PO BOX 436

Severn Trent Laboratories, Inc  
SAMPLE ANALYSIS REQUISITION  
Lab Request SR036250

Report Package: Expanded Deliverables  
Need Analytical Report 2002-02-06

MARION, OH 43301-0436

Client Code: 57787

Project Manager: AMY MCCORMICK

<u>Sample I.D.</u>	<u>Work Order Number</u>	<u>Client Sample ID</u>
A2A300128-1	ETEXQ	GW-012902-B809012-LM-001

Sampling Date  
2002-01-29

Analysis Required

508 PCB (AS ANALYSIS) 0120.3  
(AR)

Need detection limit and analysis date included in report.

Shipping Method: COURIER

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: [Signature] Date/Time: 1-30-02 1115

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received for lab by: S. Roach Date/Time: 2-1-02

PLEASE RETURN ORIGIN. SAMPLE ANALYSIS REQUISITION

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL c/o STL-North Canton

3747

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

13968

PROJECT NAME:

GM-Bedford

SAMPLER'S SIGNATURE:

Lisa C Meath

PRINTED NAME:

Lisa C Meath

PARAMETERS

IN-PCB(38)

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	REMARKS
1	1/29/02	1420	GW-012902-B80922-LM-001	Water	2	
<p><del>Table content is crossed out with a large X.</del></p>						
						<p>Ⓚ Please supply individual analytical reports.</p>
						<p>* Ref. July 2001 QAPP</p> <p>* TAT = 2 wk Field Report</p> <p>* CRA Contact = Paul Wiseman</p>

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
① Lisa C Meath	1/29/02	②	
	TIME: 1800		TIME:
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
②		③	
	TIME:		TIME:
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
③		④	
	TIME:		TIME:

METHOD OF SHIPMENT: Fed Ex Courier

AIR BILL No.

- White - Fully Executed Copy
- Yellow - Receiving Laboratory Copy
- Pink - Shipper Copy
- Goldenrod - Sampler Copy

SAMPLE TEAM:

L Meath  
G. Seng

RECEIVED FOR LABORATORY BY:

Gerry Burns  
DATE: 1/30/02 TIME: 7:45 AM

08432

MAR 27 2002  
CRA SDH 18



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT

PROJECT NO. 013968

GMPT BEDFORD

Lot #: A2B130106

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2B130106

SEVERN TRENT LABORATORIES, INC. Name: Bedford

Description

Event: GW Sampling

Samples: I-W (2/12-001)

Analysis: PCB

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

Turn: 2WK

Lab: STL

Chemical Agents: no data

Date: 3/27/02 by: me

Date of Validation: Micro

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

March 26, 2002

# CASE NARRATIVE

A2B130106

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received February 13, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided

Preliminary results were provided to the Chemistry Department on March 22, 2002.

## Sample ID Cross Reference

CRA  
GW-021202-314012-JK-001

STL  
A2B130106-001

Aqua Tech  
MEL02-01700

  
Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 11-Mar-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-01700

Your Sample ID: A2B130106-1

Date Logged In: 2/14/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 2/14/2002

PO#: SR036496

## - COLLECTION INFORMATION -

Date/Time/By: 2/12/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	2/18/02	2/21/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l u5	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l u5	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l u5	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l u5	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l u5	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l u5	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l u5	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01700	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	10 %R *	70	130
MEL02-01700	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	48 %R *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2B130106-1

Lab Number MEL02-01700

Laboratory: Aqua Tech Environmental Labs  
PO BOX 436

MARION, OH 43301-0436

Client Code: 57787

Severn Trent Laboratories, Inc  
SAMPLE ANALYSIS REQUISITION  
Lab Request SR036496

Report Package: Expanded Deliverables  
Need Analytical Report 2002-02-27

Project Manager: AMY MCCORMICK 330-966-9787

<u>Sample I.D.</u>	<u>Work Order Number</u>	<u>Client Sample ID</u>
A2B130106-1	ET2H7	GW-021202-314012-JK-001

Sampling Date  
2002-02-12

Analysis Required

508 DRINKING WATER PCB

01700 (AB)

Need detection limit and analysis date included in report.

Shipping Method: COURIER

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: [Signature] Date/Time: 2-13-02 0930

Relinquished by: [Signature] Date/Time: 2-13-02 11:00

Received for lab by: [Signature] Date/Time: 2-13-02 11:00

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

A.T.E.L. (IN CARE OF S.T.L. NORTH CANTON)

PAGE 1/1  
COOLER: H158

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:  
013968

PROJECT NAME:  
GMPT BEDFORD

SAMPLER'S SIGNATURE: *Jeff Kolodziejcki*

PRINTED NAME: JEFF KOLODZIEJSKI

No. OF CONTAINERS

PARAMETERS

PCB's

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
	2/14/02	1150	<del>CW-16-021202-JK-001-2/12/02</del> 6W-021202-314012-JK-001	WATER	2	X	
(The rest of the table is crossed out with a diagonal line.)							

TOTAL NUMBER OF CONTAINERS 2

RELINQUISHED BY: *Jeff Kolodziejcki*

DATE: 2/12/02  
TIME: 1700

RECEIVED BY: ②

DATE:  
TIME:

RELINQUISHED BY: ②

DATE:  
TIME:

RECEIVED BY: ③

DATE:  
TIME:

RELINQUISHED BY: ③

DATE:  
TIME:

RECEIVED BY: ④

DATE:  
TIME:

METHOD OF SHIPMENT: COURIER

AIR BILL No.

White - Fully Executed Copy  
Yellow - Receiving Laboratory Copy  
Pink - Shipper Copy  
Gold - Sampler Copy

SAMPLE TEAM:  
J.K., M.D.

RECEIVED FOR LABORATORY BY:

DATE: 2-13-02 TIME: 0800

593



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel 330 497 9396  
Fax 330 497 0772  
www.stl-nco.com

### ANALYTICAL REPORT

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2C130107

APR 23 2002  
CRASD6 21

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT  
Project#: 13968 Lab#: A2C130107

Name: Bedford

SEVERN TRENT LABORATORIES, INC.

Description

Event: \_\_\_\_\_

Samples 4W (3/12 - 1-2 T + D)

Analysis PCB

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

T 2 wk

I STL/ATEL

Check \_\_\_\_\_

i 4/23/02 \_\_\_\_\_

Date \_\_\_\_\_

In \_\_\_\_\_

C \_\_\_\_\_

April 20, 2002

## CASE NARRATIVE

A2C130107

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The samples were received March 13, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 3, 2002

### Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-031202-206012-JK-001	A2C130107-001	MEL02-02847
GW-031202-206012-JK-001DISS	A2C130107-002	MEL02-02848
GW-031202-206012-JK-002	A2C130107-003	MEL02-02849
GW-031202-206012-JK-002DISS	A2C130107-004	MEL02-02850



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 22-Mar-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-02847

Your Sample ID: A2C130107-1

Date Logged In: 3/14/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/13/2002

PO#: SR037079

## - COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	3/15/02	3/18/02		
	CAS Number	Parameter		Result	Typical Report Limit
	Low Surrogate recovery, ok by client to report per Sue S. 03-22-02				
	12674-11-2	Aroclor 1016	UJ	<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221	R	<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232	UJ	<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242	UJ	<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248	UJ	<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254	UJ	<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260	UJ	<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02847	508	Decachlorobiphenyl (Surr)	24 %R *	70	130
		Low surrogate recovery.			
MEL02-02847	508	Tetrachloro-m-xylene (Surr)	63 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2C130107-1

Lab Number MEL02-02847

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 22-Mar-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-02848

Your Sample ID: A2C130107-2

Date Logged In: 3/14/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/13/2002

PO#: SR037079

## - COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	3/15/02	3/18/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221 R		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02848	508	Decachlorobiphenyl (Surr)	60 %R *	70	130
		Low surrogate recovery.			
MEL02-02848	508	Tetrachloro-m-xylene (Surr)	90 %R	70	130

End of Report

Report Approved By: Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2C130107-2

Lab Number MEL02-02848

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 22-Mar-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-02849

Your Sample ID: A2C130107-3

Date Logged In: 3/14/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/13/2002

PO#: SR037079

## - COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	3/15/02	3/18/02		
	CAS Number	Parameter		Result	Typical Report Limit
	Low Surrogate recovery, ok by client to report per Sue S. 03-22-02				
	12674-11-2	Aroclor 1016 UJ		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221 R		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232 UJ		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242 UJ		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248 UJ		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254 UJ		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260 UJ		< 0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02849	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	24 %R *	70	130
MEL02-02849	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	57 %R *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2C130107-3

Lab Number MEL02-02849

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 22-Mar-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-02850

Your Sample ID: A2C130107-4

Date Logged In: 3/14/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/13/2002

PO#: SR037079

## - COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	3/15/02	3/18/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221 R		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02850	508	Decachlorobiphenyl (Surr)	44 %R *	70	130
		Low surrogate recovery.			
MEL02-02850	508	Tetrachloro-m-xylene (Surr)	95 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2C130107-4

Lab Number MEL02-02850

**CRA**  
 CONESTOGA-ROVERS & ASSOCIATES  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933  
**CHAIN OF CUSTODY RECORD**

SHIPPED TO (Laboratory Name):  
 ATEL C/O STL - North Canton  
 COOLER: K 311  
 PAGE: 1 of 1

REFERENCE NUMBER: 13968  
 PROJECT NAME: GU-Bedford

SAMPLER'S SIGNATURE: Jeff Kolodziecki  
 PRINTED NAME: JEFF KOLODZIEJSKI

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS			REMARKS
						TAU-PB-K650	DISSOLVED	TOTAL	
	3/12/02	1130	GW-031202-206012-JK-001	WATER	8	x	x	x	MS/MSD
	↓	1200	↓ JK-002	↓	4	x	x	x	

TOTAL NUMBER OF CONTAINERS 12

RELINQUISHED BY: ① Jeff Kolodziecki	DATE: 3/12/02 TIME: 1600	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex AIR BILL No.

White - Fully Executed Copy  
 Yellow - Receiving Laboratory Copy  
 Pink - Shipper Copy  
 Gold - Sampler Copy

SAMPLE TEAM: Kolodziecki

RECEIVED FOR LABORATORY BY: Anne Sanders  
 DATE: 3-13-02 TIME: 7:45

OR411

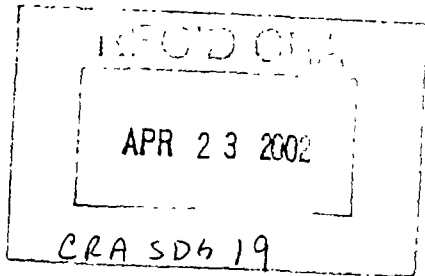


STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stlinc.com

### ANALYTICAL REPORT

PROJECT NO. 13968  
GM-BEDFORD  
Lot #: A2C220121



Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2C220121  
Name: Bedford

SEVERN TRENT LABORATORIES, INC.

#### Description

Event: \_\_\_\_\_

Samples: 2-W (3h1 - T+D)

Analysis: PCB

*Amy McCormick*

Amy L. McCormick  
Project Manager

T: 2WK

L: STL

Check \_\_\_\_\_ Preliminary Data:

4/23/02 Init.: W

D: \_\_\_\_\_ Memo: \_\_\_\_\_

I: \_\_\_\_\_ Approval Date: \_\_\_\_\_

C: \_\_\_\_\_

April 20, 2002

## CASE NARRATIVE

A2C220121

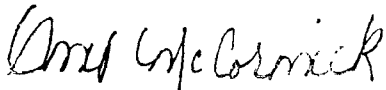
The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The samples were received March 22, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 11, 2002

### Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-032102-413-JW-001	A2C220121-001	MEL02-03426
GW-032102-413-JW-001DISS	A2C220121-002	MEL02-03427
GW-032102-413-JW-002	A2C220121-003	MEL02-03428
GW-032102-413-JW-002DISS	A2C220121-004	MEL02-03429



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 04-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03426

Your Sample ID: A2C220121-1

Date Logged In: 3/26/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/26/2002

PO#: SR037335

## - COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	3/27/2002	4/1/2002		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03426	508	Decachlorobiphenyl (Surr)	59 %R *	70	130
		Low surrogate recovery.			
MEL02-03426	508	Tetrachloro-m-xylene (Surr)	94 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2C220121-1

Lab Number MEL02-03426

# ATEL

Aqua Tech Environmental Laboratories, Inc

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 04-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03427

Your Sample ID: A2C220121-2

Date Logged In: 3/26/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/26/2002

PO#: SR037335

## - COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	3/27/2002	4/1/2002		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03427	508	Decachlorobiphenyl (Surr)	59 %R *	70	130
		Low surrogate recovery.			
MEL02-03427	508	Tetrachloro-m-xylene (Surr)	99 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2C220121-2

Lab Number MEL02-03427

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 04-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03428

Your Sample ID: A2C220121-3

Date Logged In: 3/26/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/26/2002

PO#: SR037335

## - COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	3/27/2002	4/1/2002		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03428	508	Decachlorobiphenyl (Surr)	62 %R *	70	130
		Low surrogate recovery.			
MEL02-03428	508	Tetrachloro-m-xylene (Surr)	89 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2C220121-3

Lab Number MEL02-03428

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 04-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03429

Your Sample ID: A2C220121-4

Date Logged In: 3/26/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 3/26/2002

PO#: SR037335

## - COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	3/27/2002	4/1/2002		
	CAS Number	Parameter			
	17674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03429	508	Decachlorobiphenyl (Surr)	64 %R *	70	130
		Low surrogate recovery.			
MEL02-03429	508	Tetrachloro-m-xylene (Surr)	94 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2C220121-4

Lab Number MEL02-03429

# CRA

CONESTOGA-ROVERS & ASSOCIATES  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL 00 SN-NORTH CAUTION K-236 10-F-1

REFERENCE NUMBER:  
139168

PROJECT NAME:

GM-Redford

PARAMETERS TOTAL DISSOLVED

SAMPLER'S SIGNATURE:

*Gene Nestic* PRINTED NAME: Lisa Medli

REMARKS

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	% OF CONTAINERS	REMARKS
1	3-21-02	1120	GW-032102-413-JW-001	H2O	8	XX
2	3-21-02	1122	GW-032102-413-JW-002	H2O	4	XX
TOTAL NUMBER OF CONTAINERS 12						

\*Reference 7/3001 CRAPP  
 \*TAT-2WK FROM RE  
 \*VSA Contained -  
 P. Wiselway

RELINQUISHED BY: *John Woods*

DATE: 3-21-02  
 TIME: 1800

RECEIVED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 TIME: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_

DATE: \_\_\_\_\_  
 TIME: \_\_\_\_\_

RECEIVED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 TIME: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_

DATE: \_\_\_\_\_  
 TIME: \_\_\_\_\_

RECEIVED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 TIME: \_\_\_\_\_

METHOD OF SHIPMENT: *General*

AIR BILL No. \_\_\_\_\_

- White - Fully Executed Copy
- Yellow - Receiving Laboratory Copy
- Pink - Shipper Copy
- Gold - Sampler Copy

SAMPLE TEAM:

*LMede*

RECEIVED FOR LABORATORY BY:

*Gene Nestic*

DATE: 3-28-02 TIME: 8:00

07405



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-nc.com

### ANALYTICAL REPORT

APR - 3 2002  
CRA SDG 20

PROJECT NO. 13968  
GM-BEDFORD  
Lot #: A2C220148

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT  
Project#: 13968 Lab#: A2C220148  
Name: GM Bedford

SEVERN TRENT LABORATORIES, INC.

Description  
Event: \_\_\_\_\_  
Samples: 1-GW (3/21-003)  
Analysis: PCB-T+D

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

Lab: STL

Checked Against Preliminary Data:  
Date: NA Init.: MSC  
Date of Validation Memo: \_\_\_\_\_  
Invoice Approval Date: \_\_\_\_\_  
Comments: \_\_\_\_\_

April 2, 2002

# SAMPLE SUMMARY

A2C220148

<u>NO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
EWR0C	001	GW-032102-413-JW-003	03/21/02	11:24
EWR0F	002	GW-032102-413-JW-003DISS	03/21/02	11:24

## 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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Labor y Name):

COOLER: *11 1/2*

*STL-NORTH CANTON*

REFERENCE NUMBER:

PROJECT NAME:

*13968*

*GM-BEDFORD*

**CHAIN OF CUSTODY RECORD**

SAMPLER'S SIGNATURE:

*[Signature]*

PRINTED NAME:

*JOHN S. WEINBERGER*

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS										REMARKS						
						TOTAL PCBs	DISSOLVED PCBs															
<i>1</i>	<i>03/21/02</i>	<i>11:24</i>	<i>GW-032102-413-JW-003</i>	<i>WATER</i>	<i>4</i>	<i>X</i>	<i>X</i>														<i>DW-PCBs (508)</i>	

TOTAL NUMBER OF CONTAINERS *4*

RELINQUISHED BY: <i>[Signature]</i>	DATE: <i>3/21/02</i>	RECEIVED BY: <i>[Signature]</i>	DATE: _____
①	TIME: <i>18:00</i>	②	TIME: _____
RELINQUISHED BY: _____	DATE: _____	RECEIVED BY: _____	DATE: _____
②	TIME: _____	③	TIME: _____
RELINQUISHED BY: _____	DATE: _____	RECEIVED BY: _____	DATE: _____
③	TIME: _____	④	TIME: _____

METHOD OF SHIPMENT: *COURIER* AIR BILL No. \_\_\_\_\_

White - Fully Executed Copy	SAMPLE TEAM: <i>WEINBERGER</i>  <i>MEOLI</i>	RECEIVED FOR LABORATORY BY: <i>[Signature]</i>
Yellow - Receiving Laboratory Copy		DATE: <i>3-22-02</i> TIME: <i>0800</i>
Pink - Shipper Copy		
Goldenrod - Sampler Copy		<i>07403</i>

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-032102-413-JW-003

GC Semivolatiles

Lot-Sample #....: A2C220148-001    Work Order #....: EWR0CLAA    Matrix.....: WG  
 Date Sampled....: 03/21/02 11:24    Date Received...: 03/22/02  
 Prep Date.....: 03/22/02    Analysis Date...: 03/24/02  
 Prep Batch #....: 2081138  
 Dilution Factor: 1    Initial Wgt/Vol: 1000 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1016	ND	0.20	ug/L	0.054
Aroclor 1221	ND	0.20	ug/L	0.11
Aroclor 1232	ND	0.40	ug/L	0.056
Aroclor 1242	ND	0.20	ug/L	0.075
Aroclor 1248	ND	0.20	ug/L	0.061
Aroclor 1254	ND	0.20	ug/L	0.082
Aroclor 1260	ND	0.20	ug/L	0.044

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	71	(45 - 120)
Decachlorobiphenyl	42	(24 - 128)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-032102-413-JW-003DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2C220148-002 Work Order #...: EWROF1AA Matrix.....: WG  
 Date Sampled...: 03/21/02 11:24 Date Received...: 03/22/02  
 Prep Date.....: 03/22/02 Analysis Date...: 03/25/02  
 Prep Batch #...: 2081139  
 Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Dissolved Aroclor-1016	ND R	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND R	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND R	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND R	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND R	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND R	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND R	0.20	ug/L	0.044

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Tetrachloro-m-xylene	8.9 *	(45 - 120)
acachlorobiphenyl	64	(24 - 128)

NOTE(S):

\* Surrogate recovery is outside stated control limits.



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720 6961

Tel 330 497 9396  
Fax 330 497 0772  
www.stl-nc.com

### ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2C290102

REC'D  
APR 23 2002  
CRA SDA 29

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT

Project# 13968 Lab# A2C290102

Name: Bedford

SEVERN TRENT LABORATORIES, INC.

Description

Event: GW

Samples: 2-W (2/16) 1

Analysis: PCB-T-D

*Amy McCormick*

Amy L. McCormick  
Project Manager

TAT: 2wk

Lab: STL/ATEL

Checked Against Preliminary Data:

Date: 4/2/02 Init.: h

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

April 20, 2002

## CASE NARRATIVE

A2C290102

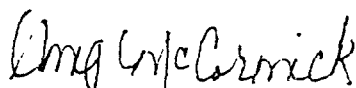
The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received March 29, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided

Preliminary results were provided to the Chemistry Department on April 16, 2002

### Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-032802-216012-GS-001	A2C290102-001	MEL02-03664
GW-032802-216012-GS-001DISS	A2C290102-002	MEL02-03665



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 12-Apr-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03664

Your Sample ID: A2C290102-1

Date Logged In: 4/3/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/2/2002

PO#: SR037485

## - COLLECTION INFORMATION -

Date/Time/By: 3/28/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/3/02	4/9/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03664	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	60 %R *	70	130
MEL02-03664	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	30 %R *	70	130

End of Report

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2C290102-1

Lab Number MEL02-03664

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 12-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03665

Your Sample ID: A2C290102-2

Date Logged In: 4/3/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/2/2002

PO#: SR037485

## - COLLECTION INFORMATION -

Date/Time/By: 3/28/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/3/02	4/9/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03665	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	41 %R *	70	130
MEL02-03665	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	31 %R *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only affect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2C290102-2

Lab Number MEL02-03665

CW182 # 159

**CRA**  
CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):  
STL - NORTH CANTON, NORTH CANTON, OHIO

REFERENCE NUMBER: 13968  
PROJECT NAME: G-MPT-BEDFORD

**CHAIN OF CUSTODY RECORD**

SAMPLER'S SIGNATURE: *George Seng* PRINTED NAME: George Seng

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS		REMARKS
						DISSOLVED PCBs	TOTAL PCBs	
1	03/28/02	11:59	GW-032802-216012-GS-001	WATER	4	X	X	

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: ① <i>George Seng</i>	DATE: 3/28/02 TIME: 17.00	RECEIVED BY: ②	DATE: _____ TIME: _____
RELINQUISHED BY: ②	DATE: _____ TIME: _____	RECEIVED BY: ③	DATE: _____ TIME: _____
RELINQUISHED BY: ③	DATE: _____ TIME: _____	RECEIVED BY: ④	DATE: _____ TIME: _____

METHOD OF SHIPMENT: COURIER AIR BILL No.

White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Gold - Sampler Copy	SAMPLE TEAM: <i>SENG</i> <i>WEINBERGER</i>	RECEIVED FOR LABORATORY BY: <i>Paul Sanders</i> DATE: <i>3/29/02</i> TIME: <i>7:40 AM</i> 07449
---	--	---



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

### ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D030108

APR 23 2002  
CRA SDH 23

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2D030/08

SEVERN TRENT LABORATORIES, INC Name: Bedford

#### Description

Event: \_\_\_\_\_

Samples: 2 - (1/2 - 601 T.D)

Analysis: PCB

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

TAT: 2 wk

Lab: STL / AT&L

Checked Against Preliminary Data:

Date: 4/23/02 Init.: ms

April 20, 2002

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

## CASE NARRATIVE

A2D030108

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received April 3, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 16, 2002

### Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-040202-305012-JW-001	A2D030108-001	MEL02-03767
GW-040202-305012-JW-001DISS	A2D030108-001	MEL02-03768



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 15-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03767

Your Sample ID: A2D030108-1

Date Logged In: 4/4/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/4/2002

PO#: SR037548

## - COLLECTION INFORMATION -

Date/Time/By: 4/2/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/5/02	4/9/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l <u>UJ</u>	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l <u>UJ</u>	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l <u>UJ</u>	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l <u>UJ</u>	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l <u>UJ</u>	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l <u>UJ</u>	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l <u>UJ</u>	0.1

## --- Surrogate Recoveries ---

QC Lab:	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03767	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	68 %R *	70	130
MEL02-03767	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	46 %R *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D030108-1

Lab Number MEL02-03767

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 15-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03768

Your Sample ID: A2D030108-2

Date Logged In: 4/4/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/4/2002

PO#: SR037548

## - COLLECTION INFORMATION -

Date/Time/By: 4/2/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/5/02	4/9/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03768	508	Decachlorobiphenyl (Surr)	83 %R	70	130
MEL02-03768	508	Tetrachloro-m-xylene (Surr)	71 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: A20117, OH4054, NC39701.

Your Sample ID: A2D030108-2

Lab Number MEL02-03768

# CRA

CONESTOGA-ROVERS & ASSOCIATES  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL c/o STL-NORTH CANON

CRA # CR60  
 PAGE: 1 of 1

## CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:  
13968

PROJECT NAME:  
GMPT-BEDFORD

SAMPLER'S SIGNATURE: *John Wenberger* PRINTED NAME: John Wenberger

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	NO. OF CONTAINERS		PARAMETERS	REMARKS
					1	2		
1	09/26/02	1411	GM-040202-305012-JW-001	WATER	4	X	TOTAL PCBs DISCLOSED	
TOTAL NUMBER OF CONTAINERS					4			

RELINQUISHED BY: *John Wenberger* DATE: 09/26/02 TIME: 18:00 RECEIVED BY: DATE: TIME:   
 RELINQUISHED BY: DATE: TIME: RECEIVED BY: DATE: TIME:   
 RELINQUISHED BY: DATE: TIME: RECEIVED BY: DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.   
 SAMPLE TEAM: SEND, WENBERGER RECEIVED FOR LABORATORY BY: *John Wenberger* DATE: 9/26/02 TIME: 7 AM   
 White - Fully Executed Copy   
 Yellow - Receiving Laboratory Copy   
 Pink - Shipper Copy   
 Colde - Sampler Copy   
 WEINBERGER



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-hnc.com

# ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D050102

CRA SDH 28

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

## ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2D050102

SEVERN TRENT LABORATORIES, INC. Name: Bedford  
Description

Event: \_\_\_\_\_

Samples: 2-4 (1/4 - 1 T.D)

Analysis: PCB

*Amy L. McCormick*  
Amy L. McCormick  
Project Manager

TAT: 2002

Lab: STL/ATEL

Checked Against Preliminary Data:

Date: 4/24/02 Init.: lw

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

April 20, 2002

## CASE NARRATIVE

A2D050102

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc from the GMPT Bedford Site, project number 13968. The sample was received April 5, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 19, 2002.

### Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-040402-472-JW-001	A2D050102-001	MEL02-03946
GW-040402-472-JW-001DISS	A2D050102-002	MEL02-03947



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories Inc

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 18-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn: Amy McCormick

Our Lab#: MEL02-03946

Your Sample ID: A2D050102-1

Date Logged In: 4/8/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/8/2002

PO#: SR037656

### - COLLECTION INFORMATION -

Date/Time/By: 4/4/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/9/02	4/15/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		1.7 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

### --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03946	508	Decachlorobiphenyl (Surr) Low surrogate recovery	38 %R *	70	130
MEL02-03946	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery	33 %R *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications AZ0117, OH#054, VC39701

Your Sample ID: A2D050102-1

Lab Number MEL02-03946

# ATEL

Aqua Tech Environmental Laboratories, Inc

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 18-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn: Amy McCormick

Our Lab#: MEL02-03947

Your Sample ID: A2D050102-2

Date Logged In: 4/8/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/8/2002

PO#: SR037656

## - COLLECTION INFORMATION -

Date/Time/By: 4/4/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/9/02	4/15/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03947	508	Decachlorobiphenyl (Surr)	34 %R *	70	130
		Low surrogate recovery			
MEL02-03947	508	Tetrachloro-m-xylene (Surr)	35 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D050102-2

Lab Number MEL02-03947

# CRA

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL c/o STL-NORTH CANTON

COURT NO  
NUMBER 100-1

## CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:  
13968

PROJECT NAME:  
GMPY-BEDFORD

SAMPLER'S SIGNATURE: *John Wenzel* PRINTED NAME: John Wenzel

SEQ. NO.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	NO. OF CONTAINERS	PARAMETERS	REMARKS
----------	------	------	------------	---------------	-------------------	------------	---------

01/10/02 1158 GW-040402-472-JW-001

WATER

4

X X

Dispersed PCBs  
Total PCBs

TOTAL NUMBER OF CONTAINERS 4

①	RELINQUISHED BY: <i>John Wenzel</i>	DATE: 01/10/02	RECEIVED BY: _____	DATE: _____
②	RELINQUISHED BY: _____	DATE: 10:30	RECEIVED BY: _____	DATE: _____
③	RELINQUISHED BY: _____	DATE: _____	RECEIVED BY: _____	DATE: _____

METHOD OF SHIPMENT: COURIER

AIR BILL No. \_\_\_\_\_

White	-Fully Executed Copy	SAMPLE TEAM:	RECEIVED FOR LABORATORY BY:
Yellow	-Receiving Laboratory Copy	SENG KOLODZIEJSKI	<i>John Sadowski</i>
Pink	-Shipper Copy	WEINBERGER	DATE: 01/15/02 TIME: 7:40
Gold	-Sampler Copy		7458



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stlinc.com

# ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D050102

CRA SDH 28

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

## ORIGINAL ANALYTICAL REPORT

Project# 13968 Lab# A2D050102

SEVERN TRENT LABORATORIES, INC.

Name Bedford

Description

Event: \_\_\_\_\_

Samples: 2-u (4/4 - 1 TID)

Analysis: PCB

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

TAT: 2 W/L

Lab: STL / ATEL

Checked Against Preliminary Data:

Date: 4/24/02 Init.: AW

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

April 20, 2002

## CASE NARRATIVE

A2D050102

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received April 5, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 19, 2002

### Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-040402-472-JW-001	A2D050102-001	MEL02-03946
GW-040402-472-JW-001DISS	A2D050102-002	MEL02-03947



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## CERTIFICATE OF ANALYSIS -

Client #: 10467

Report Date: 18-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn: Amy McCormick

Our Lab#: MEL02-03946

Your Sample ID: A2D050102-1

Date Logged In: 4/8/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/8/2002

PO#: SR037656

### - COLLECTION INFORMATION -

Date/Time/By: 4/4/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/9/02	4/15/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		1.7 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

### --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03946	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	38 %R *	70	130
MEL02-03946	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	33 %R *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only affect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D050102-1

Lab Number MEL02-03946

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 18-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn: Amy McCormick

Our Lab#: MEL02-03947

Your Sample ID: A2D050102-2

Date Logged In: 4/8/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/8/2002

PO#: SR037656

## - COLLECTION INFORMATION -

Date/Time/By: 4/4/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/9/02	4/15/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03947	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	34 %R *	70	130
MEL02-03947	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	35 %R *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only affect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D050102-2

Lab Number MEL02-03947

**CRA**CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL c/o STL-NORTH CANTON

COURIER NA  
PRICE: 15.51

## CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:

13968

PROJECT NAME:

GMPT-BEDFORD

SAMPLER'S  
SIGNATURE:*John Weinberger*PRINTED  
NAME:

JOHN WEINBERGER

No. OF  
CONTAINERS

PARAMETERS

Dissolved  
PCBS  
TOTAL PCBS

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS										REMARKS					
	01/04/02	11.58	GW-040402-472-JW-001	WATER	4	X	X														

TOTAL NUMBER OF CONTAINERS

4

RELINQUISHED BY:

①

*John Weinberger*

DATE: 01/04/02

TIME: 18:30

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT: COURIER

AIR BILL No.

White

-Fully Executed Copy

Yellow

-Receiving Laboratory Copy

Pink

-Shipper Copy

Gold

-Sampler Copy

SAMPLE TEAM:

SENG, KOLOBZIEJSKI

WEINBERGER

RECEIVED FOR LABORATORY BY:

*Anil Saini*

DATE: 01/04/02 TIME: 7:40

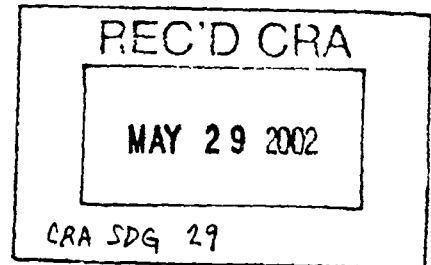
07458

**SEVERN  
TRENT  
SERVICES**

STL North Canton  
4101 Shuffel Drive NW  
North Canton OH 44720-6961

Tel 330 497 9396  
Fax 330 497 0772  
www.stl-inc.com

**ANALYTICAL REPORT**



PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D100105

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

**ORIGINAL ANALYTICAL REPORT**

Project#: 13968 Lab#: A2D100105

Name: GM-BEDFORD

**Description**

Event: OFFSITE GW (DW) ANALYSIS

SEVERN TRENT LABORATORIES, INC.

Samples: 2 WATERS (JW 001, 002)

Analysis: PCBS;

TAT: STNDRD TAT (14 DAYS)

Lab: STL-NC / ATEL.

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

Checked Against Preliminary Data:

Date: \_\_\_\_\_ Init: \_\_\_\_\_

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

May 28, 2002

## CASE NARRATIVE

A2D100105

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received April 10, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 30, 2002.

### Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-040902-414-JW-001	A2D100105-001	MEL02-04316
GW-040902-414-JW-001DISS	A2D100105-002	MEL02-04317
GW-040902-414-JW-002	A2D100105-003	MEL02-04318
GW-040902-414-JW-002DISS	A2D100105-004	MEL02-04319



Amy McCormick  
Project Manager



# ATEL



Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 29-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04316

Your Sample ID: A2D100105-1

Date Logged In: 4/16/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037832

### COLLECTION INFORMATION

Date Time By: 4/15/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	<0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	<0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	<0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	<0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	<0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	<0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	<0.10 ug/l	0.1	

### --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04316	508	Decachlorobiphenyl (Surr)	28 %R *	70	130
		Low surrogate recovery.			
MEL02-04316	508	Tetrachloro-m-xylene (Surr)	72 %R	70	130

End of Report

Report Approved By:

Wade T. DeLong  
Wade T DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D100105-1

Lab Number MEL02-04316

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 29-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04317

Your Sample ID: A2D100105-2

Date Logged In: 4/16/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037832

## - COLLECTION INFORMATION -

Date/Time/By: 4/9/02

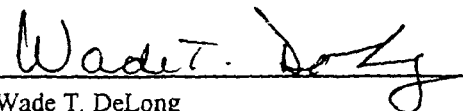
EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter		Result	Typical Report Limit
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04317	508	Decachlorobiphenyl (Surr)	63 %R *	70	130
		Low surrogate recovery.			
MEL02-04317	508	Tetrachloro-m-xylene (Surr)	88 %R	70	130

End of Report

Report Approved By:

  
Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2D100105-2

Lab Number MEL02-04317

# ATEL

Aqua Tech Environmental Laboratories, Inc

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 29-Apr-02

STL North Canton

4101 Shufeldt Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04318

Your Sample ID: A2D100105-3

Date Logged In: 4/16/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037832

## - COLLECTION INFORMATION -

Date/Time/By: 4/9/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04318	508	Decachlorobiphenyl (Surr)	33 %R *	70	130
		Low surrogate recovery.			
MEL02-04318	508	Tetrachloro-m-xylene (Surr)	80 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2D100105-3

Lab Number MEL02-04318

# ATEL

Aqua Tech Environmental Laboratories, Inc

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 29-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04319

Your Sample ID: A2D100105-4

Date Logged In: 4/16/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037832

### - COLLECTION INFORMATION -

Date/Time/By: 4/9/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1	

### --- Surrogate Recoveries ---

QC Lab #	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04319	508	Decachlorobiphenyl (Surr)	72 %R	70	130
MEL02-04319	508	Tetrachloro-m-xylene (Surr)	47 %R *	70	130

Low surrogate recovery

End of Report

Report Approved By: Wade T. DeLong

Wade T DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701

Your Sample ID: A2D100105-4

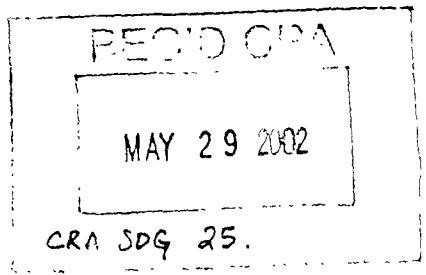
Lab Number MEL02-04319



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6901

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-nc.com

### ANALYTICAL REPORT



PROJECT NO. 13968  
GMPT-BEDFORD  
Lot #: A2D110111

Paul Wiseman

Conestoga Rovers & Assoc **ORIGINAL ANALYTICAL REPORT**  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170  
Project#: 13968 Lab#: A2D110111  
Name: GM-BEDFORD

**Description**

Event: OFFSITE GW (PW) ANALYSIS

Samples: 3 WATERS (LH 001, 002)

SEVERN TRENT LABORATORIES, Analysis: PCBS;

TAT: STNDRD TAT (14 DAYS)

Lab: STL-NC / ATEL.

Checked Against Preliminary Data:

*Amy McCormick* Date: \_\_\_\_\_ Init: \_\_\_\_\_  
Date of Validation Memo: \_\_\_\_\_

Amy L. McCormick Project Manager Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

May 28, 2002

# CASE NARRATIVE

A2D110111

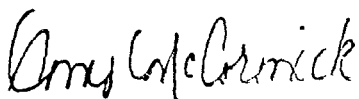
The following report contains the analytical results for three water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received April 11, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 30, 2002.

## Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-041002-115012-LM-001	A2D110111-001	MEL02-04311
GW-041002-115012-LM-001DISS	A2D110111-002	MEL02-04312
GW-041002-115012-JW-002	A2D110111-003	MEL02-04313
GW-041002-115012-JW-002DISS	A2D110111-004	MEL02-04314
GW-041002-115012-JW-001	A2D110111-005	MEL02-04315



Amy McCormick  
Project Manager

# ATEI

Aqua Tech Environmental Laboratories, Inc

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 29-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

Attn:

FAX: (330) 497-0772

Our Lab#: MEL02-04311

Your Sample ID: A2D110111-1 D+S

Date Logged In: 4/15/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037834

### - COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1	

### --- Surrogate Recoveries ---

QC Lab	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-C-511	508	Decachlorobiphenyl (Surr)	28 %R *	70	130
		Low surrogate recovery			
MEL02-04311	508	Tetrachloro-m-xylene (Surr)	74 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications AZ0117, OH4054, NC39701

Your Sample ID: A2D110111-1 D+S

Lab Number MEL02-04311

# ATEL

Aqua Tech Environmental Laboratories, Inc

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 29-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04312

Your Sample ID: A2D110111-2 D+S

Date Logged In: 4/16/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037834

### - COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

### --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04312	508	Decachlorobiphenyl (Surr)	67 %R *	70	130
		Low surrogate recovery			
MEL02-04312	508	Tetrachloro-m-xylene (Surr)	82 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications AZ0117, OH4054, NC39701

Your Sample ID: A2D110111-2 D+S

Lab Number MEL02-04312

# ATEL

Aqua Tech Environmental Laboratories, Inc

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 29-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04313

Your Sample ID: A2D110111-3

Date Logged In: 4/16/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037834

## - COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l UJ	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04313	508	Decachlorobiphenyl (Surr)	32 %R *	70	130
		Low surrogate recovery.			
MEL02-04313	508	Tetrachloro-m-xylene (Surr)	64 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By:

Wade T. DeLong  
Wade T DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701

Your Sample ID: A2D110111-3

Lab Number MEL02-04313

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 29-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04314

Your Sample ID: A2D110111-4

Date Logged In: 4/16/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037834

## - COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l UJ	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04314	508	Decachlorobiphenyl (Surr)	26 %R *	70	130
		Low surrogate recovery.			
MEL02-04314	508	Tetrachloro-m-xylene (Surr)	60 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D110111-4

Lab Number MEL02-04314

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 29-Apr-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04315

Your Sample ID: A2D110111-5

Date Logged In: 4/16/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/12/2002

PO#: SR037834

## - COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	4/15/02	4/18/02		
	CAS Number	Parameter		Result	Typical Report Limit
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

### --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04315	508	Decachlorobiphenyl (Surr)	55 %R *	70	130
		Low surrogate recovery.			
MEL02-04315	508	Tetrachloro-m-xylene (Surr)	77 %R	70	130

End of Report

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH#054, NC39701.

Your Sample ID: A2D110111-5

Lab Number MEL02-04315

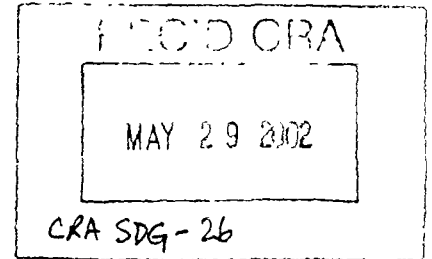




STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel 330 497 9396  
Fax 330 497 0772  
www.stl-nc.com

# ANALYTICAL REPORT



PROJECT NO. 13968  
GM-BEDFORD  
Lot #: A2D160105

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT  
Project#: 13968 Lab#: A2D160105  
Name: GM BEDFORD

SEVERN TRENT LABORATORIES, INC. Event: OFFSITE GW(DW) ANALYSIS  
Description  
Samples: 1 WATER (JW-001)  
Analysis: PCBS; T+D

TAT: STNDRD TAT (14 DAYS)

Lab: STL-NC - ATEL

*Amy L. McCormick*  
Amy L. McCormick  
Project Manager

Checked Against Preliminary Data:

Date: 5/30/02 Init.: lm

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

May 28, 2002

## CASE NARRATIVE

A2D160105

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received April 16, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

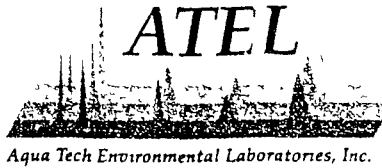
Preliminary results were provided to the Chemistry Department on May 8, 2002.

### Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-041502-403014-JW-001	A2D160105-001	MEL02-04628
GW-041502-403014-JW-001DISS	A2D160105-002	MEL02-04629



Amy McCormick  
Project Manager



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 03-May-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04628

Your Sample ID: A2D160105-1

Date Logged In: 4/19/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/18/2002

PO#: SR037915

**- COLLECTION INFORMATION -**

Date/Time/By: 4/15/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/19/02	4/22/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l UJ	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04628	508	Decachlorobiphenyl (Surr)	22 %R *	70	130
		Low surrogate recovery.			
MEL02-04628	508	Tetrachloro-m-xylene (Surr)	47 %R *	70	130
		Low surrogate recovery.			

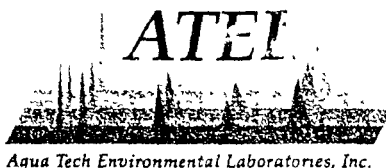
**End of Report**

Report Approved By: Wade T. DeLong  
Wade T DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2D160105-1

Lab Number MEL02-04628



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 03-May-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04629

Your Sample ID: A2D160105-2

Date Logged In: 4/19/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/18/2002

PO#: SR037915

**- COLLECTION INFORMATION -**

Date/Time/By: 4/15/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/19/02	4/22/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l UJ	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04629	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	18 %R *	70	130
MEL02-04629	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	26 %R *	70	130

*End of Report*

Report Approved By: Wade T. DeLong

Wade T DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2D160105-2

Lab Number MEL02-04629

**CRA**  
**CONESTOGA-ROVERS & ASSOCIATES**  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):  
*ATEL C/O STL-N. Canton*  
*Cooler FL Buffalo*

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER: *13968*  
 PROJECT NAME: *GM Bedford*

SAMPLER'S SIGNATURE: *A. De Meoli* PRINTED NAME: *USA Meoli*

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS				REMARKS
1	4-15-02	1410	GM-041502-403514-JW-001	WATER	4	2	2			

*TOT. RECEIVED 4*  
*DISPATCHED*

TOTAL NUMBER OF CONTAINERS: *4*

RELINQUISHED BY: ① <i>A. De Meoli</i>	DATE: <i>4-15-02</i> TIME: <i>1441</i>	RECEIVED BY: ② _____	DATE: _____ TIME: _____
RELINQUISHED BY: ② _____	DATE: _____ TIME: _____	RECEIVED BY: ③ _____	DATE: _____ TIME: _____
RELINQUISHED BY: ③ _____	DATE: _____ TIME: _____	RECEIVED BY: ④ _____	DATE: _____ TIME: _____

METHOD OF SHIPMENT: *Courier* AIR BILL No. \_\_\_\_\_

White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy	SAMPLE TEAM: <i>Medi, Weinberger, Seng</i>	RECEIVED FOR LABORATORY BY: <i>HATEL SAW Jerry Bunn</i> DATE: <i>4/16/02</i> TIME: <i>7Am</i> <b>07765</b>
--	---	---



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel 330 497 9396  
Fax 330 497 0772  
www.stlinc.com

### ANALYTICAL REPORT

SD CRA  
MAY - 7 2002  
CRA SD 6 27

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D180105

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2D180105

Name: Bedford

SEVERN TRENT LABORATORIES, INC.

Description

Event: \_\_\_\_\_

Samples: 2-W (4/17-01-02)

Analysis: PCB-T+D

*Amy L. McCormick* / ATFL 2WX

Amy L. McCormick  
Project Manager

Lab: STL/ATFL

Checked Against Preliminary Data:

Date: \_\_\_\_\_ Init.: \_\_\_\_\_

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

May 6, 2002

**SAMPLE SUMMARY**  
**A2D180105**

<u>WO#</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
EX3N5	001	GW-041702-1277025-LM-001	04/17/02	12:05
EX3PC	002	GW-041702-1277025-LM-001DISS	04/17/02	12:05
EX3PE	003	GW-041702-1277025-LM-002	04/17/02	15:05
EX3PG	004	GW-041702-1277025-LM-002DISS	04/17/02	15:05

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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 02-May-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04769

Your Sample ID: A2D180105-001

Date Logged In: 4/24/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/23/2002

PO#: SR037982

## - COLLECTION INFORMATION -

Date/Time/By: 4/17/02

A Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
S08	MRW	4/23/02	4/26/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l UJ	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04769	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	30 %R *	70	130
MEL02-04769	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	45 %R *	70	130

End of Report

Report Approved By:

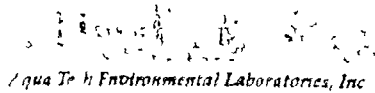
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D180105-001

Lab Number MEL02-04769

# ATEL



## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 02-May 02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04770

Your Sample ID: A2D180105-002

Date Logged In: 4/24/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/23/2002

PO#: SR037982

## - COLLECTION INFORMATION -

Date/Time/By: 4/17/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Units
508	MRW	4/23/02	4/26/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	UJ 0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	UJ 0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	UJ 0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	UJ 0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	UJ 0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	UJ 0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	UJ 0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04770	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	33 %R *	70	130
MEL02-04770	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery	47 %R *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2D180105-002

Lab Number MEL02-04770

STL North Canton

# ATEL

Aqua Tech Environmental Laboratories, Inc

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 02-May-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04771

Your Sample ID: A2D180105-003

Date Logged In: 4/24/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/23/2002

PO#: SR037982

## - COLLECTION INFORMATION -

Date/Time/By: 4/17/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	4/23/02	4/26/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04771	508	Decachlorobiphenyl (Surr)	43 %R *	70	130
		Low surrogate recovery.			
MEL02-04771	508	Tetrachloro-m-xylene (Surr)	60 %R *	70	130
		Low surrogate recovery			

End of Report

Report Approved By:

Wade T. DeLong  
Wade T DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701

Your Sample ID: A2D180105-003

Lab Number MEL02-04771

STL North Canton

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: 10467

Report Date: 02-May-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04772

Your Sample ID: A2D180105-004

Date Logged In: 4/24/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/23/2002

PO#: SR037982

## - COLLECTION INFORMATION -

Date/Time/By: 4/17/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
505	KRW	4/23/02	4/26/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04772	508	Decachlorobiphenyl (Surr)	45 %R *	70	130
		Low surrogate recovery.			
MEL02-04772	508	Tetrachloro-m-xylene (Surr)	70 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701

Your Sample ID: A2D180105-004

Lab Number MEL02-04772

STL North Canton

3300 STATE ST. N. CANTON, OH 44705-4000

10

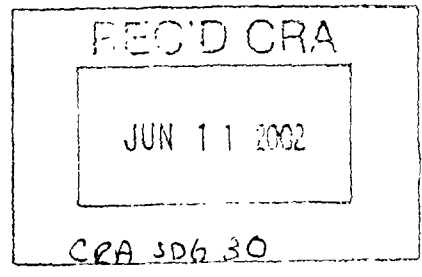




STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.st-inc.com

### ANALYTICAL REPORT



PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2E080109

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2E080109

Name: GM Bedford

SEVERN TRENT LABORATORIES, INC.

#### Description

Event: Stream - DW

Samples: 2 - W (5/9 - 001)

Analysis: PCB - T.D

*Amy L. McCormick* 1/15/02 2wk

Amy L. McCormick  
Project Manager

Lab: STL

Checked Against Preliminary Data:

Date: \_\_\_\_\_ Init.: \_\_\_\_\_

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

June 6, 2002

## SAMPLE SUMMARY

A2E080109

<u>WO#</u>	<u>LOT #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E03NT	A2E080109-001	G-050702-206012-JW-001	05/08/02	13:44
E03NW	A2E080109-002	G-050702-206012-JW-001DISS	05/08/02	13:44

### 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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 31-May-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-05794

Your Sample ID: A2E080109-1

Date Logged In: 5/14/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 5/10/2002

PO#: SR038489

## - COLLECTION INFORMATION -

Date/Time/By: 5/7/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	5/15/02	5/27/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-05794	508	Decachlorobiphenyl (Surr)	53 %R *	70	130
		Low surrogate recovery.			
MEL02-05794	508	Tetrachloro-m-xylene (Surr)	70 %R	70	130

End of Report

Report Approved By:

Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2E080109-1

Lab Number MEL02-05794

STL North Canton

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999  
PHONE 419 207 2650 • 1 800 959 8859 • FAX 419 207 2200

17

# ATEL

Aqua Tech Environmental Laboratories, Inc

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 31-May-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-05795

Your Sample ID: A2E080109-2

Date Logged In: 5/14/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 5/10/2002

PO#: SR038489

## - COLLECTION INFORMATION -

Date/Time/By: 5/7/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	5/15/02	5/27/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-05795	508	Decachlorobiphenyl (Surr)	52 %R *	70	130
		Low surrogate recovery.			
MEL02-05795	508	Tetrachloro-m-xylene (Surr)	88 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2E080109-2

Lab Number MEL02-05795

**CRA**  
**CONESTOGA-ROVERS & ASSOCIATES**  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): *ATEL* c/o *STL-NORTH CANTON* COOLER: *D214*

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER: *13968* PROJECT NAME: *GMPT-BEDFORD*

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: *JOHN S. WEINBERGER*

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS			REMARKS
						DISSOLVED	PCBS	TOTAL PCBS	
	<i>05/02/02</i>	<i>13:44</i>	<i>GW-050702-206012-JW-001</i> <i>BOTTLES FOR DISSOLVED ANALYSIS</i> <i>HAVE NOT BEEN FILTERED. PLEASE</i> <i>FILTER PRIOR TO ANALYSIS</i>	<i>WATER</i>	<i>4</i>	<i>X</i>	<i>X</i>		
TOTAL NUMBER OF CONTAINERS					<i>4</i>				

RELINQUISHED BY: ① <i>[Signature]</i>	DATE: <i>05/02/02</i> TIME: <i>18:00</i>	RECEIVED BY: ②	DATE: _____ TIME: _____
RELINQUISHED BY: ②	DATE: _____ TIME: _____	RECEIVED BY: ③	DATE: _____ TIME: _____
RELINQUISHED BY: ③	DATE: _____ TIME: _____	RECEIVED BY: ④	DATE: _____ TIME: _____

METHOD OF SHIPMENT: *COURIER* AIR BILL No. \_\_\_\_\_

White - Fully Executed Copy Yellow - Receiving Laboratory Copy Pink - Shipper Copy Goldenrod - Sampler Copy	SAMPLE TEAM: <i>SENG, MEDCI</i> <i>WEINBERGER</i>	RECEIVED FOR LABORATORY BY: <i>[Signature]</i> DATE: <i>5-8-02</i> TIME: <i>7:45</i>	<b>07894</b>
--	---	--	--------------



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44700-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-nc.com

# ANALYTICAL REPORT

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2E090107

RECEIVED  
JUN 11 2002  
CRA SDG 31

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

## ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2E090107

Name: GM Bedford

SEVERN TRENT LABORATORIES, INC.

### Description:

Event: Stream DW

Samples: 2 - W (S/B - 001)

Analysis: PCB - T-D

*Amy L. McCormick* / *AMS*  
TAT: 2012

Amy L. McCormick  
Project Manager

Lab: STL

Checked Against Preliminary Data:

Date: \_\_\_\_\_ Init.: \_\_\_\_\_

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

June 6, 2002

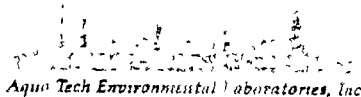
**SAMPLE SUMMARY**  
A2E090107

<u>WO#</u>	<u>LOT #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E05MC	A2E090107-001	G-050802-514013-JW-001	05/09/02	11:21
E05ME	A2E090107-002	G-050802-514013-JW-001DISS	05/09/02	11:21

**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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

# ATEL



## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 03-Jun-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-05852

Your Sample ID: A2E090107-1

Date Logged In: 5/15/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 5/14/2002

Form#: SR038516

### - COLLECTION INFORMATION -

Date/Time/By: 5/8/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	5/15/02	5/22/02		
	<b>CAS Number</b>	<b>Parameter</b>			
	12674-11-2	Aroclor 1016		< 0.08 ug/l <i>US</i>	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l <i>US</i>	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l <i>US</i>	0.1
	53469-21-9	Aroclor 1242		0.74 ug/l <i>J</i>	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l <i>US</i>	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l <i>US</i>	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l <i>US</i>	0.1

### --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-05852	508	Decachlorobiphenyl (Surr)	59 %R *	70	130
		Low surrogate recovery.			
MEL02-05852	508	Tetrachloro-m-xylene (Surr)	50 %R *	70	130
		Low surrogate recovery.			

*End of Report*

Report Approved By: Wade T. DeLong

Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2E090107-1

Lab Number MEL02-05852

# ATEL

Aqua Tech Environmental Laboratories, Inc.

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 03-Jun-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-05853

Your Sample ID: A2E090107-2

Date Logged In: 5/15/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 5/14/2002

PO#: SR038516

## - COLLECTION INFORMATION -

Date/Time/By: 5/8/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	5/15/02	5/22/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

## --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-05853	508	Decachlorobiphenyl (Surr)	79 %R	70	130
MEL02-05853	508	Tetrachloro-m-xylene (Surr)	74 %R	70	130

End of Report

Report Approved By: Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2E090107-2

Lab Number MEL02-05853

# CRA

CONESTOGA-ROVERS & ASSOCIATES  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)386-9933

## CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): **AT EL 9/0**  
 REFERENCE NUMBER: **13968**  
 PROJECT NAME: **GM-Redford**  
 SHIP TO: **STL-N, Carlson**  
 DATE: **Page 1 of 1**  
 CONTROL: **11/05/99**

SAMPLER'S SIGNATURE: *John Weinberger* PRINTED NAME: **JOHN WEINBERGER**

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
----------	------	------	------------	---------------	-------------------	------------	---------

1	5/8/02	1121	GW-050802-514013-JW-021	UMBER	4	XX	
---	--------	------	-------------------------	-------	---	----	--

TOTAL NUMBER OF CONTAINERS

①	RELINQUISHED BY: <i>John Weinberger</i>	DATE: 5/8/02	RECEIVED BY: ②	DATE: 5/8/02
②	RELINQUISHED BY:	DATE: 1400	RECEIVED BY: ③	DATE:
③	RELINQUISHED BY:	DATE:	RECEIVED BY: ④	DATE:

METHOD OF SHIPMENT: *Over* AIR BILL No.

White	-Fully Executed Copy	SAMPLE TEAM:	RECEIVED FOR LABORATORY BY:
Yellow	-Receiving Laboratory Copy	<i>L. Meedi - E. Vran</i>	<i>[Signature]</i>
Pink	-Shipper Copy	<i>J. Weinberger - G. Seab</i>	<i>[Signature]</i>
Goldenrod	-Sampler Copy		

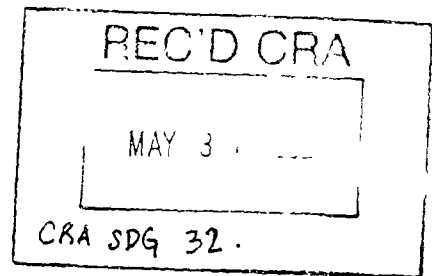


STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel 330 497 9396  
Fax 330 497 0772  
www.stl-nc.com

# ANALYTICAL REPORT

PROJECT NO. 13968  
GMPT-BEDFORD  
Lot #: A2E080107



Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

## ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2E080107  
Name: GM BEDFORD

SEVERN TRENT LABORATORIES, INC  
Description  
Event: GROUNDWATER (DW) ANALYSIS  
Samples: 1 WATER (JW-002)  
Analysis: PCBS, (Dissolved, Total)

TAT: STUDRD TAT (14 DAYS)

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

Lab: STL-NC  
Checked Against Preliminary Data:

Date: 6/10/02 Init.: [Signature]

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

May 27, 2002



# SAMPLE SUMMARY

000080107

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
E03NK	001	GW-050702-200012-JW-002	05/07/02	13:44
E03NL	002	GW-050702-200012-JW-002 (DISS)	05/07/02	13:44

## 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, particulate filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: CW-050702-206012-JW-002

GC Semivolatiles

Lot-Sample #...: A2E080107-001    Work Order #...: E03NK2AA    Matrix.....: WG  
 Date Sampled...: 05/07/02 13:44    Date Received...: 05/08/02  
 Prep Date.....: 05/14/02    Analysis Date...: 05/17/02  
 Prep Batch #...: 2134098  
 Dilution Factor: 100    Initial Wgt/Vol: 1000 mL    Final Wgt/Vol...: 2 ml  
 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULTS</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1016	ND	20	ug/L	5.4
Aroclor 1221	ND	20	ug/L	11
Aroclor 1232	ND	40	ug/L	5.6
Aroclor 1242	ND	20	ug/L	7.5
Aroclor 1248	ND	20	ug/L	6.1
Aroclor 1254	ND	20	ug/L	8.2
Aroclor 1260	ND	20	ug/L	1.4

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	106	(45 - 120)
Decachlorobiphenyl	53	(24 - 128)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-050702-206012-JW-002(DISS)

Dissolved GC Semivolatiles

Lot-Sample #...: A2E080107-002    Work Order #...: E03NL2AA    Matrix.....: WG  
 Date Sampled...: 05/07/02 13:44    Date Received...: 05/08/02  
 Prep Date.....: 05/14/02    Analysis Date...: 05/17/02  
 Prep Batch #...: 2134101  
 Dilution Factor: 1    Initial Wgt/Vol: 1000 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Dissolved Aroclor-1016	ND	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND	0.20	ug/L	0.044

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	86	(45 - 120)
Decachlorobiphenyl	87	(24 - 128)



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel 330 497 9396  
Fax 330 497 0772  
www.stl-nc.com

### ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2E310105

FIELD CRA  
JUL 17 2002  
CRA SDG # 33

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2E310105

Name: GMPT BEDFORD

#### Description

SEVERN TRENT LABORATORIES, INC. Event: GW(DW) ANALYSIS

Samples: GW (JW-001)

Analysis: PCBs; (Total, Dissolved)

TAT: STANDARD TAT (14 DAYS)

Lab: STL-NC.

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

Checked Against Preliminary Data:

Date: 7/25/02 Init.: MBC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

July 15, 2002

**CRA**CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL

COOLPER: J 400

C/O STL-NORTH CANTON

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

13968

PROJECT NAME:

GMPT-BEDFORD

SAMPLER'S SIGNATURE:

PRINTED NAME:

John S. WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS										REMARKS				
						TOTAL PCBS	DISSOLVED PCBs													
	05/30/02	10:15	EB-053002-715013-JW-001	WATER	2	X	X													
	05/30/02	10:30	GW-053002-715013-JW-001	WATER	8	X	X													MS/MSD

TOTAL NUMBER OF CONTAINERS 10

RELINQUISHED BY:

①

DATE: 05/30/02

TIME: 17:45

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

COURIER

AIR BILL No.

White	-Fully Executed Copy
Yellow	-Receiving Laboratory Copy
Pink	-Shipper Copy
Goldenrod	-Sampler Copy

SAMPLE TEAM:

MEOLI, SENG

WEINBERGER

RECEIVED FOR LABORATORY BY:

DATE: 5/31/02 TIME: 8:10

07956

## CASE NARRATIVE

A2E310105

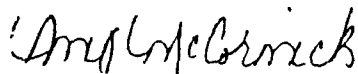
The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received May 31, 2002, according to documented sample acceptance procedures

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided

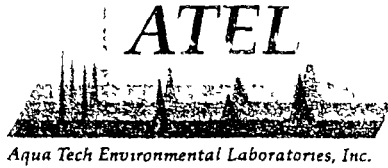
Preliminary results were provided to the Chemistry Department on June 25, 2002

### Sample ID Cross Reference

CRA	STL	Aqua Tech
EB-053002-715013-JW-001	A2E310105-001	MEL02-06650
GW-053002-715013-JW-001	A2E310105-002	MEL02-06651
GW-053002-715013-JW-001 DISS	A2E310105-003	MEL02-06652



Amy McCormick  
Project Manager



**CERTIFICATE OF ANALYSIS -**

**Client #:** I0467

**Report Date:** 14-Jun-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

**Phone:** (330) 497-9396 **Ext:**  
**FAX:** (330) 497-0772

**Attn:**

**Our Lab#:** MEL02-06651

**Your Sample ID:** A2E310105-2DS

**Date Logged In:** 6/5/02

**Sample Source:** SDWA/WTP's

**Sample Type:** Water

**Client Project #:**

**Project #:**

**Date Submitted to Lab:** 6/4/2002

**PO#:** SR039050

**- COLLECTION INFORMATION -**

**Date/Time/By:** 5/30/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	6/5/02	6/7/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

**--- Surrogate Recoveries ---**

Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06651	508	Decachlorobiphenyl (Surr) Matrix effect confirmed by low surrogate for MS and MSD.	39 %R *	70	130
MEL02-06651	508	Tetrachloro-m-xylene (Surr) Matrix effect confirmed by low surrogate for MS and MSD.	50 %R *	70	130

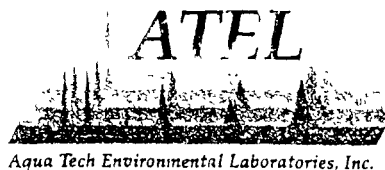
*End of Report*

**Report Approved By:** Wade T. DeLong  
Wade T DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

**Your Sample ID:** A2E310105-2DS

*Lab Number MEL02-06651*



**CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 14-Jun-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-06652

Your Sample ID: A2E310105-3DS

Date Logged In: 6/5/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/4/2002

PO#: SR039050

**- COLLECTION INFORMATION -**

Date/Time/By: 5/30/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	6/5/02	6/7/02		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	<0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	<0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	<0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	<0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	<0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	<0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	<0.10 ug/l	0.1	

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06652	508	Decachlorobiphenyl (Surr)	51 %R *	70	130
		Low surrogate recovery.			
MEL02-06652	508	Tetrachloro-m-xylene (Surr)	72 %R	70	130

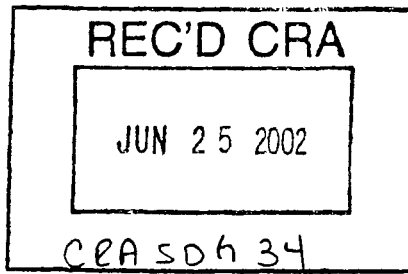
*End of Report*

Report Approved By: Wade T. DeLong  
Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701*

Your Sample ID: A2E310105-3DS

Lab Number MEL02-06652



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel. 330 497 9396  
Fax. 330 497 0772  
www.stl-nc.com

### ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2E310109

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2E310109

Name: GMPT-Bedford

SEVERN TRENT LABORATORIES, INC.

Description

Event: Stream

Samples: 2-W (5/30-02 T+D)

Analysis: PCB

*Amy L. McCormick* / 2WK

Amy L. McCormick  
Project Manager

Lab: STL

Checked Against Preliminary Data:

Date: 7/2/02 Init.: LBE

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

June 19, 2002

## SAMPLE SUMMARY

A2E310109

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
E18VD	001	GW-053002-715013-JW-002	05/30/02	10:30
E18VK	002	GW-053002-715013-JW-002 DISS	05/30/02	10:30

### 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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight



CUNESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-053002-715013-JW-002

GC Semivolatiles

Lot-Sample #...: A2E310109-001 Work Order #...: E18VD2AA Matrix.....: WG  
 Date Sampled...: 05/30/02 10:30 Date Received...: 05/31/02  
 Prep Date.....: 06/05/02 Analysis Date...: 06/07/02  
 Prep Batch #...: 2156123  
 Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol...: 2 ml  
 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND U.S.	0.20	ug/L	0.054
Aroclor 1221	ND U.S.	0.20	ug/L	0.11
Aroclor 1232	ND U.S.	0.40	ug/L	0.056
Aroclor 1242	ND U.S.	0.20	ug/L	0.075
Aroclor 1248	ND U.S.	0.20	ug/L	0.061
Aroclor 1254	ND U.S.	0.20	ug/L	0.082
Aroclor 1260	ND U.S.	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	73	(45 - 120)
Decachlorobiphenyl	15 *	(24 - 128)

NOTE(S):

\* Surrogate recovery is outside stated control limits.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-053002-715013-JW-002 DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2E310109-002    Work Order #...: E18VK1AA    Matrix.....: WC  
 Date Sampled...: 05/30/02 10:30    Date Received...: 05/31/02  
 Prep Date.....: 06/03/02    Analysis Date...: 06/04/02  
 Prep Batch #...: 2154162  
 Dilution Factor: 1    Initial Wgt/Vol: 1000 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Dissolved Aroclor-1016	ND	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND	0.20	ug/L	0.044

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	89	(45 - 120)
Decachlorobiphenyl	79	(24 - 128)

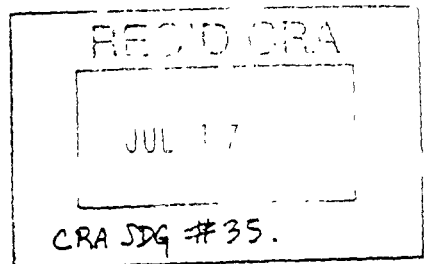


STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-nc.com

### ANALYTICAL REPORT

PROJECT NO. 13968  
GM-BEDFORD  
Lot #: A2F010103



Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT  
Project#: 13968 Lab#: A2F010103  
Name: GMPT BEDFORD

SEVERN TRENT LABORATORIES, INC  
Event: GW (Dw) INVESTIGATION  
Samples: 2 GW (JW 001, 002)  
Analysis: PCBS, (Total, Dissolved)

*Amy McCormick*

Amy L. McCormick  
Project Manager

TAT: STANDARD TAT (14 DAYS)  
Lab: STL-NC.

Checked Against Preliminary Data:  
Date: 7/15/02 Init.: MBC  
Date of Validation Memo: \_\_\_\_\_  
Invoice Approval Date: \_\_\_\_\_  
Comments: \_\_\_\_\_

July 15, 2002

**CRA**  
 CONESTOGA-ROVERS & ASSOCIATES  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):  
 ATEL c/o STL-NORTH CANTON

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:  
 13968

PROJECT NAME:  
 GM-BEDFORD

SAMPLER'S SIGNATURE: *John Weinberger* PRINTED NAME: JOHN WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS											REMARKS									
						TOTAL PCBs	P1550 PCBs	P2030 PCBs	P2031 PCBs	P2032 PCBs	P2033 PCBs	P2034 PCBs	P2035 PCBs	P2036 PCBs	P2037 PCBs	P2038 PCBs		P2039 PCBs								
	05/31/02	10:00	EB-053102-327012-JW-001	WATER	2																					
	↓	10:20	GW-053102-327012-JW-001	WATER	4	X	X																			
	↓	10:40	GW-053102-327012-JW-002	WATER	4	X	X																			
TOTAL NUMBER OF CONTAINERS					10																					

RELINQUISHED BY: ① <i>John Weinberger</i>	DATE: TIME:	RECEIVED BY: ② _____	DATE: TIME:
RELINQUISHED BY: ② _____	DATE: TIME:	RECEIVED BY: ③ _____	DATE: TIME:
RELINQUISHED BY: ③ _____	DATE: TIME:	RECEIVED BY: ④ _____	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White - Fully Executed Copy	SAMPLE TEAM: <i>SENG, WEINBERGER</i>	RECEIVED FOR LABORATORY BY: <i>Paul Sanders</i>	DATE: 6/1/02 TIME: 7:05
Yellow - Receiving Laboratory Copy			
Pink - Shipper Copy			
Goldenrod - Sampler Copy			

07963

# CASE NARRATIVE

A2F010103

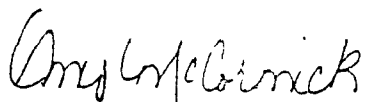
The following report contains the analytical results for three water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc from the GMPT-Bedford Site, project number 13968. The samples were received June 1, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on June 25, 2002

## Sample ID Cross Reference

CRA	STL	Aqua Tech
EB-053102-327012-JW-001	A2F010103-001	MEL02-06645
GW-053102-327012-JW-001	A2F010103-002	MEL02-06646
GW-053102-327012-JW-001 DISS	A2F010103-003	MEL02-06647
GW-053102-327012-JW-002	A2F010103-004	MEL02-06648
GW-053102-327012-JW-002 DISS	A2F010103-005	MEL02-06649



Amy McCormick  
Project Manager



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 14-Jun-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-06646

Your Sample ID: A2F010103-2

Date Logged In: 6/5/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/4/2002

PO#: SR039075

**- COLLECTION INFORMATION -**

Date/Time/By: 5/31/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	6/5/02	6/7/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06646	508	Decachlorobiphenyl (Surr)	44 %R *	70	130
		Low surrogate recovery			
MEL02-06646	508	Tetrachloro-m-xylene (Surr)	57 %R *	70	130
		Low surrogate recovery.			

*End of Report*

Report Approved By: Wade T. DeLong

Wade T DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications AZ0117, OH4054, NC39701*

Your Sample ID: A2F010103-2

Lab Number MEL02-06646



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 14-Jun-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-06647

Your Sample ID: A2F010103-3

Date Logged In: 6/5/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/4/2002

PO#: SR039075

**- COLLECTION INFORMATION -**

Date/Time/By: 5/31/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	6/5/02	6/7/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l UJ	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06647	508	Decachlorobiphenyl (Surr)	71 %R	70	130
MEL02-06647	508	Tetrachloro-m-xylene (Surr)	65 %R *	70	130

Low surrogate recovery.

*End of Report*

Report Approved By: Wade T. DeLong  
Wade T DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2F010103-3

Lab Number MEL02-06647



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 14-Jun-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-06648

Your Sample ID: A2F010103-4

Date Logged In: 6/5/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/4/2002

PO#: SR039075

**- COLLECTION INFORMATION -**

Date/Time/By: 5/31/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	6/5/02	6/7/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06648	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	50 %R *	70	130
MEL02-06648	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	69 %R *	70	130

*End of Report*

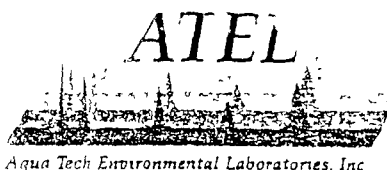
Report Approved By: Wade T. DeLong

Wade T DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2F010103-4

Lab Number MEL02-06648



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 14-Jun-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-06649

Your Sample ID: A2F010103-5

Date Logged In: 6/5/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/4/2002

PO#: SR039075

**- COLLECTION INFORMATION -**

Date/Time/By: 5/31/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	6/5/02	6/7/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06649	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	62 %R *	70	130
MEL02-06649	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery.	52 %R *	70	130

**End of Report**

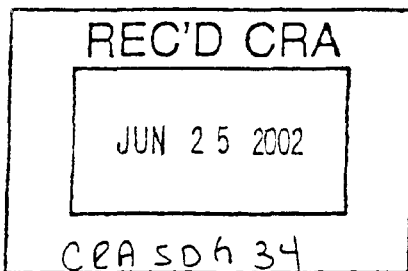
Report Approved By:

*Wade T. DeLong*  
Wade T DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only test those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2F010103-5

Lab Number MEL02-06649



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-nc.com

### ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2E310109

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2E310109

Name: GMPT-Bedford

SEVERN TRENT LABORATORIES, INC.

#### Description

Event: Stream

Samples: 2-W (5/30-02 T+D)

Analysis: PCB

*Amy L McCormick* / *2002*

Amy L. McCormick  
Project Manager

Lab: STL

Checked Against Preliminary Data:

Date: 7/2/02 Init.: LBe

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

June 19, 2002

## SAMPLE SUMMARY

AZE310109

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
E18VD	001	GW-053002-715013-JW-002	05/30/02	10:3
E18VK	002	GW-053002-715013-JW-002 DISS	05/30/02	10:3

### 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, partic filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

**CRA**

CONESTOGA-ROVERS &amp; ASSOCIATES

8615 W. Bryn Mawr Avenue

Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

STL-NORTH CANTON

COOLER

013

REFERENCE NUMBER:

13968

PROJECT NAME

GMPT-BEDFORD

## CHAIN OF CUSTODY RECORD

SAMPLER'S  
SIGNATURE:*John Weinberger*PRINTED  
NAME:

JOHN WEINBERGER

No. OF  
CONTAINERS

PARAMETERS

TOTAL PCBs  
DISCLOSED

REMARKS

SEQ.  
No.

DATE

TIME

SAMPLE No.

SAMPLE  
MATRIXNo. OF  
CONTAINERS

X X

05/30/02

10 30

GW 05 3002 715013-JW-002

WATER

4

TOTAL NUMBER OF CONTAINERS

4

RELINQUISHED BY:

① *John Weinberger*

DATE: 05/30/02

TIME: 17:45

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

COURIER

AIR BILL No.

White  
Yellow  
Pink  
Goldenrod- Fully Executed Copy  
- Receiving Laboratory Copy  
- Shipper Copy  
- Sampler Copy

SAMPLE TEAM:

MCCOY, SENG

WEINBERGER

RECEIVED FOR LABORATORY BY:

*John Weinberger*

DATE: 5/31/02 TIME: 8:10

07957

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-053002-715013-JW-002

GC Semivolatiles

Lot-Sample #....: A2E310109-001    Work Order #....: E18VD2AA    Matrix.....: WG  
 Date Sampled...: 05/30/02 10:30    Date Received...: 05/31/02  
 Prep Date.....: 06/05/02    Analysis Date...: 06/07/02  
 Prep Batch #....: 2156123  
 Dilution Factor: 1    Initial Wgt/Vol: 1000 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND UJ	0.20	ug/L	0.054
Aroclor 1221	ND UJ	0.20	ug/L	0.11
Aroclor 1232	ND UJ	0.40	ug/L	0.056
Aroclor 1242	ND UJ	0.20	ug/L	0.075
Aroclor 1248	ND UJ	0.20	ug/L	0.061
Aroclor 1254	ND UJ	0.20	ug/L	0.082
Aroclor 1260	ND UJ	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	73	(45 - 120)
Decachlorobiphenyl	15 *	(24 - 128)

NOTE(S):

\* Surrogate recovery is outside stated control limits.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-053002-715013-JW-002 DISS

Dissolved GC Semivolatiles

Lot-Sample #....: A2E310109-002    Work Order #....: E18VK1AA    Matrix.....: WG  
 Date Sampled...: 05/30/02 10:30    Date Received...: 05/31/02  
 Prep Date.....: 06/03/02    Analysis Date...: 06/04/02  
 Prep Batch #....: 2154162  
 Dilution Factor: 1    Initial Wgt/Vol: 1000 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dissolved Aroclor-1016	ND	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND	0.20	ug/L	0.044

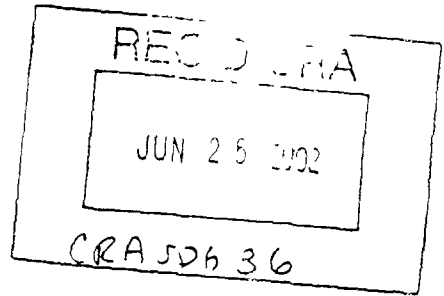
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
tetrachloro-m-xylene	89	(45 - 120)
Decachlorobiphenyl	79	(24 - 128)



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-nc.com

# ANALYTICAL REPORT



PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2F010102

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

## ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2F010102

Name: GM Bedford

SEVERN TRENT LABORATORIES, INC.

### Description

Event: Stream

Samples: 2-W (5/31-003)

Analysis: PCB-T-D

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

Lab: 2.2K

Checked Against Preliminary Data:

Date: 7/9/02 Init.: lw

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

June 20, 2002

# SAMPLE SUMMARY

A2F010102

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
E2AR7	001	053102-327012-003	05/31/02	11:00
E2AR8	002	053102-327012-003 DISS	05/31/02	11:00

## 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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-053102-327012-GW-003

GC Semivolatiles

Lot-Sample #....: A2F010102-001    Work Order #....: E2AR72AA    Matrix.....: WG  
 Date Sampled....: 05/31/02 11:00    Date Received...: 06/01/02  
 Prep Date.....: 06/05/02    Analysis Date...: 06/07/02  
 Prep Batch #....: 2156123  
 Dilution Factor: 1    Initial Wgt/Vol: 1000 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND UJ	0.20	ug/L	0.054
Aroclor 1221	ND UJ	0.20	ug/L	0.11
Aroclor 1232	ND UJ	0.40	ug/L	0.056
Aroclor 1242	ND UJ	0.20	ug/L	0.075
Aroclor 1248	ND UJ	0.20	ug/L	0.061
Aroclor 1254	ND UJ	0.20	ug/L	0.082
Aroclor 1260	ND UJ	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	69	(45 - 120)
Decachlorobiphenyl	19 *	(24 - 128)

NOTE(S):

\* Surrogate recovery is outside stated control limits.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-053102-327012-JW-003 DISS

Dissolved GC Semivolatiles

Lot-Sample #....: A2F010102-002    Work Order #....: E2AR81AA    Matrix.....: WG  
 Date Sampled...: 05/31/02 11:00    Date Received...: 06/01/02  
 Prep Date.....: 06/03/02    Analysis Date...: 06/04/02  
 Prep Batch #....: 2154162  
 Dilution Factor: 1    Initial Wgt/Vol: 1000 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Dissolved Aroclor-1016	ND	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND	0.20	ug/L	0.044

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	68	(45 - 120)
Decachlorobiphenyl	81	(24 - 128)



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-nc.com

# ANALYTICAL REPORT

REC'D CRA  
JUN 25 2002  
CRA 506 37

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2F060115

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

## ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2F060115

SEVERN TRENT LABORATORIES, INC. Name: Bedford

### Description

Event: Stream

Samples: 2-(45-001-003)

Analysis: PCB-T-D

*Amy L. McCormick*  
TAT: B 2WK

Amy L. McCormick  
Project Manager

Lab: STL

Checked Against Preliminary Data:

Date: 7/1/02 Init.: L

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

June 21, 2002

# SAMPLE SUMMARY

A2F060115

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAM TIME</u>
E2JHK	001	GW-060502-421-JW-001	06/05/02	11
E2JHN	002	GW-060502-421-JW-001DISS	06/05/02	11
E2JHP	003	GW-060502-619013-LM-003	06/05/02	15
E2JHQ	004	GW-060502-619013-LM-003DISS	06/05/02	15

## NOTES(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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
 8615 W. Bryn Mawr Avenue  
 Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

STL-North Canton Cooler LCM

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

13968

PROJECT NAME:

GIMPT- Bedford

SAMPLER'S SIGNATURE:

*John Weinberger*

PRINTED NAME:

John Weinberger

No. OF CONTAINERS

PARAMETERS

TOTAL PCBs  
 DISS. PCBs

REMARKS

SEQ. No.

DATE

TIME

SAMPLE No.

SAMPLE MATRIX

1  
2

6/5/02  
6/5/02

11:26  
15:30

GW-060502-421-JW-001  
GW-060502-619013-LM-003

H2O  
H2O

4  
4

X  
XX

TOTAL NUMBER OF CONTAINERS

8

RELINQUISHED BY:

① *John Weinberger*

DATE: 6/5/02  
 TIME: 1600

RECEIVED BY:

②

DATE:  
 TIME:

RELINQUISHED BY:

②

DATE:  
 TIME:

RECEIVED BY:

③

DATE:  
 TIME:

RELINQUISHED BY:

③

DATE:  
 TIME:

RECEIVED BY:

④

DATE:  
 TIME:

METHOD OF SHIPMENT: *Courier*

AIR BILL No.

White  
 Yellow  
 Pink  
 Golden

-Fully Executed Copy  
 -Receiving Laboratory Copy  
 -Shipper Copy  
 -Sampler Copy

SAMPLE TEAM:

*J. Weinberger**G. Seng L.M. li*

RECEIVED FOR LABORATORY BY:

*[Signature]*

DATE: 6-6-02 TIME: 0740

07970

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060502-421-JW-001

GC Semivolatiles

Lot-Sample #...: A2F0G0115-001    Work Order #...: E2JHR2AA    Matrix.....: WG  
 Date Sampled...: 06/05/02 11:26    Date Received...: 06/06/02  
 Prep Date.....: 06/10/02    Analysis Date...: 06/12/02  
 Prep Batch #...: 2161407  
 Dilution Factor: 1    Initial Wgt/Vol: 1000 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND UJ	0.20	ug/L	0.054
Aroclor 1221	ND UJ	0.20	ug/L	0.11
Aroclor 1232	ND UJ	0.40	ug/L	0.056
Aroclor 1242	0.13 UJ	0.20	ug/L	0.075
Aroclor 1248	ND UJ	0.20	ug/L	0.061
Aroclor 1254	ND UJ	0.20	ug/L	0.082
Aroclor 1260	ND UJ	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	63	(45 - 120)
Decachlorobiphenyl	11 *	(24 - 128)

NOTE(S):

- \* Surrogate recovery is outside stated control limits
- † Estimated result. Result is less than RL.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060502-421-JW-001DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2F060115-002 Work Order #...: E2JHN2AA Matrix.....: WG  
 Date Sampled...: 06/05/02 11:26 Date Received...: 06/06/02  
 Prep Date.....: 06/10/02 Analysis Date...: 06/12/02  
 Prep Batch #...: 2161408  
 Dilution Factor: 1 Initial Wgt/Vol: 800 mL Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dissolved Aroclor-1016	ND UJ	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND UJ	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND UJ	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND UJ	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND UJ	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND UJ	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND UJ	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	71	(45 - 120)
Decachlorobiphenyl	14 *	(24 - 128)

NOTE(S):

- Surrogate recovery is outside stated control limits.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060502-619013-LM-003

GC Semivolatiles

Lot-Sample #...: A2F060115-003 Work Order #...: E2JHP2AA Matrix.....: WG  
 Date Sampled...: 06/05/02 15:30 Date Received...: 06/06/02  
 Prep Date.....: 06/10/02 Analysis Date...: 06/12/02  
 Prep Batch #...: 2161407  
 Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.20	ug/L	0.054
Aroclor 1221	ND	0.20	ug/L	0.11
Aroclor 1232	ND	0.40	ug/L	0.056
Aroclor 1242	0.16 #5	0.20	ug/L	0.075
Aroclor 1246	ND	0.20	ug/L	0.061
Aroclor 1254	ND	0.20	ug/L	0.082
Aroclor 1260	ND	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	73	(45 - 120)
Decachlorobiphenyl	39	(24 - 128)

NOTE(S):

1 Estimated result. Result is less than RL.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060502-619013-LM-003DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2F060115-004    Work Order #...: E2JHQ2AA    Matrix.....: WG  
 Date Sampled...: 06/05/02 15:30    Date Received...: 06/06/02  
 Prep Date.....: 06/10/02    Analysis Date...: 06/12/02  
 Prep Batch #...: 2161408  
 Dilution Factor: 1    Initial Wgt/Vol: 1000 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Dissolved Aroclor-1016	ND	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND	0.20	ug/L	0.044

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	71	(45 - 120)
Decachlorobiphenyl	40	(24 - 128)



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

# ANALYTICAL REPORT

REC'D CRA  
JUL 16 2002  
CRA SDG # 38

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2F060113

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

## ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2F060113  
Name: GMPT BEDFORD

### Description

SEVERN TRENT LABORATORIES, INC. Event: GW (DW) INVESTIGATION.  
Samples: 2 WATERS (JW-002, LM-004)  
Analysis: PCBS. (Total, Dissolved)

TAT: STANDARD TAT (14 DAYS)

Lab: STL-NC.

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

Checked Against Preliminary Data:

Date: 7/26/02 Init.: mm

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

July 15, 2002

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL c/o STL

Cooler 002 004

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

13968

PROJECT NAME:

GMP-Bedford

SAMPLER'S SIGNATURE:

*John Weinberger*

PRINTED NAME:

John Weinberger

SEQ. No.

DATE

TIME

SAMPLE No.

SAMPLE MATRIX

No. OF CONTAINERS

PARAMETERS

REMARKS

1

6/5/02

11:28

GW-060502-421-JW-002

H<sub>2</sub>O

4

TOTAL PCBs  
DSS-PCBs

X X

2

6/5/02

15:35

GW-060502-619-013-LM-004

H<sub>2</sub>O

4

X X

TOTAL NUMBER OF CONTAINERS

8

RELINQUISHED BY:

①

*Lisa Medi*

DATE: 6/5/02  
TIME: 1600

RECEIVED BY:

②

DATE:  
TIME:

RELINQUISHED BY:

②

DATE:  
TIME:

RECEIVED BY:

③

DATE:  
TIME:

RELINQUISHED BY:

③

DATE:  
TIME:

RECEIVED BY:

④

DATE:  
TIME:

METHOD OF SHIPMENT:

Courier

AIR BILL No.

White  
Yellow  
Pink  
Gold

-Fully Executed Copy  
-Receiving Laboratory Copy  
-Shipper Copy  
-Sampler Copy

SAMPLE TEAM:

John Weinberger  
Lisa Medi, Gear Seng

RECEIVED FOR LABORATORY BY:

*[Signature]*  
DATE: 6-6-02 TIME: 0740

07969

# CASE NARRATIVE

A2F060113

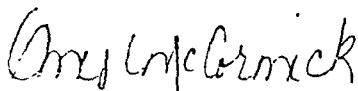
The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc from the GMPT-Bedford Site, project number 13968. The samples were received June 6, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on June 26, 2002.

## Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-060502-421-JW-002	A2F060113-001	MEL02-06982
GW-060502-421-JW-002DISS	A2F060113-002	MEL02-06983
GW-060502-619013-LM-004	A2F060113-003	MEL02-06984
GW-060502-619013-LM-004DISS	A2F060113-004	MEL02-06985



Amy McCormick  
Project Manager

# ATEL

Aqua Tech Environmental Laboratories, Inc.

**REVISED**

## CERTIFICATE OF ANALYSIS -

Client #: I0467  
STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720  
Attn:

Report Date: 05-Aug-02  
Original Report Date: 25-Jun-02

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Our Lab#: MEL02-06982

Your Sample ID: A2F060113-1

Date Logged In: 6/11/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/10/2002

PO#: SR039170

### - COLLECTION INFORMATION -

Date/Time/By: 6/5/2002

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	6/10/2002	6/16/2002		
	CAS Number	Parameter			
Sample exhibits a non-classical pattern for aroclor-1242 possibly due to weathering. Results should be considered semi-quantitative.					
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		0.26 ug/l J	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

### --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06982	508	Decachlorobiphenyl (Surr)	43 %R *	70	130
		Low surrogate recovery.			
MEL02-06982	508	Tetrachloro-m-xylene (Surr)	77 %R	70	130

Total number of pages 1

End of Report

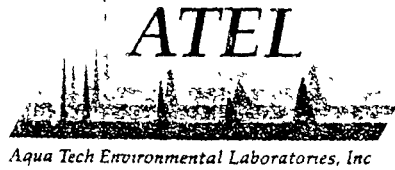
Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2F060113-1

Lab Number MEL02-06982



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 24-Jun-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-06983

Your Sample ID: A2F060113-2

Date Logged In: 6/11/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/10/2002

PO#: SR039170

**- COLLECTION INFORMATION -**

Date/Time/By: 6/5/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	6/10/02	6/16/02		
	<b>CAS Number</b>	<b>Parameter</b>	<b>Result</b>	<b>Typical Report Limit</b>	
	12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1	

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06983	508	Decachlorobiphenyl (Surr) Low surrogate recovery.	66 %R *	70	130
MEL02-06983	508	Tetrachloro-m-xylene (Surr)	89 %R	70	130

*End of Report*

Report Approved By: Wade T. DeLong  
Wade T DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2F060113-2

Lab Number MEL02-06983

## - CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 05-Aug-02

STL North Canton

Original Report Date: 25-Jun-02

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

Attn:

FAX: (330) 497-0772

Our Lab#: MEL02-06984

Your Sample ID: A2F060113-3

Date Logged In: 6/11/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/10/2002

PO#: SR039170

### - COLLECTION INFORMATION -

Date/Time/By: 6/5/2002

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	6/10/2002	6/16/2002		
	<b>CAS Number</b>	<b>Parameter</b>			
Sample exhibits a non-classical pattern for aroclor-1242 possibly due to weathering. Results should be considered semi-quantitative.					
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	33469-21-9	Aroclor 1242		0.20 ug/l J	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

### --- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06984	508	Decachlorobiphenyl (Surr)	61 %R *	70	130
		Low surrogate recovery.			
MEL02-06984	508	Tetrachloro-m-xylene (Surr)	76 %R	70	130

Total number of pages 1

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2F060113-3

Lab Number MEL02-06984



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 24-Jun-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab #: MEL02-06985

Your Sample ID: A2F060113-4

Date Logged in: 6/11/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/10/2002

PO#: SR039170

**- COLLECTION INFORMATION -**

Date/Time/By: 6/5/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	6/10/02	6/16/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06985	508	Decachlorobiphenyl (Surr)	53 %R *	70	130
		Low surrogate recovery.			
MEL02-06985	508	Tetrachloro-m-xylene (Surr)	96 %R	70	130

*End of Report*

Report Approved By: Wade T. DeLong  
Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701*

Your Sample ID: A2F060113-4

Lab Number MEL02-06985

**SEVERN  
TRENT  
SERVICES**

STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

**ANALYTICAL REPORT**

REC'D CRA  
JUL 16 2002  
CRA SDG #39

PROJECT NO. 13968  
GMPT-BEDFORD  
Lot #: A2F070106

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

**ORIGINAL ANALYTICAL REPORT**

Project#: 13968 Lab#: A2F070106  
Name: GMPT BEDFORD

Description

SEVERN TRENT LABORATORIES, INC. Event: GW (PW) INVESTIGATION  
Samples: 2 WATERS ( JW-001, EB )  
Analysis: PCBs, (Total, Dissolved)

TAT: STDRD TAT (14 DAYS)

Lab: STL-NC.

*Amy McCormick*  
Amy L. McCormick  
Project Manager

Checked Against Preliminary Data:

Date: 7/26/02 Init.: MSC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

July 15, 2002

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL

COOLER B179

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

13968

PROJECT NAME:

GTMPT - Bedford

SAMPLER'S SIGNATURE:

*John Weinberger*

PRINTED NAME:

John Weinberger

No. OF CONTAINERS

PARAMETERS

TOT. PCBs  
DSS PCBs

REMARKS

SEQ. No.

DATE

TIME

SAMPLE No.

SAMPLE MATRIX

1  
2

6/6/02  
6/6/02

1130  
1055

GW-060602-472-JW-001  
EB-060602-472-JW-001

H2O  
"

4  
2

X  
X

TOTAL NUMBER OF CONTAINERS

6 06/06/02

RELINQUISHED BY:

① *John Weinberger*

DATE:

6/6/02

TIME:

1800

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

Courier

AIR BILL No.

White  
Yellow  
Pink  
Golden

-Fully Executed Copy  
-Receiving Laboratory Copy  
-Shipper Copy  
-Sampler Copy

SAMPLE TEAM:

J. Weinberger  
G. Seng  
L. Neeli

RECEIVED FOR LABORATORY BY:

*Anne Sanders*  
DATE: 6/7/02 TIME: 7:00

08215

# CASE NARRATIVE

A2F070106

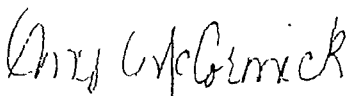
The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received June 7, 2002, according to documented sample acceptance procedures.

Polychlorinated Biphenyls were analyzed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

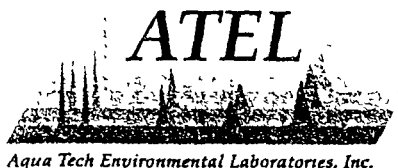
Preliminary results were provided to the Chemistry Department on June 26, 2002

## Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-060602-472-JW-001	A2F070106-001	MEL02-06979
GW-060602-472-JW-001 DISS	A2F070106-002	MEL02-06980
EB-060602-472-JW-001	A2F070106-003	MEL02-06981



Amy McCormick  
Project Manager



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 24-Jun-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-06979

Your Sample ID: A2F070106-1

Date Logged In: 6/11/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/10/2002

PO#: SR039211

**- COLLECTION INFORMATION -**

Date/Time/By: 6/6/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	6/10/02	6/16/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06979	508	Decachlorobiphenyl (Surr)	27 %R *	70	130
		Low surrogate recovery.			
MEL02-06979	508	Tetrachloro-m-xylene (Surr)	24 %R *	70	130
		Low surrogate recovery.			

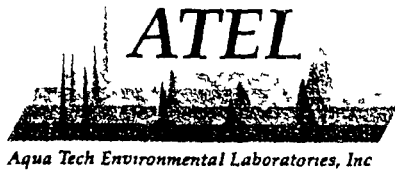
*End of Report*

Report Approved By: Wade T. DeLong  
Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2F070106-1

Lab Number MEL02-06979



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 24-Jun-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-06980

Your Sample ID: A2F070106-2

Date Logged In: 6/11/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/10/2002

PO#: SR039211

**- COLLECTION INFORMATION -**

Date/Time/By: 6/6/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	6/10/02	6/16/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		<0.08 ug/l UJ	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l UJ	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l UJ	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l UJ	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l UJ	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l UJ	0.1

**--- Surrogate Recoveries ---**

Client	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06980	508	Decachlorobiphenyl (Surr) Low surrogate recovery	34 %R *	70	130
MEL02-06980	508	Tetrachloro-m-xylene (Surr) Low surrogate recovery	32 %R *	70	130

*End of Report*

Report Approved By: Wade T. DeLong  
Wade T DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications AZ0117, OH4054, NC39701*

Your Sample ID: A2F070106-2

Lab Number MEL02-06980



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

# ANALYTICAL REPORT

REC'D CPA  
JUL 16 2002  
CRA SDG # 40

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2F070104

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

## ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2F070104

Name: GMPT BEDFORD

### Description

SEVERN TRENT LABORATORIES, INC. Event: GW (DW) ANALYSIS.

Samples: GW (JW-003)

Analysis: PCBs. (Total, Dissolved)

TAT: STDRD TAT (14 DAYS)

Lab: STL-NC.

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

### Checked Against Preliminary Data:

Date: 7/26/02 Init.: MSC

Date of Validation Memo: \_\_\_\_\_

Invoice Approval: \_\_\_\_\_

Comments: \_\_\_\_\_

July 15, 2002

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

ATEL

COOLER: 125

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

13468

PROJECT NAME:

GMAT- Bedford

SAMPLER'S SIGNATURE:

*J. Weinberger*

PRINTED NAME:

J. Weinberger

No. OF CONTAINERS

PARAMETERS

*TOT PCBs  
DSS PCBs*

REMARKS

SEQ. No.

DATE

TIME

SAMPLE No.

SAMPLE MATRIX

1

6/6/02

1600

GW-060602-452-JW-003

H2O

4

XX

TOTAL NUMBER OF CONTAINERS

4

RELINQUISHED BY:

① *J. Weinberger*

DATE:

6/6/02

TIME:

1800

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

*Courier*

AIR BILL No.

White  
Yellow  
Pink  
Golden

-Fully Executed Copy  
-Receiving Laboratory Copy  
-Shipper Copy  
-Sampler Copy

SAMPLE TEAM:

*J. Weinberger  
G. Seng L.R. 2011*

RECEIVED FOR LABORATORY BY:

*Thine Sanders*  
DATE: 6/7/02 TIME: 7:00

08218

# CASE NARRATIVE

A2F070104

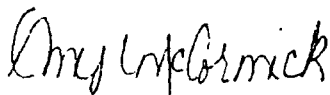
The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The sample was received June 7, 2002, according to documented sample acceptance procedures.

Polychlorinated Biphenyls were analyzed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

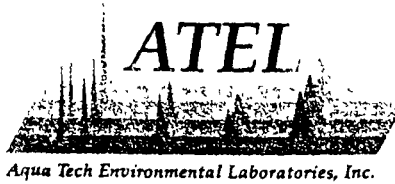
Preliminary results were provided to the Chemistry Department on June 26, 2002

## Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-060602-452-JW-003	A2F070104-001	MEL02-06977
GW-060602-452-JW-003 DISS	A2F070104-002	MEL02-06978



Amy McCormick  
Project Manager



- CERTIFICATE OF ANALYSIS -

Client #: I0467

Report Date: 24-Jun-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-06977

Your Sample ID: A2F070104-1

Date Logged In: 6/11/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/10/2002

PO#: SR039210

- COLLECTION INFORMATION -

Date/Time/By: 6/6/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	6/10/02	6/16/02		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1	

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06977	508	Decachlorobiphenyl (Surr)	62 %R *	70	130
		Low surrogate recovery.			
MEL02-06977	508	Tetrachloro-m-xylene (Surr)	71 %R	70	130

End of Report

Report Approved By: Wade T. DeLong  
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Your Sample ID: A2F070104-1

Lab Number MEL02-06977



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467  
STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Report Date: 24-Jun-02

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-06978

Your Sample ID: A2F070104-2

Date Logged In: 6/11/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/10/2002

PO#: SR039210

**- COLLECTION INFORMATION -**

Date/Time/By: 6/6/02

EPA Method	Analyst	Prep Date	Analysis Date	Result	Typical Report Limit
508	MRW	6/10/02	6/16/02		
	CAS Number	Parameter			
	12674-11-2	Aroclor 1016		< 0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		< 0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		< 0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		< 0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		< 0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		< 0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		< 0.10 ug/l	0.1

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06978	508	Decachlorobiphenyl (Surr)	78 %R	70	130
MEL02-06978	508	Tetrachloro-m-xylene (Surr)	85 %R	70	130

*End of Report*

Report Approved By:

Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2F070104-2

Lab Number MEL02-06978

# SAMPLE SUMMARY

A2F050101

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E2F1A	001	EB-060402-704013-GS-001	06/04/02	10:00
E2F1R	002	GW-060402-704013-GS-001	06/04/02	10:10
E2F1L	003	GW-060402-704013-GS-002	06/04/02	10:20
E2F1P	004	GW-060402-704013-GS-003	06/04/02	16:00
E2F1Q	005	GW-060402-704013-GS-004	06/04/02	16:10
E2F1R	006	TS-060402-704013-GS-001	06/04/02	16:00

## 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, paper filter test, pH, poreosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

**CRA**

CONESTOGA-ROVERS & ASSOCIATES  
8615 W. Bryn Mawr Avenue  
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

PAGE 1 of 1

STL-NORTH CANTON; NORTH CANTON, OHIO

REFERENCE NUMBER:

PROJECT NAME:

13968

GMPT - BEDFORD

**CHAIN OF CUSTODY RECORD**

SAMPLER'S SIGNATURE:

*George Seng*

PRINTED NAME:

GEORGE SENG

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS										REMARKS		
						PCBS	SVOCs	VOCs	TAL METALS	TNA CYANIDE								
	06/01/02	10:00	EB-060402-704013-GS-001	WATER	2	X												Code 422
		10:10	GW-060402-704013-GS-001	OIL/WATER	2	X												LNAPL " 422
		10:20	GW-060402-704013-GS-002	OIL/WATER	4	X	X											DNAPL " 422
		16:00	GW-060402-704013-GS-003	OIL/WATER	8		X	X	X	X								LNAPL " STL-C1001
		16:10	GW-060402-704013-GS-004	OIL/WATER	6			X	X	X								DNAPL " STL-C1001
	06/01/02	16:00	TB-060402-704013-GS-001	WATER	2			X										STL-C1001

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: ① <i>J. L. ...</i>	DATE: 06/04/02 TIME: 18:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT:

COURIER

AIR BILL No.

White - Fully Executed Copy  
 Yellow - Receiving Laboratory Copy  
 Pink - Shipper Copy  
 Goldenrod - Sampler Copy

SAMPLE TEAM:

SENG, MICHAEL

WEINBERGER

RECEIVED FOR LABORATORY BY:

*[Signature]*

DATE: 6-5-02 TIME: 0720

07967

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-001

GC Semivolatiles

Lot-Sample #...: A2F0S0101-002 Work Order #...: E2F1H1AA Matrix.....: WG  
 Date Sampled...: 06/04/02 10:10 Date Received...: 06/05/02  
 Prep Date.....: 06/05/02 Analysis Date...: 06/10/02  
 Prep Batch #...: 2156173  
 Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol...: 5.5 mL  
 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND UJ	0.55	ug/L	0.054
Aroclor 1221	ND UJ	0.55	ug/L	0.11
Aroclor 1232	ND UJ	0.55	ug/L	0.056
Aroclor 1242	3.8 J	0.55	ug/L	0.075
Aroclor 1248	ND UJ	0.55	ug/L	0.061
Aroclor 1254	ND UJ	0.55	ug/L	0.082
Aroclor 1260	ND UJ	0.55	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	24 *	(45 - 120)
Decachlorobiphenyl	29	(24 - 128)

NOTE(S):

\* Surrogate recovery is outside stated control limits.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-002

GC Semivolatiles

Lot-Sample #...: A2F050101-003 Work Order #...: E2F1L2AC Matrix.....: WG  
 Date Sampled...: 06/04/02 10:20 Date Received...: 06/05/02  
 Prep Date.....: 06/11/02 Analysis Date...: 06/13/02  
 Prep Batch #...: 2162363  
 Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND UJ	0.20	ug/L	0.054
Aroclor 1221	ND UJ	0.20	ug/L	0.11
Aroclor 1232	ND UJ	0.40	ug/L	0.056
Aroclor 1242	0.87 J	0.20	ug/L	0.075
Aroclor 1248	ND UJ	0.20	ug/L	0.061
Aroclor 1254	ND UJ	0.20	ug/L	0.082
Aroclor 1260	ND UJ	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	56	(45 - 120)
Decachlorobiphenyl	21 *	(24 - 128)

NOTE(S):

\* Surrogate recovery is outside stated control limits.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-002

GC/MS Semivolatiles

Lot-Sample #...: A2F050101-003 Work Order #...: E2F1L1AA Matrix.....: WG  
 Date Sampled...: 06/04/02 10:20 Date Received...: 06/05/02  
 Prep Date.....: 06/05/02 Analysis Date...: 06/11/02  
 Prep Batch #...: 2156121  
 Dilution Factor: 25 Initial Wgt/Vol: 1000 mL Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	250	ug/L	20
Acenaphthylene	ND	250	ug/L	18
Acetophenone	ND	250	ug/L	65
Anthracene	ND	250	ug/L	17
Atrazine	ND	250	ug/L	62
Benzo (a) anthracene	ND	250	ug/L	18
Benzo (a) pyrene	ND	250	ug/L	18
Benzo (b) fluoranthene	ND	250	ug/L	24
Benzo (ghi) perylene	ND	250	ug/L	21
Benzo (k) fluoranthene	ND	250	ug/L	21
Benzaldehyde	ND	250	ug/L	70
,,1'-Biphenyl	ND	250	ug/L	65
bis(2-Chloroethoxy) methane	ND	250	ug/L	22
bis(2-Chloroethyl)- ether	ND	250	ug/L	24
bis(2-Ethylhexyl) phthalate	ND	250	ug/L	68
4-Bromophenyl phenyl ether	ND	250	ug/L	22
Butyl benzyl phthalate	ND	250	ug/L	22
Caprolactam	ND	250	ug/L	62
Carbazole	ND	250	ug/L	20
4-Chloroaniline	ND	250	ug/L	15
4-Chloro-3-methylphenol	ND	250	ug/L	25
2-Chloronaphthalene	ND	250	ug/L	21
2-Chlorophenol	ND	250	ug/L	25
4-Chlorophenyl phenyl ether	ND	250	ug/L	20
Chrysene	ND	250	ug/L	19
Dibenz (a, h) anthracene	ND	250	ug/L	20
Dibenzofuran	ND	250	ug/L	28
3,3'-Dichlorobenzidine	ND UJ	1200	ug/L	23
2,4-Dichlorophenol	ND	250	ug/L	21
Diethyl phthalate	ND	250	ug/L	16
2,4-Dimethylphenol	ND	250	ug/L	21
Dimethyl phthalate	ND	250	ug/L	19
Di-n-butyl phthalate	ND	250	ug/L	17

(Continued on next page)

CONESTOGA ROVERS & ASSOC., INC.

Client: Sample ID: GW-060402-704013-GS-002

GC/MS Semivolatiles

Lot-Sample #...: A2F050101-003 Work Order #...: E2F1LLAA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,6-Dinitro- 2-methylphenol	ND	1200	ug/L	32
2,4-Dinitrophenol	ND	1200	ug/L	75
2,4-Dinitrotoluene	ND	250	ug/L	20
2,6-Dinitrotoluene	ND	250	ug/L	14
Di-n-octyl phthalate	ND	250	ug/L	28
Fluoranthene	ND	250	ug/L	20
Fluorene	ND	250	ug/L	25
Hexachlorobenzene	ND	250	ug/L	18
Hexachlorobutadiene	ND	250	ug/L	18
Hexachlorocyclopenta- diene	ND	1200	ug/L	28
Hexachloroethane	ND	250	ug/L	18
Indeno (1, 2, 3-cd)pyrene	ND	250	ug/L	16
Isophorone	ND	250	ug/L	16
-Methylnaphthalene	ND	250	ug/L	16
Methylphenol	ND	250	ug/L	28
4-Methylphenol	ND	250	ug/L	32
Naphthalene	ND	250	ug/L	19
2-Nitroaniline	ND	1200	ug/L	18
3-Nitroaniline	ND	1200	ug/L	18
4-Nitroaniline	ND	1200	ug/L	32
Nitrobenzene	ND	250	ug/L	20
2-Nitrophenol	ND	250	ug/L	52
4-Nitrophenol	ND	1200	ug/L	48
N-Nitrosodi-n-propyl- amine	ND	250	ug/L	17
N-Nitrosodiphenylamine	ND	250	ug/L	35
2,2'-oxybis(1-Chloropropane)	ND	250	ug/L	20
Pentachlorophenol	ND	250	ug/L	60
Phenanthrene	23 AJ	250	ug/L	20
Phenol	ND	250	ug/L	65
Pyrene	ND AJ	250	ug/L	28
2,4,5-Trichloro- phenol	ND	250	ug/L	30
2,4,6-Trichloro- phenol	ND	250	ug/L	42

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	44 DIL	(32 - 112)
2-Fluorobiphenyl	47 DIL	(30 - 110)
erphenyl-d14	61 DIL	(10 - 144)
Phenol-d5	44 DIL	(10 - 113)
2-Fluorophenol	57 DIL	(13 - 110)
2,4,6-Tribromophenol	0.0 DIL, *	(21 - 122)

(Continued on next page)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-002

GC/MS Semivolatiles

Lot-Sample #...: A2F050101-003 Work Order #...: E2F1L1AA Matrix.....: WG

NOTES (S):

---

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

o Surrogate recovery is outside stated control limits.

] Estimated result. Result is less than RL.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-003

GC/MS Volatiles

Lot-Sample #....: A2F050101-004 Work Order #....: E2F1P1AA Matrix.....: WG  
 Date Sampled....: 06/04/02 16:00 Date Received...: 06/05/02  
 Prep Date.....: 06/06/02 Analysis Date...: 06/06/02  
 Prep Batch #....: 2158201  
 Dilution Factor: 16.67 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

COMPONENT	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	1100	170	ug/L	8.5
Benzene	ND	17	ug/L	2.7
Bromodichloromethane	ND	17	ug/L	2.8
Bromoform	ND	17	ug/L	3.0
Bromomethane	ND	17	ug/L	3.3
2-Butanone	1.100	170	ug/L	6.8
Carbon disulfide	ND	17	ug/L	3.3
Carbon tetrachloride	ND UJ	17	ug/L	2.0
Chlorobenzene	ND	17	ug/L	2.3
Chloroethane	ND	17	ug/L	4.3
Chloroform	ND	17	ug/L	2.3
Chloromethane	ND	17	ug/L	2.2
Cyclohexane	ND	17	ug/L	2.2
Dibromochloromethane	ND	17	ug/L	4.3
1,2-Dibromo-3-chloro-propane	ND	33	ug/L	10
1,2-Dibromoethane	ND	17	ug/L	3.7
1,2-Dichlorobenzene	ND	17	ug/L	1.8
1,3-Dichlorobenzene	ND	17	ug/L	2.5
1,4-Dichlorobenzene	ND	17	ug/L	2.8
Dichlorodifluoromethane	ND	17	ug/L	4.3
1,1-Dichloroethane	ND	17	ug/L	2.7
1,2-Dichloroethane	ND	17	ug/L	3.5
1,1-Dichloroethene	ND	17	ug/L	4.0
cis-1,2-Dichloroethene	ND	8.3	ug/L	3.7
trans-1,2-Dichloroethene	ND	8.3	ug/L	2.5
1,2-Dichloropropane	ND	17	ug/L	2.8
cis-1,3-Dichloropropene	ND	17	ug/L	2.0
trans-1,3-Dichloropropene	ND	17	ug/L	4.5
Ethylbenzene	2.6 UJ	17	ug/L	2.0
2-Hexanone	ND UJ	170	ug/L	7.7
Isopropylbenzene	ND	17	ug/L	2.0
Methyl acetate	ND	170	ug/L	6.8
Methylene chloride	ND	17	ug/L	5.7
Methylcyclohexane	ND	17	ug/L	2.5
4-Methyl-2-pentanone	ND	170	ug/L	3.8
Methyl tert-butyl ether	ND	83	ug/L	2.2
Styrene	ND	17	ug/L	2.5

(Continued on next page)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-003

GC/MS Volatiles

Lot-Sample #....: A2F050101-004 Work Order #....: E2F1P1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	17	ug/L	4.2
Tetrachloroethene	ND	17	ug/L	3.8
Toluene	ND	17	ug/L	3.0
1,2,4-Trichloro- benzene	ND	17	ug/L	2.8
1,1,1-Trichloroethane	ND	17	ug/L	2.5
1,1,2-Trichloroethane	ND	17	ug/L	5.0
Trichloroethene	ND	17	ug/L	2.3
Trichlorofluoromethane	ND	17	ug/L	4.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	17	ug/L	5.3
Vinyl chloride	ND	17	ug/L	2.5
Xylenes (total)	17	17	ug/L	5.5

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	106	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	97	(76 - 110)
4-Bromofluorobenzene	88	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-003

GC/MS Semivolatiles

Lot-Sample #...: A2F050101-004 Work Order #...: E2F1P1AC Matrix.....: WG  
 Date Sampled...: 06/04/02 16:00 Date Received...: 06/05/02  
 Prep Date.....: 06/05/02 Analysis Date...: 06/11/02  
 Prep Batch #...: 2156121  
 Dilution Factor: 50 Initial Wgt/Vol: 1000 mL Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8270C

NAME	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	500	ug/L	40
Acenaphthylene	ND	500	ug/L	36
Acetophenone	ND	500	ug/L	130
Anthracene	ND	500	ug/L	34
Atrazine	ND	500	ug/L	120
Benzo(a)anthracene	ND	500	ug/L	35
Benzo(a)pyrene	ND	500	ug/L	36
Benzo(b)fluoranthene	ND	500	ug/L	47
Benzo(ghi)perylene	ND	500	ug/L	42
Benzo(k)fluoranthene	ND	500	ug/L	42
Benzaldehyde	ND	500	ug/L	140
1'-Biphenyl	ND	500	ug/L	130
Bis(2-Chloroethoxy) methane	ND	500	ug/L	44
Bis(2-Chloroethyl)- ether	ND	500	ug/L	48
Bis(2-Ethylhexyl) phthalate	ND	500	ug/L	140
1-Bromophenyl phenyl ether	ND	500	ug/L	44
Bucyl benzyl phthalate	ND	500	ug/L	44
Caprolactam	ND	500	ug/L	120
Carbazole	ND	500	ug/L	41
2-Chloroaniline	ND	500	ug/L	30
2-Chloro-3-methylphenol	ND	500	ug/L	50
2-Chloronaphthalene	ND	500	ug/L	42
2-Chlorophenol	ND	500	ug/L	50
4-Chlorophenyl phenyl ether	ND	500	ug/L	40
Chrysene	ND	500	ug/L	38
Dibenz(a,h)anthracene	ND	500	ug/L	40
Dibenzofuran	ND	500	ug/L	55
3,3'-Dichlorobenzidine	ND UJ	2500	ug/L	46
2,4-Dichlorophenol	ND	500	ug/L	42
Diethyl phthalate	ND	500	ug/L	32
2,4-Dimethylphenol	ND	500	ug/L	42
Dimethyl phthalate	ND	500	ug/L	38
n-butyl phthalate	ND	500	ug/L	34

(Continued on next page)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-003

GC/MS Semivolatiles

Lot-Sample #....: A2F050101-004 Work Order #....: E2F1P1AC Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4,6-Dinitro-2-methylphenol	ND	2500	ug/L	65
2,4-Dinitrophenol	ND	2500	ug/L	150
2,4-Dinitrotoluene	ND	500	ug/L	40
2,6-Dinitrotoluene	ND	500	ug/L	28
Di-n-octyl phthalate	ND	500	ug/L	95
Fluoranthene	ND	500	ug/L	40
Fluorene	ND	500	ug/L	50
Hexachlorobenzene	ND	500	ug/L	37
Hexachlorobutadiene	ND	500	ug/L	36
Hexachlorocyclopentadiene	ND	2500	ug/L	55
Hexachloroethane	ND	500	ug/L	37
Indeno (1,2,3-cd) pyrene	ND	500	ug/L	32
Isophorone	ND	500	ug/L	32
1-Methylnaphthalene	ND	500	ug/L	32
2-Methylphenol	ND	500	ug/L	55
4-Methylphenol	ND	500	ug/L	65
Naphthalene	ND	500	ug/L	38
2-Nitroaniline	ND	2500	ug/L	35
3-Nitroaniline	ND	2500	ug/L	36
4-Nitroaniline	ND	2500	ug/L	65
Nitrobenzene	ND	500	ug/L	40
2-Nitrophenol	ND	500	ug/L	100
4-Nitrophenol	ND	2500	ug/L	95
N-Nitrosodi-n-propylamine	ND	500	ug/L	34
N-Nitrosodiphenylamine	ND	500	ug/L	70
2,2'-oxybis(1-Chloropropane)	ND	500	ug/L	39
Pentachlorophenol	ND	500	ug/L	120
Phenanthrene	83 <i>AJ</i>	500	ug/L	41
Phenol	ND	500	ug/L	130
Pyrene	ND <i>AJ</i>	500	ug/L	55
2,4,5-Trichlorophenol	ND	500	ug/L	60
2,4,6-Trichlorophenol	ND	500	ug/L	85

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Nitrobenzene-d5	0.0 DIL, *	(32 - 112)
2-Fluorobiphenyl	0.0 DIL, *	(30 - 110)
Terphenyl-d14	76 DIL	(10 - 144)
Phenol-d5	0.0 DIL, *	(10 - 113)
2-Fluorophenol	0.0 DIL, *	(13 - 110)
2,4,6-Tribromophenol	0.0 DIL, *	(21 - 122)

(Continued on next page)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-003

GC/MS Semivolatiles

Lot-Sample #...: A2F050101-004 Work Order #...: E2F1P1AC Matrix.....: WG

NOTE(S):

1] DL concentration is estimated or not reported due to dilution or the presence of interfering analytes.

2] Surrogate recovery is outside stated control limits.

3] Estimated result. Result is less than RL.

Client Sample ID: GM-060402-704013-GS-003

TOTAL METALS

Lot-Sample #: A2F050101-004

Date Sampled: 06/04/02 16:00 Date Received: 06/05/02

Matrix: WG

PARAMETER	RESULT	REPORTING	LIMIT	UNITS	METHOD	PREPARATION- WORK	ANALYSIS DATE	ORDER #
-----------	--------	-----------	-------	-------	--------	----------------------	---------------	---------

Prep Batch #: 2157111

Barium	ND	0.010		mg/L	SW846 6020	06/06-06/10/02 E2FLP1A1	Analyst ID: 001644	
							MDL: 0.00033	
							Analyst Time: 17:38	
							Instrument ID: 17	
Strontium	2.7 J	0.20		mg/L	SW846 6010B	06/06-06/09/02 E2FLP1AF	Analyst ID: 001011	
							MDL: 0.028	
							Analyst Time: 10:32	
							Instrument ID: 16	
Mercuric	ND	0.010		mg/L	SW846 6010B	06/06-06/09/02 E2FLP1AW	Analyst ID: 001011	
							MDL: 0.0039	
							Analyst Time: 10:32	
							Instrument ID: 16	
Lead	0.033	0.0030		mg/L	SW846 6010B	06/06-06/09/02 E2FLP1AX	Analyst ID: 001011	
							MDL: 0.0025	
							Analyst Time: 10:32	
							Instrument ID: 16	
Antimony	ND	0.060		mg/L	SW846 6010B	06/06-06/09/02 E2FLP1AG	Analyst ID: 001011	
							MDL: 0.0022	
							Analyst Time: 10:32	
							Instrument ID: 16	
Iron	0.078 J	0.20		mg/L	SW846 6010B	06/06-06/09/02 E2FLP1AH	Analyst ID: 001011	
							MDL: 0.0030	
							Analyst Time: 10:32	
							Instrument ID: 16	
Cadmium	ND	0.0050		mg/L	SW846 6010B	06/06-06/09/02 E2FLP1AJ	Analyst ID: 001011	
							MDL: 0.0045	
							Analyst Time: 10:32	
							Instrument ID: 16	
Cadmium	0.0044 J	0.0050		mg/L	SW846 6010B	06/06-06/09/02 E2FLP1AK	Analyst ID: 001011	
							MDL: 0.0028	
							Analyst Time: 10:32	
							Instrument ID: 16	
Chromium	0.0053 J	0.010		mg/L	SW846 6010B	06/06-06/09/02 E2FLP1AL	Analyst ID: 001011	
							MDL: 0.0014	
							Analyst Time: 10:32	
							Instrument ID: 16	

(Continued on next page)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-003

TOTAL Metals

Lot-Sample #...: A2F050101-004

Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Cobalt	0.0033 <i>BJ</i>	0.050	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1A11
		Dilution Factor: 1		Analysis Time...: 10:32		Analyst ID.....: 001011
		Instrument ID...: I6		MDL.....: 0.0013		
Copper	0.002	0.025	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1A11
		Dilution Factor: 1		Analysis Time...: 10:32		Analyst ID.....: 001011
		Instrument ID...: I6		MDL.....: 0.0042		
Iron	9.5	0.10	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1A11
		Dilution Factor: 1		Analysis Time...: 10:32		Analyst ID.....: 001011
		Instrument ID...: I6		MDL.....: 0.088		
Manganese	0.36	0.015	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1A11
		Dilution Factor: 1		Analysis Time...: 10:32		Analyst ID.....: 001011
		Instrument ID...: I6		MDL.....: 0.00090		
Nickel	0.0050 <i>BJ</i>	0.040	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1A11
		Dilution Factor: 1		Analysis Time...: 10:32		Analyst ID.....: 001011
		Instrument ID...: I6		MDL.....: 0.0022		
Silver	ND	0.010	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1A11
		Dilution Factor: 1		Analysis Time...: 10:32		Analyst ID.....: 001011
		Instrument ID...: I6		MDL.....: 0.0015		
Vanadium	0.0048 <i>BJ</i>	0.050	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1A11
		Dilution Factor: 1		Analysis Time...: 10:32		Analyst ID.....: 001011
		Instrument ID...: I6		MDL.....: 0.00082		
Zinc	0.40	0.020	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1A11
		Dilution Factor: 1		Analysis Time...: 10:32		Analyst ID.....: 001011
		Instrument ID...: I6		MDL.....: 0.012		
Mercury	0.00019 <i>BJ</i>	0.00020	mg/L	SW846 7470A	06/06-06/07/02	E2F1P1A12
		Dilution Factor: 1		Analysis Time...: 10:53		Analyst ID.....: 001086
		Instrument ID...: E1		MDL.....: 0.000069		

NOTE(S):

B Estimated result. Result is less than RL.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-003

General Chemistry

Lot-Sample #...: A2F050101-004    Work Order #...: E2F1P    Matrix.....: WG  
Date Sampled...: 06/04/02 16:00    Date Received...: 06/05/02

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide Amenable to Chlorination	ND	0.010	mg/L	SW846 9012	06/07/02	2158286
		Dilution Factor: 1		MDL.....: 0.010		
Cyanide, Total	0.0061 EJ	0.010	mg/L	SW846 9012A	06/07/02	2158271
		Dilution Factor: 1		MDL.....: 0.0018		

NOTE(S):

RL Reporting Limit

E Estimated result. Result is less than RL.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704813-GS-004

GC/MS Volatiles

Lot-Sample #....: A2F050101-005 Work Order #....: E2F1Q1AA Matrix.....: WG  
 Date Sampled....: 06/04/02 16:10 Date Received...: 06/05/02  
 Prep. Date.....: 06/06/02 Analysis Date...: 06/06/02  
 Prep. Batch #....: 2158205  
 Dilution Factor: 16.67 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	81.0	170	ug/L	8.5
Benzene	ND	17	ug/L	2.7
Bromodichloromethane	ND	17	ug/L	2.8
Bromoform	ND	17	ug/L	3.0
Bromomethane	ND	17	ug/L	3.3
2-Butanone	830	170	ug/L	6.8
Carbon disulfide	ND	17	ug/L	3.3
Carbon tetrachloride	ND UJ	17	ug/L	2.0
Chlorobenzene	ND	17	ug/L	2.3
Chloroethane	ND	17	ug/L	4.3
Chloroform	ND	17	ug/L	2.3
Chloromethane	ND	17	ug/L	2.2
Cyclohexane	ND	17	ug/L	2.2
Dibromochloromethane	ND	17	ug/L	4.3
1,2-Dibromo-3-chloro-propane	ND	33	ug/L	10
1,2-Dibromoethane	ND	17	ug/L	3.7
1,2-Dichlorobenzene	ND	17	ug/L	1.8
1,3-Dichlorobenzene	ND	17	ug/L	2.5
1,4-Dichlorobenzene	ND	17	ug/L	2.8
Dichlorodifluoromethane	ND	17	ug/L	4.3
1,1-Dichloroethane	ND	17	ug/L	2.7
1,2-Dichloroethane	ND	17	ug/L	3.5
1,1-Dichloroethene	ND	17	ug/L	4.0
cis-1,2-Dichloroethene	ND	8.3	ug/L	3.7
trans-1,2-Dichloroethene	ND	8.3	ug/L	2.5
1,2-Dichloropropane	ND	17	ug/L	2.8
cis-1,3-Dichloropropene	ND	17	ug/L	2.0
trans-1,3-Dichloropropene	ND	17	ug/L	4.5
Ethylbenzene	ND	17	ug/L	2.0
2-Hexanone	ND UJ	170	ug/L	7.7
Isopropylbenzene	ND	17	ug/L	2.0
Methyl acetate	ND	170	ug/L	6.8
Methylene chloride	ND	17	ug/L	5.7
Methylcyclohexane	ND	17	ug/L	2.5
4-Methyl-2-pentanone	ND	170	ug/L	3.8
Methyl tert-butyl ether	ND	83	ug/L	2.2
Styrene	ND	17	ug/L	2.5

(Continued on next page)

COERSTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-004

GC/MS Volatiles

Lot-Sample #....: A2F050101-005 Work Order #....: E2F1Q1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	17	ug/L	4.2
Tetrachloroethene	ND	17	ug/L	3.8
Toluene	ND	17	ug/L	3.0
1,2,4-Trichloro- benzene	ND	17	ug/L	2.8
1,1,1-Trichloroethane	ND	17	ug/L	2.5
1,1,2-Trichloroethane	ND	17	ug/L	5.0
Trichloroethene	ND	17	ug/L	2.3
Trichlorofluoromethane	ND	17	ug/L	4.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	17	ug/L	5.3
Vinyl chloride	ND	17	ug/L	2.5
Xylenes (total)	ND	17	ug/L	5.5

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	100	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-004

TOTAL Metals

Lot-Sample #...: A2F050101-005

Matrix.....: WG

Date Sampled...: 06/04/02 16:10 Date Received...: 06/05/02

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Prep Batch #...: 2157111							
Thallium	0.0052	0.0010	mg/L	SW846 6020	06/06-06/10/02	E2F1Q1A0	
		Dilution Factor: 1		Analysis Time...: 17:51	Analyst ID.....: 001644		
		Instrument ID...: I7		MDL.....: 0.000033			
Aluminum	93.0 J	0.20	mg/L	SW846 6010B	06/06-06/09/02	E2F1Q1A0	
		Dilution Factor: 1		Analysis Time...: 10:47	Analyst ID.....: 001011		
		Instrument ID...: I6		MDL.....: 0.028			
Arsenic	0.14	0.050	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1A0	
		Dilution Factor: 5		Analysis Time...: 18:12	Analyst ID.....: 001637		
		Instrument ID...: I6		MDL.....: 0.020			
Lead	4.5	0.015	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1A0	
		Dilution Factor: 5		Analysis Time...: 18:12	Analyst ID.....: 001637		
		Instrument ID...: I6		MDL.....: 0.012			
Antimony	0.035 B, G J	0.30	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1A0	
		Dilution Factor: 5		Analysis Time...: 18:12	Analyst ID.....: 001637		
		Instrument ID...: I6		MDL.....: 0.011			
Barium	1.1	0.20	mg/L	SW846 6010B	06/06-06/09/02	E2F1Q1A0	
		Dilution Factor: 1		Analysis Time...: 10:47	Analyst ID.....: 001011		
		Instrument ID...: I6		MDL.....: 0.0030			
Selenium	ND G	0.025	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1A0	
		Dilution Factor: 5		Analysis Time...: 18:12	Analyst ID.....: 001637		
		Instrument ID...: I6		MDL.....: 0.022			
Beryllium	0.0022 B J	0.0050	mg/L	SW846 6010B	06/06-06/09/02	E2F1Q1A0	
		Dilution Factor: 1		Analysis Time...: 10:47	Analyst ID.....: 001011		
		Instrument ID...: I6		MDL.....: 0.00054			
Cadmium	0.15	0.025	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1A0	
		Dilution Factor: 5		Analysis Time...: 18:12	Analyst ID.....: 001637		
		Instrument ID...: I6		MDL.....: 0.0014			
Chromium	0.20	0.050	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1A0	
		Dilution Factor: 5		Analysis Time...: 18:12	Analyst ID.....: 001637		
		Instrument ID...: I6		MDL.....: 0.0070			

(Continued on next page)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-004

TOTAL Metals

Lot-Sample #...: A2F050101-005

Matrix.....: WG

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
Cobalt	0.069	0.050	mg/L	SW846 6010B	06/06-06/09/02	E2F1Q1A1
		Dilution Factor: 1		Analysis Time...: 10:47	Analyst ID.....: 001011	
		Instrument ID...: I6		MDL.....: 0.0013		
Copper	11.2	0.025	mg/L	SW846 6010B	06/06-06/09/02	E2F1Q1A1
		Dilution Factor: 1		Analysis Time...: 10:47	Analyst ID.....: 001011	
		Instrument ID...: I6		MDL.....: 0.0042		
Iron	1230	0.50	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1A1
		Dilution Factor: 5		Analysis Time...: 18:12	Analyst ID.....: 001637	
		Instrument ID...: I6		MDL.....: 0.44		
Manganese	4.2	0.075	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1A1
		Dilution Factor: 5		Analysis Time...: 18:12	Analyst ID.....: 001637	
		Instrument ID...: I6		MDL.....: 0.0045		
Nickel	0.20	0.040	mg/L	SW846 6010B	06/06-06/09/02	E2F1Q1A1
		Dilution Factor: 1		Analysis Time...: 10:47	Analyst ID.....: 001011	
		Instrument ID...: I6		MDL.....: 0.0022		
Silver	ND	0.010	mg/L	SW846 6010B	06/06-06/09/02	E2F1Q1A1
		Dilution Factor: 1		Analysis Time...: 10:47	Analyst ID.....: 001011	
		Instrument ID...: I6		MDL.....: 0.0015		
Vanadium	0.19 B,G J	0.25	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1A1
		Dilution Factor: 5		Analysis Time...: 18:12	Analyst ID.....: 001637	
		Instrument ID...: I6		MDL.....: 0.0041		
Zinc	48.2	0.10	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1A1
		Dilution Factor: 5		Analysis Time...: 18:12	Analyst ID.....: 001637	
		Instrument ID...: I6		MDL.....: 0.060		
Mercury	0.00077	0.00020	mg/L	SW846 7470A	06/06-06/07/02	E2F1Q1A1
		Dilution Factor: 1		Analysis Time...: 10:57	Analyst ID.....: 001086	
		Instrument ID...: H1		MDL.....: 0.000069		

NOTE(S):

B Estimated result. Result is less than RL.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-004

General Chemistry

Lot-Sample #...: A2F050101-005    Work Order #...: E2F1Q    Matrix.....: WG  
Date Sampled...: 06/04/02 16:10    Date Received...: 06/05/02

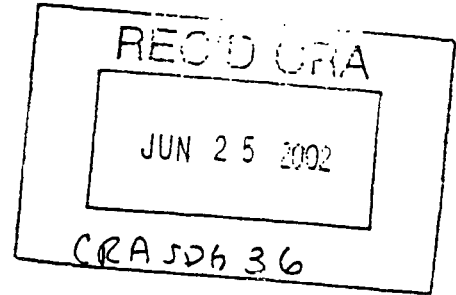
<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Cyanide Amenable to Chlorination	ND	0.010	mg/L	SW846 9012	06/07/02	2158286
		Dilution Factor: 1		MDL.....: 0.010		
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	06/07/02	2158271
		Dilution Factor: 1		MDL.....: 0.0018		



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-nc.com

# ANALYTICAL REPORT



PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2F010102

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

## ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2F010102

Name: GM Bedford

SEVERN TRENT LABORATORIES, INC.

### Description

Event: Stream

Samples: 2-W (5/31-003)

Analysis: PCB-T-D

*Amy L. McCormick*

Amy L. McCormick  
Project Manager

Lab: 2WK

Checked Against Preliminary Data:

Date: 7/9/02 Init.: km

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

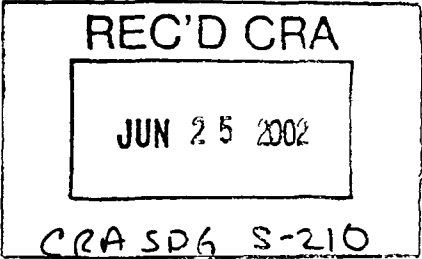
June 20, 2002



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.st-inc.com

### ANALYTICAL REPORT



PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2E300106

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

#### ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2E300106

Name: GM Bedford

SEVERN TRENT LABORATORIES, INC.

Description

Event: Stream

Samples: 1-SW(S/29 - 5013)

Analysis: TCL/TAL

*Amy L. McCormick* / *hmo*

Amy L. McCormick  
Project Manager

TAT: 2 wk

Lab: ETL

Checked Against Preliminary Data:

Date: \_\_\_\_\_ Init.: \_\_\_\_\_

Date of Validation: \_\_\_\_\_ Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

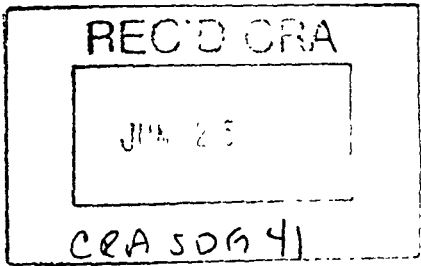
June 19, 2002



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-inc.com

**ANALYTICAL REPORT**



PROJECT NO. 13968  
GMPT-BEDFORD  
Lot #: A2F070107

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

**ORIGINAL ANALYTICAL REPORT**

Project#: 13968 Lab#: A2F070107

SEVERN TRENT LABORATORIES, INC. Name: Bedford

Description

Event: Stream

Samples: 3-W; 3-Soil (6/6)

Analysis: PCB

*Amy L. McCormick*  
Amy L. McCormick  
Project Manager

TAT: 2 W/C

Lab: SFL

Checked Against Preliminary Data:

Date: 7/9/02 Init.: mm

Date of Validation Memo: \_\_\_\_\_

Invoice Approval Date: \_\_\_\_\_

Comments: \_\_\_\_\_

June 22, 2002

# SAMPLE SUMMARY

A2F070107

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
E2L4C	001	GW-060602-452-JW-004	06/06/02	16:10
E2L4E	002	GW-060602-452-JW-004DISS	06/06/02	16:10
E2L4F	003	GW-060602-472-JW-002	06/06/02	11:35
E2L4G	004	GW-060602-472-JW-002DISS	06/06/02	11:35
E2L4H	005	SW-060602-JW-001	06/06/02	10:00
E2L4I	006	SW-060602-JW-001DISS	06/06/02	10:00
E2L4K	007	S-060602-JW-1913	06/06/02	10:23
E2L4O	008	S-060602-GS-1914	06/06/02	10:25
E2L41	009	S-060602-GS-1914A	06/06/02	10:27
E2L43	010	EB-060602-JW-002	06/06/02	10:30

## 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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



**CRA**

CONESTOGA-ROVERS &amp; ASSOCIATES

8615 W. Bryn Mawr Avenue

Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name):

STL-North Canton

K269

**CHAIN OF CUSTODY RECORD**

REFERENCE NUMBER:

13968

PROJECT NAME:

GMPT- Bedford

SAMPLER'S  
SIGNATURE:*George Seng*PRINTED  
NAME:

George Seng

No. OF  
CONTAINERS

PARAMETERS

TDT PCBs  
Pb  
Cu  
Zn  
Mn  
Cd  
Cr  
Ni  
Co  
Fe  
Mg  
Ca  
K  
Na  
S  
Cl  
F  
NO<sub>3</sub><sup>-</sup>  
NO<sub>2</sub><sup>-</sup>  
NH<sub>4</sub><sup>+</sup>  
H<sub>2</sub>O  
pH  
Temp  
DO  
ORP  
EC  
TSS  
Turbidity  
Total Solids  
Total Suspended Solids  
Total Dissolved Solids  
Total Hardness  
Total Alkalinity  
Total Acidity  
Total Ammonia Nitrogen  
Total Phosphorus  
Total Nitrogen  
Total Organic Carbon  
Total Organic Nitrogen  
Total Organic Phosphorus  
Total Organic Sulfur  
Total Organic Chlorine  
Total Organic Fluorine  
Total Organic Bromine  
Total Organic Iodine  
Total Organic Selenium  
Total Organic Tellurium  
Total Organic Antimony  
Total Organic Arsenic  
Total Organic Bismuth  
Total Organic Cadmium  
Total Organic Cobalt  
Total Organic Chromium  
Total Organic Copper  
Total Organic Iron  
Total Organic Lead  
Total Organic Manganese  
Total Organic Mercury  
Total Organic Nickel  
Total Organic Silver  
Total Organic Tin  
Total Organic Vanadium  
Total Organic Zinc  
Total Organic Barium  
Total Organic Boron  
Total Organic Calcium  
Total Organic Magnesium  
Total Organic Potassium  
Total Organic Sodium  
Total Organic Sulfur  
Total Organic Chlorine  
Total Organic Fluorine  
Total Organic Bromine  
Total Organic Iodine  
Total Organic Selenium  
Total Organic Tellurium  
Total Organic Antimony  
Total Organic Arsenic  
Total Organic Bismuth  
Total Organic Cadmium  
Total Organic Cobalt  
Total Organic Chromium  
Total Organic Copper  
Total Organic Iron  
Total Organic Lead  
Total Organic Manganese  
Total Organic Mercury  
Total Organic Nickel  
Total Organic Silver  
Total Organic Tin  
Total Organic Vanadium  
Total Organic Zinc  
Total Organic Barium  
Total Organic Boron  
Total Organic Calcium  
Total Organic Magnesium  
Total Organic Potassium  
Total Organic Sodium

REMARKS

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
1	6/6/02	1135	GW-060602-472-JW-002	H <sub>2</sub> O	4	X	
2		1000	SW-060602-JW-001	H <sub>2</sub> O	2	X	
3		1023	S-060602-JW-1913	SOIL	3	X	
4		1025	S-060602-GS-1914	SOIL	1	X	
5		1027	S-060602-GS-1914A	SOIL	1	X	
6		1030	EB-060602-JW-002	H <sub>2</sub> O	2	X	

TOTAL NUMBER OF CONTAINERS 13

RELINQUISHED BY:

① *George Seng*

DATE: 6/6/02

TIME: 1800

RECEIVED BY:

②

DATE:

TIME:

RELINQUISHED BY:

②

DATE:

TIME:

RECEIVED BY:

③

DATE:

TIME:

RELINQUISHED BY:

③

DATE:

TIME:

RECEIVED BY:

④

DATE:

TIME:

METHOD OF SHIPMENT:

Courier

AIR BILL No.

White

-Fully Executed Copy

Yellow

-Receiving Laboratory Copy

Pink

-Shipper Copy

Goldenrod

-Sampler Copy

SAMPLE TEAM:

G. SENG &amp; Meeli

J. Weinberger

RECEIVED FOR LABORATORY BY:

Anne Sanders

DATE: 6/7/02 TIME: 7:00

08217

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060602-452-JW-004

GC Semivolatiles

Lot-Sample #....: A2F070107-001    Work Order #....: E2L4C1AA    Matrix.....: WG  
 Date Sampled....: 06/06/02 16:10    Date Received...: 06/07/02  
 Prep Date.....: 06/07/02    Analysis Date...: 06/10/02  
 Prep Batch #....: 2158188  
 Dilution Factor: 1    Initial Wgt/Vol: 1000 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1016	ND	0.20	ug/L	0.054
Aroclor 1221	ND	0.20	ug/L	0.11
Aroclor 1232	ND	0.40	ug/L	0.056
Aroclor 1242	ND	0.20	ug/L	0.075
Aroclor 1243	ND	0.20	ug/L	0.061
Aroclor 1254	ND	0.20	ug/L	0.082
Aroclor 1260	ND	0.20	ug/L	0.044

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	97	(45 - 120)
Decachlorobiphenyl	34	(24 - 128)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060602-452-JW-004DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2F070107-002 Work Order #...: E2L4E1AA Matrix.....: WG  
 Date Sampled...: 06/06/02 16:10 Date Received...: 06/07/02  
 Prep Date.....: 06/07/02 Analysis Date...: 06/10/02  
 Prep Batch #...: 2158187  
 Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Dissolved Aroclor-1016	ND	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND	0.20	ug/L	0.044

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Tetrachloro-m-xylene	71	(45 - 120)
Decachlorobiphenyl	61	(24 - 128)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060602-472-JW-002

GC Semivolatiles

Lot-Sample #....: A2F070107-003    Work Order #....: E2L4F1AA    Matrix.....: WG  
 Date Sampled...: 06/06/02 11:35    Date Received...: 06/07/02  
 Prep Date.....: 06/07/02    Analysis Date...: 06/10/02  
 Prep Batch #....: 2158188  
 Dilution Factor: 1    Initial Wgt/Vol: 1000 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1016	ND	0.20	ug/L	0.054
Aroclor 1221	ND	0.20	ug/L	0.11
Aroclor 1232	ND	0.40	ug/L	0.056
Aroclor 1242	ND	0.20	ug/L	0.075
Aroclor 1248	ND	0.20	ug/L	0.061
Aroclor 1254	ND	0.20	ug/L	0.082
Aroclor 1260	ND	0.20	ug/L	0.044

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	65	(45 - 120)
Decachlorobiphenyl	34	(24 - 128)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060602-472-JW-002DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2F070107-004    Work Order #...: E2L4G1AA    Matrix.....: WG  
 Date Sampled...: 06/06/02 11:35    Date Received...: 06/07/02  
 Prep Date.....: 06/07/02    Analysis Date...: 06/10/02  
 Prep Batch #...: 2158187  
 Dilution Factor: 1    Initial Wgt/Vol: 1000 mL    Final Wgt/Vol...: 2 mL  
 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Dissolved Aroclor-1016	ND	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND	0.20	ug/L	0.044

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro- <i>m</i> -xylene	66	(45 - 120)
Decachlorobiphenyl	27	(24 - 128)



STL North Canton  
4101 Shuffel Drive NW  
North Canton, OH 44720-6961

Tel: 330 497 9396  
Fax: 330 497 0772  
www.stl-nc.com

**ANALYTICAL REPORT**

REC'D CRA  
JUL 17 '02  
CRA SDG #42

PROJECT NO. 13968  
GMPT-BEDFORD  
Lot #: A2F110103

Paul Wiseman

Conestoga Rovers & Assoc., Inc  
14496 Sheldon Rd Suite 200  
Plymouth, MI 48170

**ORIGINAL ANALYTICAL REPORT**

Project#: 13968 Lab#: A2F110103  
Name: GMPT BEDFORD

SEVERN TRENT LABORATORIES, INC. Description  
Event: GW(DW) ANALYSIS  
Samples: GW (JW-001)  
Analysis: PCBS; (Total, Dissolved)

TAT: STDRD TAT (14 DAYS)  
Lab: STL-NC.

*Amy L. McCormick*  
Amy L. McCormick  
Project Manager

Checked Against Preliminary Data:  
Date: 7/26/02 Init: m  
Date of Validation Memo: \_\_\_\_\_  
Invoice Approval Date: \_\_\_\_\_  
Comments: \_\_\_\_\_

July 16, 2002



## CASE NARRATIVE

A2F110103

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received June 8, 2002, according to documented sample acceptance procedures.

Polychlorinated Biphenyls were analyzed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

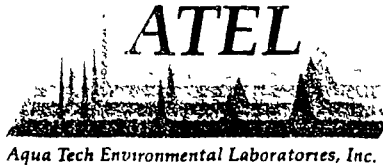
Preliminary results were provided to the Chemistry Department on July 15, 2002

### Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-060702-1250-JW-001	A2F110103-001	MEL02-07030
GW-060702-1250-JW-001 DISS	A2F110103-002	MEL02-07031



Amy McCormick  
Project Manager



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 27-Jun-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-07030

Your Sample ID: A2F110103-1

Date Logged In: 6/13/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/11/2002

PO#: SR039260

**- COLLECTION INFORMATION -**

Date/Time/By: 6/7/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	6/13/02	6/16/02		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1	

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-07030	508	Decachlorobiphenyl (Surr)	69 %R *	70	130
		Low surrogate recovery.			
MEL02-07030	508	Tetrachloro-m-xylene (Surr)	103 %R	70	130

*End of Report*

Report Approved By: Wade T. DeLong  
Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701*

Your Sample ID: A2F110103-1

Lab Number MEL02-07030



**- CERTIFICATE OF ANALYSIS -**

Client #: I0467

Report Date: 27-Jun-02

STL North Canton  
4101 Shuffel Dr NW  
N Canton, OH 44720

Phone: (330) 497-9396 Ext:  
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-07031

Your Sample ID: A2F110103-2

Date Logged In: 6/13/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/11/2002

PO#: SR039260

**- COLLECTION INFORMATION -**

Date/Time/By: 6/7/02

EPA Method	Analyst	Prep Date	Analysis Date		
508	MRW	6/13/02	6/16/02		
	CAS Number	Parameter	Result	Typical Report Limit	
	12674-11-2	Aroclor 1016	<0.08 ug/l	0.08	
	11104-28-2	Aroclor 1221	<0.10 ug/l	0.1	
	11141-16-5	Aroclor 1232	<0.10 ug/l	0.1	
	53469-21-9	Aroclor 1242	<0.10 ug/l	0.1	
	12672-29-6	Aroclor 1248	<0.10 ug/l	0.1	
	11097-69-1	Aroclor 1254	<0.10 ug/l	0.1	
	11096-82-5	Aroclor 1260	<0.10 ug/l	0.1	

**--- Surrogate Recoveries ---**

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-07031	508	Decachlorobiphenyl (Surr)	64 %R *	70	130
		Low surrogate recovery.			
MEL02-07031	508	Tetrachloro-m-xylene (Surr)	89 %R	70	130

*End of Report*

Report Approved By: Wade T. DeLong

Wade T. DeLong

*This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.*

Your Sample ID: A2F110103-2

Lab Number MEL02-07031



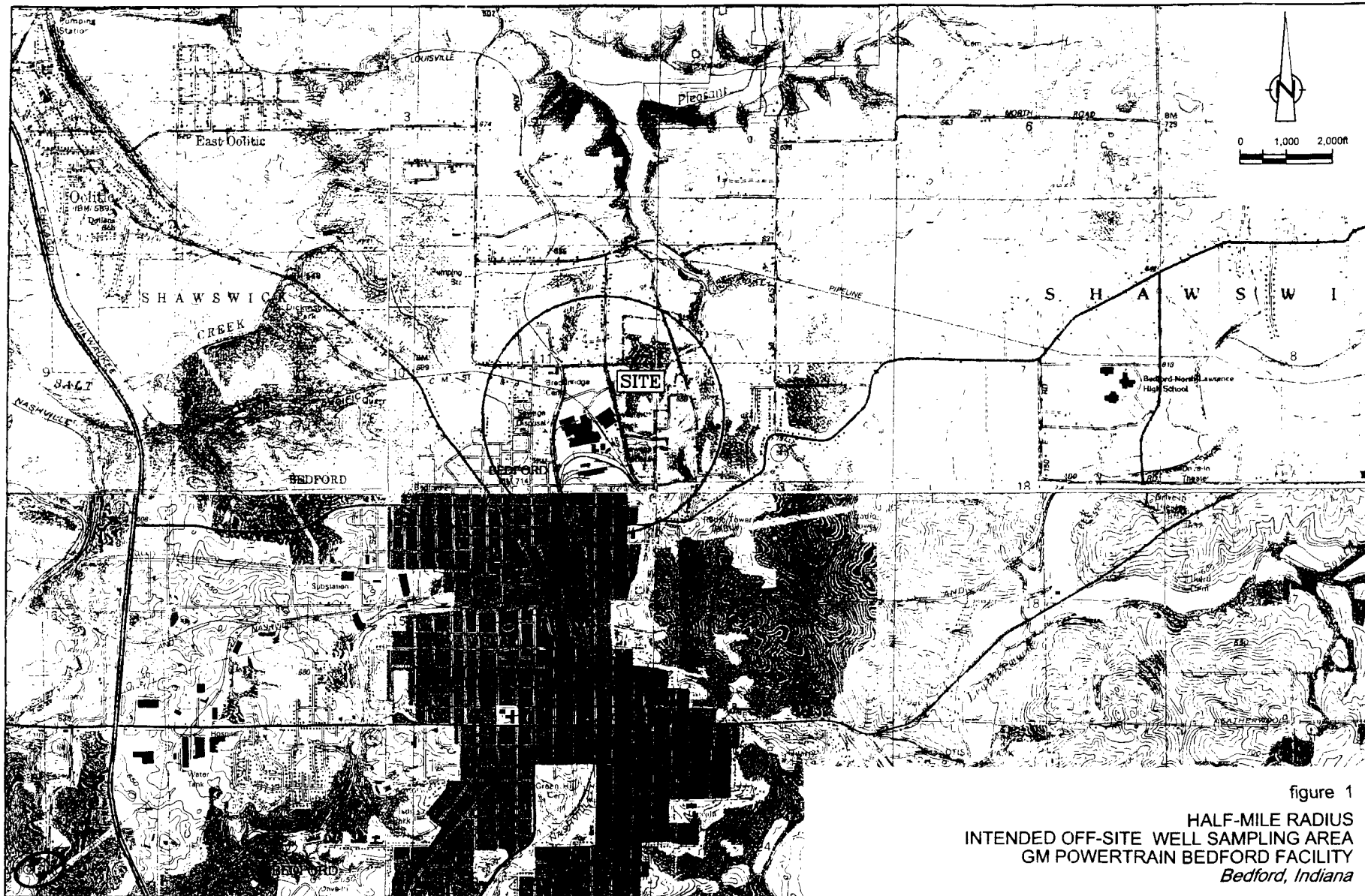
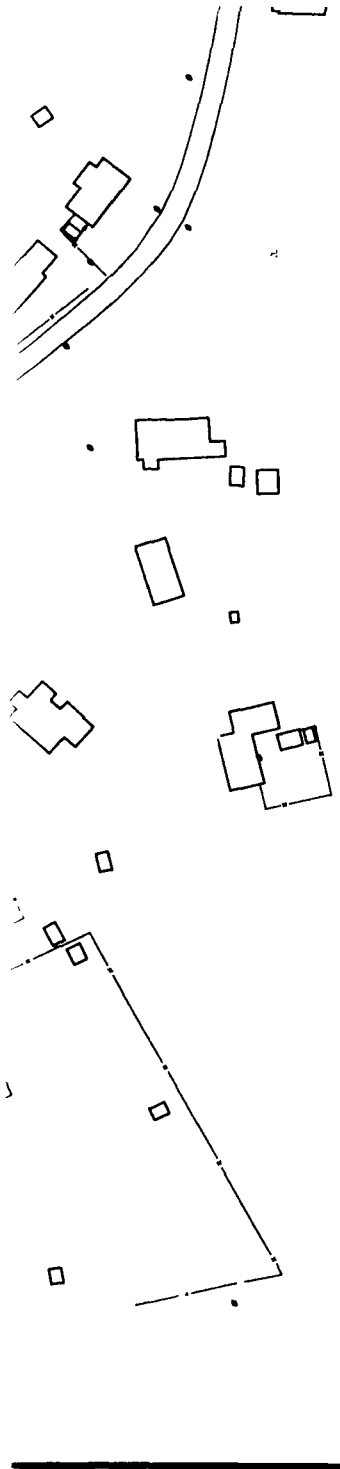


figure 1  
 HALF-MILE RADIUS  
 INTENDED OFF-SITE WELL SAMPLING AREA  
 GM POWERTRAIN BEDFORD FACILITY  
 Bedford, Indiana



Status	Date	Initial
--------	------	---------

**GENERAL MOTORS POWERTRAIN DIVISION  
BEDFORD, INDIANA**

**GENERAL MOTORS POWERTRAIN DIVISION**

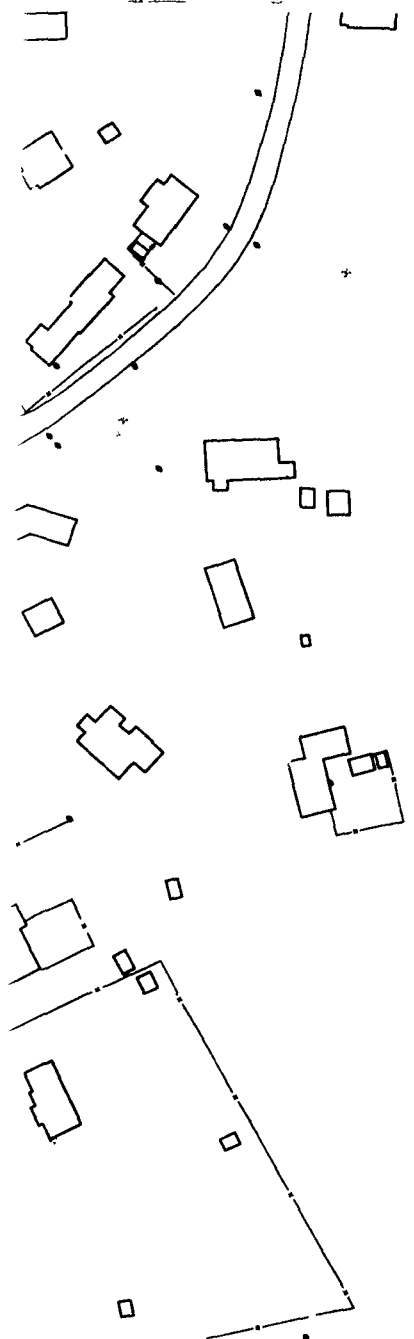
**OFF-SITE WELL SURVEY**



**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:

Project Manager: J. McGUIGAN	Reviewed By: J. NICHOLS	Date: AUGUST 26, 2001	
Scale: AS SHOWN	Project N <sup>o</sup> : 13968-00	Report N <sup>o</sup> : SOURCE	Drawing N <sup>o</sup> : figure 2



Status	Date	Initial
--------	------	---------

**GENERAL MOTORS POWERTRAIN DIVISION  
BEDFORD, INDIANA**

**GENERAL MOTORS POWERTRAIN DIVISION**

**OFF-SITE WELL SURVEY**

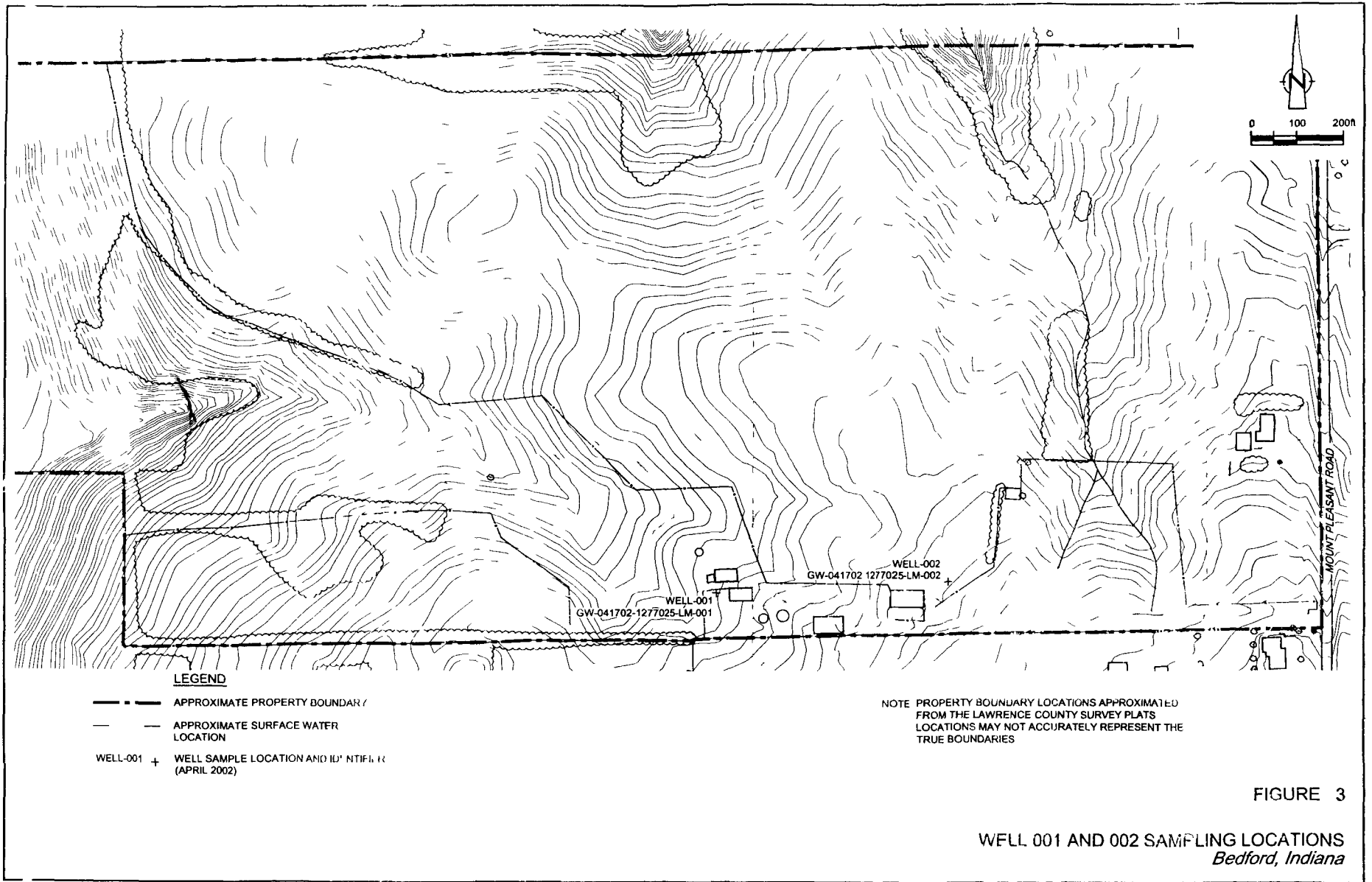


**CONESTOGA-ROVERS & ASSOCIATES**

Source Reference:

Project Manager: J. McGUIGAN	Reviewed By: J. NICHOLS	Date: AUGUST 26, 2001
---------------------------------	----------------------------	--------------------------

Scale: AS SHOWN	Project N <sup>o</sup> : 13968-00	Report N <sup>o</sup> : SOURCE	Drawing N <sup>o</sup> : figure 2
--------------------	--------------------------------------	-----------------------------------	--------------------------------------



# TABLES

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

Sample Location Sample ID. Sample Date	MT PLEASANT WELL		PARCEL 207 WELL*		PARCEL 208 WELL		
	GW-072401-485025-JS-001	GW-072401-485025-JS-002	GW-060402-704013-GS-001	GW-060402-704013-GS-002	GW-072401-620013-LM 001	GW-091501-620013-LM 001	
	7/24/01	7/24/01 Duplicate	6/4/2002	6/4/2002	7/24/01	9/15/01	
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08)	ND (0.55) UJ	ND (0.2) UJ	ND (0.08)	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10)	ND (0.55) UJ	ND (0.2) UJ	ND (0.10)	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10)	ND (0.55) UJ	ND (0.4) UJ	ND (0.10)	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.10)	3.8 J	0.87 J	1.1	0.95
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10)	ND (0.55) UJ	ND (0.2) UJ	ND (0.10)	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10)	ND (0.55) UJ	ND (0.2) UJ	ND (0.10)	ND (0.10)
Aroclor 1260 (PCB 1260)	ug/L	ND (0.10)	ND (0.10)	ND (0.55) UJ	ND (0.2) UJ	ND (0.10)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/l	0	0	3.8 J	0.87 J	1.1	0.95
<b>PCBs (dissolved)</b>							
Aroclor 1016 (PCB-1016), dissolved	ug/l	-	-	-	-	-	-
Aroclor-1221 (PCB-1221), dissolved	ug/L	-	-	-	-	-	-
Aroclor-1232 (PCB-1232), dissolved	ug/l	-	-	-	-	-	-
Aroclor 1242 (PCB-1242), dissolved	ug/L	-	-	-	-	-	-
Aroclor 1248 (PCB 1248), dissolved	ug/L	-	-	-	-	-	-
Aroclor-1254 (PCB-1254), dissolved	ug/L	-	-	-	-	-	-
Aroclor 1260 (PCB 1260), dissolved	ug/l	-	-	-	-	-	-
Sum of Detected PCBs (ND=0)	ug/l	N/A	N/A	N/A	N/A	N/A	N/A

## NOTES

J - The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity.

R = Data Rejected

\* = Oil/Water Mixture



**CONESTOGA-ROVERS & ASSOCIATES**

8615 W. Bryn Mawr Avenue, Chicago, Illinois 60631  
Telephone: (773) 380-9933 Fax: (773) 380-6421  
www.CRAworld.com

**TRANSMITTAL**

DATE: December 17, 2002 REFERENCE NO.: 013968

PROJECT NAME: GM - Bedford

TO: Peter Ramanauskas

U.S.EPA, Region 5

77 West Jackson Boulevard DW-8J

Chicago, Illinois 60604-3590

Please find enclosed:  Draft  Final  
 Originals  Other  
 Prints

Sent via:  Mail  Same Day Courier  
 Overnight Courier  Other

QUANTITY	DESCRIPTION
2	Residential Well Survey and Sampling Technical Memorandum - Table 1 (Pages 1 - 10)

As Requested  For Review and Comment  
 For Your Use

**COMMENTS:**

Page 10 of 10 was inadvertently omitted from previous transmittal dated December 16, 2002, please replace.

Copy to: John Gunter (5 copies)  
Dan Sparks - U.S. FWS  
LaNetta Alexander - ISDH  
Ed Peterson - GM  
Cheryl Hiatt - GM  
Laura Fitzpatrick - GM  
Kathy Bommarito - GM  
Kim Dobensenski - GM  
Bill Schoonmacker - GM  
Glen Turchan - CRA  
Jim McGuigan - CRA  
Rick Bodishbaugh - Exponent  
C.Y. Jeng - Environ

Completed by: Lisa C. Meoli  
[Please Print]

Signed: *Lisa C. Meoli*

Filing: Correspondence File



TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

Sample Location	MT. PLEASANT WELL				PARCEL 207 WELL*		PARCEL 208 WELL	
	Sample ID:	GW-072401-485025-JS-001	GW-072401-485025-JS-002		GW-060402-704013-GS-001	GW-060402-704013-GS-002	GW-072401-620013-LM-001	GW-091501-620013-LM-001
Sample Date	7/24/01		7/24/01	Duplicate	6/4/2002	6/4/2002	7/24/01	9/15/01
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08)		ND (0.55) UJ	ND (0.2) UJ	ND (0.08)	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10)		ND (0.55) UJ	ND (0.2) UJ	ND (0.10)	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10)		ND (0.55) UJ	ND (0.4) UJ	ND (0.10)	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.10)		3.8 J	0.87 J	1.1	0.95
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10)		ND (0.55) UJ	ND (0.2) UJ	ND (0.10)	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10)		ND (0.55) UJ	ND (0.2) UJ	ND (0.10)	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.10)		ND (0.55) UJ	ND (0.2) UJ	ND (0.10)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0		3.8 J	0.87 J	1.1	0.95
<b>PCBs (dissolved)</b>								
Aroclor-1016 (PCB-1016), dissolved	ug/L	-	-		-	-	-	-
Aroclor-1221 (PCB-1221), dissolved	ug/L	-	-		-	-	-	-
Aroclor-1232 (PCB-1232), dissolved	ug/L	-	-		-	-	-	-
Aroclor-1242 (PCB-1242), dissolved	ug/L	-	-		-	-	-	-
Aroclor-1248 (PCB-1248), dissolved	ug/L	-	-		-	-	-	-
Aroclor-1254 (PCB-1254), dissolved	ug/L	-	-		-	-	-	-
Aroclor-1260 (PCB-1260), dissolved	ug/L	-	-		-	-	-	-
Sum of Detected PCBs (NI=0)	ug/L	N/A	N/A		N/A	N/A	N/A	N/A

NOTES

J - The reported laboratory result is qualified as an estimated value

UJ - The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity

R - Data Rejected

\* - Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

Sample Location	PARCEL 211 & 212 WELL		N.JACKSON WELL	L STREET CISTERN		J STREET CISTERN	
	Sample ID	Sample Date	Sample ID	Sample ID	Sample ID	Sample ID	
	GW-072501-216012-LM-001	7/25/01	GW-32802-216012-GS-001	GW-072601-445014-JS-001	GW-080101-411019-JS-001	GW-080101-411019-JS-002	GW-080201-406017-CM-001
		7/25/01		7/26/01	8/1/01	8/1/2001 <i>Duplicate</i>	8/2/2001
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08) UJ	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0	0
<b>PCBs (dissolved)</b>							
Aroclor-1016 (PCB-1016), dissolved	ug/L	-	ND (0.08) UJ	-	-	-	-
Aroclor-1221 (PCB-1221), dissolved	ug/L	-	ND (0.10) UJ	-	-	-	-
Aroclor-1232 (PCB-1232), dissolved	ug/L	-	ND (0.10) UJ	-	-	-	-
Aroclor-1242 (PCB-1242), dissolved	ug/L	-	ND (0.10) UJ	-	-	-	-
Aroclor-1248 (PCB-1248), dissolved	ug/L	-	ND (0.10) UJ	-	-	-	-
Aroclor-1254 (PCB-1254), dissolved	ug/L	-	ND (0.10) UJ	-	-	-	-
Aroclor-1260 (PCB-1260), dissolved	ug/L	-	ND (0.10) UJ	-	-	-	-
Sum of Detected PCBs (ND=0)	ug/l	N/A	0	N/A	N/A	N/A	N/A

## NOTES

J - The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity.

R = Data Rejected

\* Oil/Water Mixture

TABLE 1

ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA

Sample Location:		BRECKINRIDGE CISTERN	THIRD STREET CISTERN	PARCEL 13 WELL		
Sample ID:		GW-080201-1537002-CM-001	GW-080201-1326007-LM-001	GW-080701-330026-JS-001	GW-100101-330026-LM-001	GW-100101-330026-LM-002
Sample Date:		8/2/01	8/2/2001	8/7/01	10/1/01	10/1/01
PCBs						Duplicate
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08)	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0
PCBs (dissolved)						
Aroclor-1016 (PCB-1016), dissolved	ug/L	-	-	-	-	-
Aroclor-1221 (PCB-1221), dissolved	ug/L	-	-	-	-	-
Aroclor-1232 (PCB-1232), dissolved	ug/L	-	-	-	-	-
Aroclor-1242 (PCB-1242), dissolved	ug/L	-	-	-	-	-
Aroclor-1248 (PCB-1248), dissolved	ug/L	-	-	-	-	-
Aroclor-1254 (PCB-1254), dissolved	ug/L	-	-	-	-	-
Aroclor-1260 (PCB-1260), dissolved	ug/L	-	-	-	-	-
Sum of Detected PCBs (ND=0)	ug/L	N/A	N/A	N/A	N/A	N/A

NOTES

J = The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity

R = Data Rejected

\* = Oil/Water Mixture

TABLE 1

ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA

Sample Location:	202 N ST CISTERN		PARCEL 15 WELL	PARCEL 5 WEST WELL		PARCEL 5 EAST WELL
Sample ID:	GW-12902-202021-LM-001	GW-12902-202021-LM-002	GW-021202-314012-JK-001	GW-072401-115012-CM-001	GW-041002-115012-JW-002	GW-041002-115012-LM-001
Sample Date:	1/29/2002	1/29/2002 <i>Duplicate</i>	2/12/02	7/24/01	4/10/2002	4/10/2002
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08) UJ	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/l	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/l	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)
Aroclor 1254 (PCB-1254)	ug/l	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/l	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0
<b>PCBs (dissolved)</b>						
Aroclor-1016 (PCB-1016), dissolved	ug/L	-	-	-	ND (0.08) UJ	ND (0.08)
Aroclor 1221 (PCB-1221), dissolved	ug/L	-	-	-	ND (0.10) UJ	ND (0.10)
Aroclor-1232 (PCB-1232), dissolved	ug/l	-	-	-	ND (0.10) UJ	ND (0.10)
Aroclor-1242 (PCB-1242), dissolved	ug/l	-	-	-	ND (0.10) UJ	ND (0.10)
Aroclor-1248 (PCB-1248), dissolved	ug/L	-	-	-	ND (0.10) UJ	ND (0.10)
Aroclor 1254 (PCB-1254), dissolved	ug/l	-	-	-	ND (0.10) UJ	ND (0.10)
Aroclor 1260 (PCB-1260), dissolved	ug/L	-	-	-	ND (0.10) UJ	ND (0.10)
Sum of Detected PCBs (ND = 0)	ug/l	N/A	N/A	N/A	0	0

NOTES

J = The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity

R = Data Rejected

\* = Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

Sample Location:	PARCEL 18 WELL		PARCEL 20 296 WELL			PARCEL 28 WELL 001	
	GW-040902-414-JW-001	GW-040902-414-JW-002	GW-40402-472-JW-001	GW-060602-472-JW-001	GW-060602-472-JW-002	GW-041702-1277025-LM-001	
Sample ID:							
Sample Date:	4/9/2002	4/9/2002	4/4/2002	6/6/2002	6/6/2002	4/17/2002	
		Duplicate			Duplicate		
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08) UJ	ND (0.20)	ND (0.08) UJ
Aroclor 1221 (PCB 1221)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10)	17 J	ND (0.10) UJ	ND (0.40)	ND (0.10) UJ
Aroclor-1242 (PCB 1242)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor-1248 (PCB 1248)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor 1260 (PCB 1260)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Sum of Detected PCBs (ND=0)	ug/L	0	0	17 J	0	0	0
<b>PCBs (dissolved)</b>							
Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08) UJ	ND (0.20)	ND (0.08) UJ
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor-1232 (PCB-1232), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.40)	ND (0.10) UJ
Aroclor-1242 (PCB-1242), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor-1248 (PCB 1248), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor-1254 (PCB 1254), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor-1260 (PCB-1260), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0	0

## NOTES

J = The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity

R = Data Rejected

\* = Oil/Water Mixture

TABLE 1

ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA

Sample Location	PARCEL 28 WELL 002		PARCEL 209 & 210 WELL			
	Sample ID:	GW-041702-1277025-LM-002	GW-031202-206012-JK-001	GW-031202-206012-JK-002	GW-050702-206012-JW-001	GW-050702-206012-JW-002
Sample Date:	4/17/2002		3/12/2002	3/12/2002 Duplicate	5/7/2002	5/7/2002 Duplicate
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08) UJ	ND (0.08) UJ	ND (0.08) UJ	ND (0.08)	ND (20)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10) UJ	R	R	ND (0.10)	ND (20)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (40)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (20)
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (20)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (20)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (20)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0
<b>PCBs (dissolved)</b>						
Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.08) UJ	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.2)
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.10) UJ	R	R	ND (0.10)	ND (0.2)
Aroclor-1232 (PCB-1232), dissolved	ug/L	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.4)
Aroclor-1242 (PCB-1242), dissolved	ug/L	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1248 (PCB-1248), dissolved	ug/L	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1254 (PCB-1254), dissolved	ug/L	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1260 (PCB-1260), dissolved	ug/L	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0

NOTES

J - The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity

R = Data Rejected

\* - Oil/Water Mixture

TABLE 1

ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA

Sample Location	Sample ID	PARCEL 217 WELL			PARCEL 292 WELL		
		GW-073101-B809012-JS-001	GW-091401-B809012-LM-001	GW-12902-B809012-LM-001	GW-32102-413-JW-001	GW-32102-413-JW-002	GW-032102-413-JW-003
Sample Date:		7/31/01	9/14/01	1/29/2002	3/21/2002	3/21/2002 <i>Duplicate</i>	3/21/2002 <i>Duplicate</i>
<b>PCBs</b>							
Aroclor-1016 (PCB 1016)	ug/L	ND (0.08)	ND (0.08) UJ	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.2)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor 1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.4)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor 1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0	0
<b>PCBs (dissolved)</b>							
Aroclor-1016 (PCB-1016), dissolved	ug/L	-	-	-	ND (0.08)	ND (0.08)	R
Aroclor-1221 (PCB-1221), dissolved	ug/L	-	-	-	ND (0.10)	ND (0.10)	R
Aroclor-1232 (PCB-1232), dissolved	ug/L	-	-	-	ND (0.10)	ND (0.10)	R
Aroclor-1242 (PCB-1242), dissolved	ug/L	-	-	-	ND (0.10)	ND (0.10)	R
Aroclor-1248 (PCB 1248), dissolved	ug/L	-	-	-	ND (0.10)	ND (0.10)	R
Aroclor 1254 (PCB-1254), dissolved	ug/L	-	-	-	ND (0.10)	ND (0.10)	R
Aroclor 1260 (PCB-1260), dissolved	ug/L	-	-	-	ND (0.10)	ND (0.10)	R
Sum of Detected PCBs (ND=0)	ug/L	N/A	N/A	N/A	0	0	N/A

## NOTES

J - The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity.

R = Data Rejected

\* = Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

Sample Location		PARCEL 295 WELL		PARCEL 372 WELL	PARCEL 388 WELL	
		GW-060602-452-JW-003	GW-060602-452-JW-004	GW-041502-403014-JW-001	GW-060502-421-JW-001	GW-060502-421-JW-002
Sample ID		6/6/2002	6/6/2002	4/15/2002	6/5/2002	6/5/2002
Sample Date			Duplicate			Duplicate
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.20)	ND (0.08) UJ	ND (0.20) UJ	ND (0.08)
Aroclor 1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor 1232 (PCB 1232)	ug/L	ND (0.10)	ND (0.40)	ND (0.10) UJ	ND (0.40) UJ	ND (0.10)
Aroclor 1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	0.13 J	0.26 J
Aroclor 1248 (PCB 1248)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor-1254 (PCB 1254)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor 1260 (PCB 1260)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/l	0	0	0	0.13 J	0.26 J
<b>PCBs (dissolved)</b>						
Aroclor 1016 (PCB 1016), dissolved	ug/L	ND (0.08)	ND (0.20)	ND (0.08) UJ	ND (0.20) UJ	ND (0.08)
Aroclor-1221 (PCB 1221), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor 1232 (PCB-1232), dissolved	ug/L	ND (0.10)	ND (0.40)	ND (0.10) UJ	ND (0.40) UJ	ND (0.10)
Aroclor 1242 (PCB-1242), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor 1248 (PCB 1248), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor 1254 (PCB 1254), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor 1260 (PCB 1260), dissolved	ug/l	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/l	0	0	0	0	0

## NOTES

J - The reported laboratory result is qualified as an estimated value

UJ - The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity

R - Data Rejected

\* - Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

Sample Location Sample ID: Sample Date.	PARCEL 394 WELL		PARCEL 412 WELL		PARCEL 413 WELL		
	GW-060702-1250-JW-001	GW-060702-1250-JW-002	GW-053002-715013-JW-001	GW-053002-715013-JW-002	GW-060502-619013-LM-003	GW-060502-619013-LM-004	
	6/7/2002	6/7/2002 <i>Duplicate</i>	5/30/2002	5/30/2002 <i>Duplicate</i>	6/5/2002	6/5/2002 <i>Duplicate</i>	
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.20)	ND (0.08) UJ	ND (0.20) UJ	ND (0.20)	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Aroclor 1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.40)	ND (0.10) UJ	ND (0.40) UJ	ND (0.40)	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	0.16 J	0.20 J
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.20) UJ	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Aroclor 1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.20) UJ	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0.16 J	0.2 J
<b>PCBs (dissolved)</b>							
Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.08)	ND (0.20)	ND (0.08)	ND (0.20)	ND (0.20)	ND (0.08)
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor-1232 (PCB-1232), dissolved	ug/L	ND (0.10)	ND (0.40)	ND (0.10)	ND (0.40)	ND (0.40)	ND (0.10)
Aroclor-1242 (PCB-1242), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor 1248 (PCB-1248), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor-1254 (PCB-1254), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor-1260 (PCB 1260), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0	0

## NOTES

J - The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity

R - Data Rejected

\* - Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

<i>Sample Location.</i>		<i>PARCEL 414 WELL</i>	<i>PARCEL 415 WELL</i>	<i>PARCEL 416 WELL</i>		
<i>Sample ID</i>		<i>GW-050802-514013-JW-001</i>	<i>GW-40202-305012-JW-001</i>	<i>GW-053102-327012-JW 001</i>	<i>GW-053102-327012-JW-002</i>	<i>GW-053102-327012-JW-003</i>
<i>Sample Date</i>		<i>5/8/2002</i>	<i>4/2/2002</i>	<i>5/31/2002</i>	<i>5/31/2002</i>	<i>5/31/2002</i>
					<i>Duplicate</i>	<i>Duplicate</i>
<i>PCBs</i>						
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08) UJ	ND (0.08) UJ	ND (0.08) UJ	ND (0.08) UJ	ND (0.20) UJ
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.20) UJ
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.40) UJ
Aroclor-1242 (PCB-1242)	ug/L	0.74 J	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.20) UJ
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.20) UJ
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.20) UJ
Aroclor 1260 (PCB-1260)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.20) UJ
Sum of Detected PCBs (ND=0)	ug/L	0.74 J	0	0	0	0
<i>PCBs (dissolved)</i>						
Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08) UJ	ND (0.20)
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)
Aroclor-1232 (PCB-1232), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.40)
Aroclor-1242 (PCB-1242), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)
Aroclor-1248 (PCB-1248) dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)
Aroclor-1254 (PCB-1254) dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)
Aroclor-1260 (PCB-1260) dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0

## NOTES

J = The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity

R = Data Rejected

\* = Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

Sample Location	PARCEL 211 & 212 WELL		N JACKSON WELL	L STREET CISTERN		J STREET CISTERN
	GW-072501-216012-LM-001	GW 32802 216012-GS-001	GW-072601-445014-JS-001	GW 080101-411019-JS-001	GW-080101 411019 JS 002	GW 080201-406017 CM-001
Sample ID						
Sample Date	7/25/01	3/28/2002	7/26/01	8/1/01	8/1/2001	8/2/2001
PCBs					Duplicate	
Aroclor 1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08) UJ	ND (0.08)	ND (0.08)	ND (0.05)
Aroclor 1221 (PCB 1221)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor 1232 (PCB 1232)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor 1242 (PCB 1242)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor 1248 (PCB 1248)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor 1260 (PCB 1260)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0
<b>PCBs (dissolved)</b>						
Aroclor 1016 (PCB-1016), dissolved	ug/L		ND (0.08) UJ			
Aroclor 1221 (PCB-1221), dissolved	ug/L		ND (0.10) UJ			
Aroclor 1232 (PCB-1232), dissolved	ug/L		ND (0.10) UJ	-		
Aroclor 1242 (PCB-1242), dissolved	ug/L		ND (0.10) UJ	-		
Aroclor 1248 (PCB 1248), dissolved	ug/L		ND (0.10) UJ	-		
Aroclor-1254 (PCB 1254), dissolved	ug/L		ND (0.10) UJ	-		
Aroclor 1260 (PCB 1260), dissolved	ug/L		ND (0.10) UJ			
Sum of Detected PCBs (ND=0)	ug/L	N/A	0	N/A	N/A	N/A

## NOTES

J - The reported laboratory result is qualified as an estimated value

UJ - The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity.

R - Data Rejected

\* - Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

Sample Location: Sample ID: Sample Date:		BRECKINRIDGE CISTERN	THIRD STREET CISTERN	PARCLL 13 WELL		
		GW-080201-1537002-CM-001 8/2/01	GW-080201-1326007-LM-001 8/2/2001	GW-080701-330026-fs-001 8/7/01	GW-100101-330026-LM-001 10/1/01	GW-100101-330026-LM-002 10/1/01 Duplicate
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08)	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0
<b>PCBs (dissolved)</b>						
Aroclor 1016 (PCB-1016), dissolved	ug/L	-	-	-	-	-
Aroclor-1221 (PCB-1221), dissolved	ug/L	-	-	-	-	-
Aroclor-1232 (PCB-1232), dissolved	ug/L	-	-	-	-	-
Aroclor-1242 (PCB-1242), dissolved	ug/L	-	-	-	-	-
Aroclor 1248 (PCB-1248), dissolved	ug/L	-	-	-	-	-
Aroclor 1254 (PCB-1254), dissolved	ug/L	-	-	-	-	-
Aroclor-1260 (PCB-1260), dissolved	ug/L	-	-	-	-	-
Sum of Detected PCBs (ND=0)	ug/L	N/A	N/A	N/A	N/A	N/A

## NOTES

J - The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity

R = Data Rejected

\* Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

Sample Location: Sample ID: Sample Date:	202 N ST CISTERN		PARCEL 15 WELL	PARCEL 5 WEST WELL		PARCEL 5 EAST WELL	
	GW-12902-202021-LM-001	GW-12902-202021-LM-002	GW-021202-314012-JK-001	GW-072401-115012-CM-001	GW-041002-115012-JW-002	GW-041002-115012-LM-001	
	1/29/2002	1/29/2002 Duplicate	2/12/02	7/24/01	4/10/2002	4/10/2002	
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08)	ND (0.08) UJ	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ	ND (0.10)
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0	0
<b>PCBs (dissolved)</b>							
Aroclor-1016 (PCB-1016), dissolved	ug/L	-	-	-	-	ND (0.08) UJ	ND (0.08)
Aroclor-1221 (PCB-1221), dissolved	ug/L	-	-	-	-	ND (0.10) UJ	ND (0.10)
Aroclor-1232 (PCB-1232), dissolved	ug/L	-	-	-	-	ND (0.10) UJ	ND (0.10)
Aroclor-1242 (PCB-1242), dissolved	ug/L	-	-	-	-	ND (0.10) UJ	ND (0.10)
Aroclor-1248 (PCB-1248), dissolved	ug/L	-	-	-	-	ND (0.10) UJ	ND (0.10)
Aroclor-1254 (PCB-1254), dissolved	ug/L	-	-	-	-	ND (0.10) UJ	ND (0.10)
Aroclor-1260 (PCB-1260), dissolved	ug/L	-	-	-	-	ND (0.10) UJ	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	N/A	N/A	N/A	N/A	0	0

## NOTES

U - The reported laboratory result is qualified as an estimated value

UJ - The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity.

R - Data Rejected

\* = Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

Sample Location	PARCEL 18 WELL		PARCEL 20 296 WELL			PARCEL 28 WELL 001	
	GW 040902 414-JW-001	GW-040902 414 JW-002	GW-40402-472-JW-001	GW 060602-472 JW 001	GW 060602 472-JW-002	GW 041702 1277025-1 M 001	
Sample ID	4/9/2002	4/9/2002	4/4/2002	6/6/2002	6/6/2002	4/17/2002	
Sample Date		Duplicate			Duplicate		
<b>PCBs</b>							
Aroclor 1016 (PC B 1016)	ug/l	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08) UJ	ND (0.20)	ND (0.08) UJ
Aroclor 1221 (PC B 1221)	ug/l	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor 1232 (PC B 1232)	ug/l	ND (0.10)	ND (0.10)	1.7 J	ND (0.10) UJ	ND (0.40)	ND (0.10) UJ
Aroclor 1242 (PC B 1242)	ug/l	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor 1248 (PC B 1248)	ug/l	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor 1254 (PC B 1254)	ug/l	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor 1260 (PC B 1260)	ug/l	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Sum of Detected PCBs (ND=0)	ug/l	0	0	1.7 J	0	0	0
<b>PCBs (dissolved)</b>							
Aroclor 1016 (PC B 1016) dissolved	ug/L	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08) UJ	ND (0.20)	ND (0.08) UJ
Aroclor 1221 (PC B 1221) dissolved	ug/l	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor 1232 (PC B 1232) dissolved	ug/l	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.40)	ND (0.10) UJ
Aroclor 1242 (PC B 1242) dissolved	ug/l	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor 1248 (PC B 1248) dissolved	ug/l	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor 1254 (PC B 1254) dissolved	ug/l	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor 1260 (PC B 1260) dissolved	ug/l	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Sum of Detected PCBs (ND=0)	ug/l	0	0	0	0	0	0

**NOTES**

J - The reported laboratory result is qualified as an estimated value.

UJ - The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity.

R - Data Rejected

\* - Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

Sample Location. Sample ID. Sample Date.	PARCEL 28 WF11 002 GW-041702-1277025-1M-002		PARCEL 209 & 210 WELL			
		4/17/2002	3/12/2002	3/12/2002 Duplicate	5/7/2002	5/7/2002 Duplicate
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08) UJ	ND (0.08) UJ	ND (0.08) UJ	ND (0.08)	ND (20)
Aroclor 1221 (PCB-1221)	ug/l	ND (0.10) UJ	R	R	ND (0.10)	ND (20)
Aroclor 1232 (PCB-1232)	ug/l	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (40)
Aroclor-1242 (PCB 1242)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (20)
Aroclor-1248 (PCB-1248)	ug/l	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (20)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (20)
Aroclor-1260 (PCB-1260)	ug/l	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (20)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0
<b>PCBs (dissolved)</b>						
Aroclor-1016 (PC B-1016), dissolved	ug/L	ND (0.08) UJ	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.2)
Aroclor 1221 (PCB-1221), dissolved	ug/l	ND (0.10) UJ	R	R	ND (0.10)	ND (0.2)
Aroclor-1232 (PC B-1232), dissolved	ug/L	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.4)
Aroclor-1242 (PC B-1242), dissolved	ug/l	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1248 (PCB-1248), dissolved	ug/l	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1254 (PCB-1254), dissolved	ug/l	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1260 (PCB-1260), dissolved	ug/l	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Sum of Detected PCBs (ND=0)	ug/l	0	0	0	0	0

## NOTES

J The reported laboratory result is qualified as an estimated value

UJ The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity.

R Data Rejected

\* Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

Sample Location		PARCEL 217 WELL			PARCEL 292 WELL		
		GW-073101-B809012-JS-001	GW-091401-B809012-LM-001	GW-12902-B809012-LM-001	GW-32102-413-JW-001	GW-32102-413-JW-002	GW-032102-413-JW-003
Sample ID		7/31/01	9/14/01	1/29/2002	3/21/2002	3/21/2002	3/21/2002
Sample Date						Duplicate	Duplicate
<b>PCBs</b>							
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08) UJ	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.2)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.4)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0	0
<b>PCBs (dissolved)</b>							
Aroclor-1016 (PCB-1016), dissolved	ug/L		-	-	ND (0.08)	ND (0.08)	R
Aroclor-1221 (PCB-1221), dissolved	ug/L		-	-	ND (0.10)	ND (0.10)	R
Aroclor-1232 (PCB-1232), dissolved	ug/L		-	-	ND (0.10)	ND (0.10)	R
Aroclor-1242 (PCB-1242), dissolved	ug/L		-	-	ND (0.10)	ND (0.10)	R
Aroclor-1248 (PCB-1248), dissolved	ug/L		-	-	ND (0.10)	ND (0.10)	R
Aroclor-1254 (PCB-1254), dissolved	ug/L		-	-	ND (0.10)	ND (0.10)	R
Aroclor-1260 (PCB-1260), dissolved	ug/L		-	-	ND (0.10)	ND (0.10)	R
Sum of Detected PCBs (ND=0)	ug/L	N/A	N/A	N/A	0	0	N/A

## NOTES

UJ - The reported laboratory result is qualified as an estimated value.

R - The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity.

R - Data Rejected

\* - Oil/Water Mixture

TABLE 1

ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA

Sample Location Sample ID Sample Date	PARCEL 295 WELL		PARCEL 372 WELL	PARCEL 388 WELL		
	GW-060602-452-JW-003	GW-060602-452-JW-004	GW-041502-403014-JW-001	GW-060502-421-JW-001	GW-060502-421-JW-002	
	6/6/2002	6/6/2002 Duplicate	4/15/2002	6/5/2002	6/5/2002 Duplicate	
<b>PCBs</b>						
Aroclor 1016 (PC B 1016)	ug/l	ND (0.08)	ND (0.20)	ND (0.08) UJ	ND (0.20) UJ	ND (0.08)
Aroclor 1221 (PC B 1221)	ug/l	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor 1232 (PC B 1232)	ug/L	ND (0.10)	ND (0.40)	ND (0.10) UJ	ND (0.40) UJ	ND (0.10)
Aroclor 1242 (PC B 1242)	ug/l	ND (0.10)	ND (0.20)	ND (0.10) UJ	0.13 J	0.26 J
Aroclor 1248 (PC B 1248)	ug/l	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor 1254 (PC B 1254)	ug/l	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor-1260 (PC B 1260)	ug/l	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/l	0	0	0	0.13 J	0.26 J
<b>PCBs (dissolved)</b>						
Aroclor 1016 (PC B 1016), dissolved	ug/L	ND (0.08)	ND (0.20)	ND (0.08) UJ	ND (0.20) UJ	ND (0.08)
Aroclor-1221 (PC B-1221), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor 1232 (PCB-1232), dissolved	ug/L	ND (0.10)	ND (0.40)	ND (0.10) UJ	ND (0.40) UJ	ND (0.10)
Aroclor-1242 (PC B-1242), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor-1248 (PC B 1248), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor 1254 (PC B 1254), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor 1260 (PC B 1260), dissolved	ug/l	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0

NOTES

- J - The reported laboratory result is qualified as an estimated value
- UJ - The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity.
- R - Data Rejected
- \* Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

Sample Location Sample ID Sample Date:	PARCEL 394 WELL		PARCEL 412 WELL		PARCEL 413 WELL		
	GW-060702-1250-JW-001	GW-060702-1250-JW-002	GW-053002-715013-JW-001	GW-053002-715013-JW-002	GW-060502-619013-LM-003	GW-060502-619013-LM-004	
	6/7/2002	6/7/2002 Duplicate	5/30/2002	5/30/2002 Duplicate	6/5/2002	6/5/2002 Duplicate	
<b>PCBs</b>							
Aroclor 1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.20)	ND (0.08) UJ	ND (0.20) UJ	ND (0.20)	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Aroclor 1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.40)	ND (0.10) UJ	ND (0.40) UJ	ND (0.40)	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	0.16 J	0.20 J
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.20) UJ	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.20) UJ	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0.16 J	0.2 J
<b>PCBs (dissolved)</b>							
Aroclor 1016 (PCB-1016), dissolved	ug/L	ND (0.08)	ND (0.20)	ND (0.08)	ND (0.20)	ND (0.20)	ND (0.08)
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor-1232 (PCB 1232), dissolved	ug/L	ND (0.10)	ND (0.40)	ND (0.10)	ND (0.40)	ND (0.40)	ND (0.10)
Aroclor-1242 (PCB 1242), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor-1248 (PCB-1248), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor 1254 (PCB-1254), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor 1260 (PCB 1260), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0	0

## NOTES

J = The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity.

R = Data Rejected

\* = Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

<i>Sample Location.</i>		PARCEL 414 WELL	PARCEL 415 WELL	PARCEL 416 WELL		
<i>Sample ID:</i>		GW-050802-514013 JW-001	GW-40202-305012-JW-001	GW-053102-327012-JW-001	GW-053102-327012-JW-002	GW-053102-327012-JW-003
<i>Sample Date.</i>		5/8/2002	4/2/2002	5/31/2002	5/31/2002	5/31/2002
					<i>Duplicate</i>	<i>Duplicate</i>
<i>PCBs</i>						
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08) UJ	ND (0.08) UJ	ND (0.08) UJ	ND (0.08) UJ	ND (0.20) UJ
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.20) UJ
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.40) UJ
Aroclor-1242 (PCB-1242)	ug/L	0.74 J	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.20) UJ
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.20) UJ
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.20) UJ
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.20) UJ
Sum of Detected PCBs (NI)=0	ug/L	0.74 J	0	0	0	0
<i>PCBs (dissolved)</i>						
Aroclor-1016 (PCB-1016) dissolved	ug/L	ND (0.08)	ND (0.08) J	ND (0.08) UJ	ND (0.08) UJ	ND (0.20)
Aroclor-1221 (PCB-1221) dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)
Aroclor-1232 (PCB-1232) dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.40)
Aroclor-1242 (PCB-1242) dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)
Aroclor-1248 (PCB-1248) dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)
Aroclor-1254 (PCB-1254) dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)
Aroclor-1260 (PCB-1260) dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)
Sum of Detected PCBs (NI)=0	ug/L	0	0	0	0	0

## NOTES

J - The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity.

R = Data Rejected

\* = Oil/Water Mixture



*Old Version*

---

## MEMORANDUM

---

TO: Cheryl Hiatt REF. NO.: 013968  
FROM: Lisa Meoli DATE: October 28, 2002  
Bill Steinmann/lg/11  
RE: Off-Site Residential Well Survey and Sampling Technical Memorandum

---

### INTRODUCTION

This Technical Memorandum (TM) presents a summary of the residential well survey and sampling event conducted at the GM Powertrain - Bedford Plant (Bedford Facility) beginning July 23, 2001. This TM presents the scope of work completed and the validated analytical results obtained from groundwater samples collected at various residences through October 25, 2002. All activities were completed in accordance with the following documents:

- June 6, 2001, Off-Site Well Survey and Sampling Work Plan;
- June 6, 2001, Health and Safety Plan;
- June 6, 2001, Community Relations Plan; and
- July 18, 2001, Quality Assurance Project Plan – Preliminary RCRA Facility Investigation Activities.

The following describes the scope of work and results of the Off-Site Well Survey and Sampling program.

### WELL SURVEY

The initial effort consisted of a door-to-door survey conducted by three survey team. Each initial team consisted of one representative from Conestoga-Rovers and Associates (CRA) and one representative from Decision Quest (DQ). The residential well survey covered the entire area within a one half-mile radius of the approximate geographic center of the Bedford Facility (Figure 1). Each team used maps showing all structures currently within this area, which were identified from aerial photographs taken March 27, 2001. The survey teams verified the presence of all structures on each property and interviewed the current occupants to determine the property owner and whether a groundwater supply well, or cistern, was present on the property. If a well or cistern was present, the survey teams determined the current and historical use, and whether the survey team or resident could access the well or cistern to obtain a sample.

All residents visited were given the project Fact Sheets. Residents with an accessible well or cistern were also given an informational letter. The informational letter is provided in Attachment 1. Residents who

were not home or were non-responsive during the first visit were left the project Fact Sheets and a "Sorry we missed you" leaflet at their door (See Attachment 1 for these communication materials). The residents who continued to be non-responsive were visited at least two additional times, many several more times, and were left the fact sheets and a leaflet again on one of these additional visits. Each visit was recorded in the CRA field notebook and DQ logs. If a property appeared abandoned or the survey team was not able to obtain any contact with the resident or owner, tax records were obtained from the Lawrence County or Shawswick Township Tax Assessor's office. Using the owner's name found on the tax record, telephone numbers were obtained through Internet and telephone book research. The DQ representatives attempted to contact these property owners via telephone; and either conducted the well survey over the phone, or arranged an appointment for the survey team to interview the owner in person.

Once the survey team contacted an owner, the CRA representative completed a "Well Survey Form". Information collected on the form included address and phone number of owner and well information. Well information included water source, date of well installation, well depth and location, plumbing material, well casing material, screen material, static water depth and aesthetic qualities of the water. If the property contained an accessible well or cistern, the owner was asked to sign a property access agreement, and the CRA representative sampled the well and completed a "Sample Form" (Attachment 2 presents examples of all forms completed).

As a result of this initial door-to-door survey, which was completed August 10, 2001, approximately 392 properties were visited within the one half-mile radius. These properties contained structures including houses, businesses and churches. Property owners from 350 of the 392 properties were contacted and surveyed during this door-to-door effort.

After August 10<sup>th</sup>, DQ continued to call and send letters to all outstanding property owners who the survey teams had not been able to contact. In addition, another door-to-door survey of the outstanding properties was conducted on September 13, 2001.

In the final stage of this effort, the status of 25 properties remained outstanding. Personalized letters were mailed to 22 of these properties with a return-receipt requested on October 23, 2001. As a result of these letters, five additional properties were completed: four called the information line to report that they did not have a well and one signed an access agreement to allow her cistern to be sampled. Ten properties returned a receipt, but did not respond to the information line about whether they have a well. Seven properties did not return a receipt.

Personalized letters were not sent to three of the outstanding properties. DQ had already been in contact with two of the owners over the telephone. The owner of the first property refused to provide any information, and hung up on DQ. This was counted as a denial, and no further attempt was made to contact the owner. The owner of the second property has never been on the property, which he purchased at a police auction. The owner has indicated that he will contact GM once he has received the deed to the property. The third property owner has never been approached by DQ or CRA. The property has no trespassing signs surrounding it. A neighbor indicated that the property has no water, electricity or phone, and the property owner has knocked down his mailbox so that he cannot receive mail. No further attempts were made on this property.

An overview of the results of the Off-Site Well Survey for the entire half-mile radius is presented on Figure 2. None of the wells surveyed within the half-mile radius of the Plant were used as potable water. However, one well was being used for drinking and a well was utilized for watering the lawn and gardens outside of the half-mile radius, both were non-detect for PCBs.

## WELL SAMPLING

During the initial door-to-door survey from July 23, 2001, through August 10, 2001, 37 wells and 12 cisterns were identified within the half-mile radius of the plant. Of these, seven wells and four cisterns were found to be accessible and were sampled. Analytical data is summarized in Table 1. All cisterns were sampled using disposable bailers. Three wells were sampled using a hand pump, three wells were sampled using disposable bailers and one well was sampled through a spigot. Field measurements of pH, conductivity, temperature and turbidity were measured and recorded on the "Sample Forms" provided in Attachment 2.

Additional sampling occurred from the period of September 14, 2001 through June 7, 2002. No additional samples have been collected from June 7, 2002 until October 25, 2002. In addition to the initial survey, one cistern and twenty-two residential wells were identified and sampled during the follow-up door-to-door well survey or later contact from the well owner amending the information collected during the survey. Eight residential wells were outside of the half-mile radius, but were sampled at the owner's request.

Those wells that showed surrogate recovery inconsistencies and inconclusive data were resampled by CRA on September 14 & 15, 2001, October 1, 2001, January 29, 2002, March 28, 2002, April 10, 2002, May 7, 2002, and June 6, 2002. All sampling was performed in accordance with protocol included in the June 6, 2001 Off-Site Well Survey and Sampling Work Plan. Analytical data is summarized in Table 1.

## RESULTS

Groundwater samples from residential wells were analyzed for total PCBs (EPA Method 508 for Drinking Water), and select samples were also analyzed for dissolved PCBs. Field parameters including pH, temperature, turbidity and specific conductivity were also collected. Of the twenty-two residential wells sampled, six wells had detectable concentrations of PCBs. All of the cisterns sampled were non-detect for PCBs. The analytical results from two of the wells indicated surrogate recovery problems, with percentage of recovery below the acceptable range (70 to 130 percent). Those samples were resampled to confirm analytical data. Analytical results from well and cistern samples are summarized on Table 1 and are included as Attachment 3. Locations for all the wells and cisterns are shown on Figure 2, with the exception of two wells outside the limits of the Figure 2 map. These two wells are shown independently on Figure 3.

The following is a summary of those six wells where PCBs were detected. Refer to Figure 2 for groundwater sample locations.

Polychlorinated Biphenyl's (PCBs) were detected in low-level estimated quantities at a groundwater sample collected from a residential well located on North Lawrence Street. The estimated levels detected for total PCBs were 0.26 µg/L and 0.13 µg/L (duplicate samples had been collected) as summarized in Table 1. Dissolved PCBs were not detected in the water sample from this well. Refer to Table 1 and Figure 2 for sample locations.

PCBs were also detected in four wells located on Barlow Lane to the east of the GM Plant. The results for these four wells are summarized below:

- One well exhibited total PCB concentrations of 1.1 µg/L during the initial sampling. This well was re-sampled, with a total PCB concentration of 0.95 µg/L detected.

- One well exhibited estimated total PCB concentrations of 0.16 µg/L and 0.2 µg/L (duplicate sample). Dissolved PCBs were not detected in either of the duplicate samples.
- One well exhibited an estimated total PCB concentration of 0.74 µg/L. Dissolved PCBs were not detected.
- At one location oil was identified in the well, therefore, the oil/water mixture samples were analyzed for total PCBs. Samples were collected from the oil/water at the top of the water column (LNAPL) and at the bottom of the water column (DNAPL). PCB concentrations were estimated at 3.8 µg/L and 0.87 µg/L, respectively, as summarized in Tables 1.

PCBs were detected in the initial sample obtained from a well located northeast of the Plant on Broomsage Road. This well is outside the half-mile radius, but was sampled at the owner's request. The initial sample obtained from this well had an estimated PCB concentration of 1.7 µg/L. The well was re-sampled for both total and dissolved PCBs. No PCBs, either total or dissolved, were detected in the duplicate samples obtained from the well.

### SUMMARY

- Owners of 372 of the 392 properties within a one half-mile radius of the Bedford Facility have been contacted and surveyed. This survey included the sampling of twenty-three wells and five cisterns, and the resampling of five of these wells by CRA. Twenty property owners could not be found and surveyed. After discussion with the U.S. EPA and the Indiana Department of Environmental Management, GM has concluded the pro-active search for groundwater supply wells, or cisterns, within the one half mile radius of the Bedford Facility. GM will, however, continue to respond to any new information concerning well locations in the investigation area after the date of this TM.

Old Version

**TABLE 1**  
**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING**  
**GM POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

Sample Location Sample ID Sample Date.	MT PLEASANT WELL GW-072401-485025-JS-001 7/24/01	MT PLEASANT WELL GW-072401-485025-JS-002 7/24/01	PARCEL 207 WELL* GW-060402-704013-GS-001 6/4/2002	PARCEL 207 WELL* GW-060402-704013-GS-002 6/4/2002	PARCEL 208 WELL GW-072401 620013 LM-001 7/24/01	
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08)	ND (0.55) UJ	ND (0.2) UJ	ND (0.08)
Aroclor-1221 (PC B-1221)	ug/L	ND (0.10)	ND (0.10)	ND (0.55) UJ	ND (0.2) UJ	ND (0.10)
Aroclor-1232 (PC B-1232)	ug/L	ND (0.10)	ND (0.10)	ND (0.55) UJ	ND (0.4) UJ	ND (0.10)
Aroclor-1242 (PC B-1242)	ug/L	ND (0.10)	ND (0.10)	3.8 J	0.87 J	1.1
Aroclor-1248 (PC B-1248)	ug/L	ND (0.10)	ND (0.10)	ND (0.55) UJ	ND (0.2) UJ	ND (0.10)
Aroclor-1254 (PC B-1254)	ug/L	ND (0.10)	ND (0.10)	ND (0.55) UJ	ND (0.2) UJ	ND (0.10)
Aroclor-1260 (PC B-1260)	ug/L	ND (0.10)	ND (0.10)	ND (0.55) UJ	ND (0.2) UJ	ND (0.10)
Sum of Detected PC Bs (ND=0)	ug/L	0	0	3.8 J	0.87 J	1.1
<b>PCBs (dissolved)</b>						
Aroclor-1016 (PCB-1016), dissolved	ug/L	-	-	-	-	-
Aroclor-1221 (PCB-1221), dissolved	ug/L	-	-	-	-	-
Aroclor-1232 (PCB-1232), dissolved	ug/L	-	-	-	-	-
Aroclor 1242 (PCB 1242), dissolved	ug/L	-	-	-	-	-
Aroclor-1248 (PC B-1248), dissolved	ug/L	-	-	-	-	-
Aroclor-1254 (PC B 1254), dissolved	ug/L	-	-	-	-	-
Aroclor-1260 (PC B-1260), dissolved	ug/L	-	-	-	-	-
Sum of Detected PC Bs (ND=0)	ug/L	N/A	N/A	N/A	N/A	N/A

NOTES

- J = The reported laboratory result is qualified as an estimated value
- UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity
- R = Data Rejected
- \* = Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

<i>Sample Location</i>		<i>PARCEL 208 WELL</i>	<i>PARCEL 211 &amp; 212 WELL</i>	<i>PARCEL 211 &amp; 212 WELL</i>	<i>N JACKSON WELL</i>	<i>1 STREET WELL</i>
<i>Sample ID</i>		<i>GW-091501-620013-LM-001</i>	<i>GW-072501-216012-LM-001</i>	<i>GW-32802-216012-GS-001</i>	<i>GW-072601-445014-JS-001</i>	<i>GW-080101-411019-JS-001</i>
<i>Sample Date</i>		<i>9/15/01</i>	<i>7/25/01</i>	<i>3/28/2002</i>	<i>7/26/01</i>	<i>8/1/01</i>
<b>PCBs</b>						
<i>Aroclor-1016 (PCB-1016)</i>	ug/L	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08)	ND (0.08)
<i>Aroclor-1221 (PCB-1221)</i>	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
<i>Aroclor-1232 (PCB-1232)</i>	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
<i>Aroclor-1242 (PCB-1242)</i>	ug/L	0.95	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
<i>Aroclor-1248 (PCB-1248)</i>	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
<i>Aroclor-1254 (PCB-1254)</i>	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
<i>Aroclor-1260 (PCB-1260)</i>	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
<i>Sum of Detected PCBs (ND=0)</i>	ug/L	0.95	0	0	0	0
<b>PCBs (dissolved)</b>						
<i>Aroclor-1016 (PCB-1016), dissolved</i>	ug/L	-	-	ND (0.08) UJ	-	-
<i>Aroclor-1221 (PCB-1221), dissolved</i>	ug/L	-	-	ND (0.10) UJ	-	-
<i>Aroclor-1232 (PCB-1232), dissolved</i>	ug/L	-	-	ND (0.10) UJ	-	-
<i>Aroclor-1242 (PCB-1242), dissolved</i>	ug/L	-	-	ND (0.10) UJ	-	-
<i>Aroclor-1248 (PCB-1248), dissolved</i>	ug/L	-	-	ND (0.10) UJ	-	-
<i>Aroclor-1254 (PCB-1254), dissolved</i>	ug/L	-	-	ND (0.10) UJ	-	-
<i>Aroclor-1260 (PCB-1260), dissolved</i>	ug/L	-	-	ND (0.10) UJ	-	-
<i>Sum of Detected PCBs (ND=0)</i>	ug/L	N/A	N/A	0	N/A	N/A

## NOTES

- J = The reported laboratory result is qualified as an estimated value
- UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity
- R = Data Rejected
- \* = Oil/Water Mixture

**TABLE 1**  
**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING**  
**GM POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Location</i>	<i>L STREET WELL</i>		<i>J STREET WELL</i>		<i>BRECKINRIDGE WELL</i>		<i>THIRD STREET WELL</i>	
<i>Sample ID</i>	<i>GW-080701-417019-JS-002</i>		<i>GW-080201-406017-CM-001</i>		<i>GW-080201-1537002-CM-001</i>		<i>GW-080201-1326007-LM-001</i>	
<i>Sample Date</i>	<i>8/1/2001</i>		<i>8/2/2001</i>		<i>8/2/01</i>		<i>8/2/2001</i>	
<b>PCBs</b>								
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)		ND (0.08)		ND (0.08)		ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)		ND (0.10)		ND (0.10)		ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)		ND (0.10)		ND (0.10)		ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)		ND (0.10)		ND (0.10)		ND (0.10)
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)		ND (0.10)		ND (0.10)		ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)		ND (0.10)		ND (0.10)		ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)		ND (0.10)		ND (0.10)		ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0		0		0		0
<b>PCBs (dissolved)</b>								
Aroclor-1016 (PCB-1016), dissolved	ug/L	-		-		-		-
Aroclor-1221 (PCB-1221), dissolved	ug/L	-		-		-		-
Aroclor-1232 (PCB-1232), dissolved	ug/L	-		-		-		-
Aroclor-1242 (PCB-1242), dissolved	ug/L	-		-		-		-
Aroclor-1248 (PCB-1248), dissolved	ug/L	-		-		-		-
Aroclor-1254 (PCB-1254), dissolved	ug/L	-		-		-		-
Aroclor-1260 (PCB-1260), dissolved	ug/L	-		-		-		-
Sum of Detected PCBs (ND=0)	ug/L	N/A		N/A		N/A		N/A

**NOTES**

- I = The reported laboratory result is qualified as an estimated value
- UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity
- R = Data Rejected
- \* = Oil/Water Mixture

**TABLE 1**  
**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING**  
**GM POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Location.</i>		<i>PARCEL 13 WELL</i>	<i>PARCEL 13 WELL</i>	<i>PARCEL 13 WELL</i>	<i>CISTERN 202 N ST</i>
<i>Sample ID</i>		<i>GW-080701-330026-JS-001</i>	<i>GW-100101-330026-LM-001</i>	<i>GW-100101-330026-LM-002</i>	<i>GW-12902-202021-LM-001</i>
<i>Sample Date:</i>		<i>8/7/01</i>	<i>10/1/01</i>	<i>10/1/01</i>	<i>1/29/2002</i>
<b>PCBs</b>					
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08) U/I	ND (0.08)	ND (0.08)	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10) U/I	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10) U/I	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10) U/I	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10) U/I	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10) U/I	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10) U/I	ND (0.10)	ND (0.10)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0
<b>PCBs (dissolved)</b>					
Aroclor-1016 (PCB-1016), dissolved	ug/L	-	-	-	-
Aroclor-1221 (PCB-1221), dissolved	ug/L	-	-	-	-
Aroclor-1232 (PCB-1232), dissolved	ug/L	-	-	-	-
Aroclor-1242 (PCB-1242), dissolved	ug/L	-	-	-	-
Aroclor-1248 (PCB-1248), dissolved	ug/L	-	-	-	-
Aroclor-1254 (PCB-1254), dissolved	ug/L	-	-	-	-
Aroclor-1260 (PCB-1260), dissolved	ug/L	-	-	-	-
Sum of Detected PCBs (ND=0)	ug/L	N/A	N/A	N/A	N/A

NOTES

- J = The reported laboratory result is qualified as an estimated value
- U/I = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity
- R = Data Rejected
- \* = Oil/Water Mixture

**TABLE 1**  
**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING**  
**GM POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Location.</i>		<i>CISTERN 202 N ST</i>	<i>PARCEL 15 WELL</i>	<i>PARCEL 5 E WELL</i>	<i>PARCEL 5 E.WELL</i>
<i>Sample ID.</i>		<i>GW-12902-202021-LM-002</i>	<i>GW-021202-314012-JK-001</i>	<i>GW-072401-115012-CM-001</i>	<i>GW-041002-115012-JW-002</i>
<i>Sample Date.</i>		<i>1/29/2002</i>	<i>2/12/02</i>	<i>7/24/01</i>	<i>4/10/2002</i>
<b>PCBs</b>					
Arochlor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08) UJ	ND (0.08)	ND (0.08) UJ
Arochlor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ
Arochlor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ
Arochlor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ
Arochlor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ
Arochlor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ
Arochlor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0
<b>PCBs (dissolved)</b>					
Arochlor 1016 (PCB-1016), dissolved	ug/L	-	-	-	ND (0.08) UJ
Arochlor-1221 (PCB-1221), dissolved	ug/L	-	-	-	ND (0.10) UJ
Arochlor-1232 (PCB-1232), dissolved	ug/L	-	-	-	ND (0.10) UJ
Arochlor-1242 (PCB-1242), dissolved	ug/L	-	-	-	ND (0.10) UJ
Arochlor-1248 (PCB-1248), dissolved	ug/L	-	-	-	ND (0.10) UJ
Arochlor-1254 (PCB-1254), dissolved	ug/L	-	-	-	ND (0.10) UJ
Arochlor-1260 (PCB-1260), dissolved	ug/L	-	-	-	ND (0.10) UJ
Sum of Detected PCBs (ND=0)	ug/L	N/A	N/A	N/A	0

**NOTES**

J = The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity.

R = Data Rejected

\* = Oil/Water Mixture

**TABLE 1**  
**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING**  
**GM POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

Sample Location		PARCEL 5 W WELL	PARCEL 18 WELL	PARCEL 18 WELL	PARCEL 20 296 WELL	PARCEL 20 296 WELL
Sample ID		GW-041002-115012-LM-001	GW-040902-414-JW-001	GW-040902-414-JW-002	GW-40402-472-JW-001	GW-060602-472-JW-001
Sample Date		4/10/2002	4/9/2002	4/9/2002 Duplicate	4/4/2002	6/6/2002
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08) UJ
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	1.7 J	ND (0.10) UJ
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	1.7 J	0
<b>PCBs (dissolved)</b>						
Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08) UJ
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1232 (PCB-1232), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1242 (PCB-1242), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1248 (PCB-1248), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1254 (PCB-1254), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1260 (PCB-1260), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0

## NOTES

J = The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity.

R = Data Rejected

\* = Oil/Water Mixture

**TABLE 1**  
**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING**  
**GM POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Location</i>		<i>PARCEL 20 296 WELL</i>	<i>PARCEL 28 WELL 001</i>	<i>PARCEL 28 WELL 002</i>	<i>PARCEL 209 &amp; 210 WELL</i>	<i>PARCEL 209 &amp; 210 WELL</i>
<i>Sample ID</i>		<i>GW-060602-472-JW-002</i>	<i>GW-041702-1277025-LM-001</i>	<i>GW-041702-1277025-LM-002</i>	<i>GW-031202-206012-JK-001</i>	<i>GW-031202-206012-JK-002</i>
<i>Sample Date</i>		<i>6/6/2002</i>	<i>4/17/2002</i>	<i>4/17/2002</i>	<i>3/12/2002</i>	<i>3/12/2002</i>
		<i>Duplicate</i>				<i>Duplicate</i>
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/L	ND (0.20)	ND (0.08) UJ	ND (0.08) UJ	ND (0.08) UJ	ND (0.08) UJ
Aroclor 1221 (PCB-1221)	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.10) UJ	R	R
Aroclor-1232 (PCB-1232)	ug/L	ND (0.40)	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1242 (PCB 1242)	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1248 (PCB 1248)	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1254 (PC B 1254)	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1260 (PCB 1260)	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0
<b>PCBs (dissolved)</b>						
Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.20)	ND (0.08) UJ	ND (0.08) UJ	ND (0.08)	ND (0.08)
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.10) UJ	R	R
Aroclor-1232 (PCB 1232), dissolved	ug/L	ND (0.40)	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1242 (PCB 1242), dissolved	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor 1248 (PC B-1248), dissolved	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1254 (PC B-1254), dissolved	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1260 (PCB 1260), dissolved	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0

**NOTES**

I = The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity

R = Data Rejected

\* = Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

Sample Location		PARCEL 209 & 210 WELL		PARCEL 209 & 210 WELL	PARCEL 217 WELL	PARCEL 217 WELL
Sample ID		GW-050702-206012-JW-001		GW-050702-206012-JW-002	GW 073101-B809012-JS-001	GW-091401 B809012-LM-001
Sample Date		5/7/2002		5/7/2002	7/31/01	9/14/01
				Duplicate		
<b>PCBs</b>						
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)		ND (20)	ND (0.08)	ND (0.08) UJ
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)		ND (20)	ND (0.10)	ND (0.10) UJ
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)		ND (40)	ND (0.10)	ND (0.10) UJ
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)		ND (20)	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)		ND (20)	ND (0.10)	ND (0.10) UJ
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)		ND (20)	ND (0.10)	ND (0.10) UJ
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)		ND (20)	ND (0.10)	ND (0.10) UJ
Sum of Detected PCBs (ND=0)	ug/L	0		0	0	0
<b>PCBs (dissolved)</b>						
Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.08)		ND (0.2)	-	-
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.10)		ND (0.2)	-	-
Aroclor-1232 (PCB-1232), dissolved	ug/L	ND (0.10)		ND (0.4)	-	-
Aroclor-1242 (PCB-1242), dissolved	ug/L	ND (0.10)		ND (0.2)	-	-
Aroclor-1248 (PCB-1248), dissolved	ug/L	ND (0.10)		ND (0.2)	-	-
Aroclor-1254 (PCB-1254), dissolved	ug/L	ND (0.10)		ND (0.2)	-	-
Aroclor-1260 (PCB-1260), dissolved	ug/L	ND (0.10)		ND (0.2)	-	-
Sum of Detected PCBs (ND=0)	ug/L	0		0	N/A	N/A

## NOTES

- I = The reported laboratory result is qualified as an estimated value
- UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity
- R = Data Rejected
- \* = Oil/Water Mixture

**TABLE 1**  
**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING**  
**GM POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

Sample Location		PARCEL 217 WELL	PARCEL 292 WELL	PARCEL 292 WELL	PARCEL 292 WELL	PARCEL 295 WELL
Sample ID		GW-12902 B809012-LM-001	GW-32102-413-JW-001	GW-32102-413-JW-002	GW-032102-413-JW-003	GW-060602-452-JW 003
Sample Date		1/29/2002	3/21/2002	3/21/2002 Duplicate	3/21/2002 Duplicate	6/6/2002
<b>PCBs</b>						
Aroclor-1016 (PC B-1016)	ug/L	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.2)	ND (0.08)
Aroclor-1221 (PC B 1221)	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)	ND (0.10)
Aroclor-1232 (PC B-1232)	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.4)	ND (0.10)
Aroclor 1242 (PC B 1242)	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)	ND (0.10)
Aroclor 1248 (PC B 1248)	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)	ND (0.10)
Aroclor-1254 (PC B 1254)	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)	ND (0.10)
Aroclor-1260 (PC B-1260)	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0
<b>PCBs (dissolved)</b>						
Aroclor-1016 (PCB 1016), dissolved	ug/L	-	ND (0.08)	ND (0.08)	R	ND (0.08)
Aroclor-1221 (PCB-1221), dissolved	ug/L	-	ND (0.10)	ND (0.10)	R	ND (0.10)
Aroclor-1232 (PCB-1232), dissolved	ug/L	-	ND (0.10)	ND (0.10)	R	ND (0.10)
Aroclor 1242 (PCB-1242), dissolved	ug/L	-	ND (0.10)	ND (0.10)	R	ND (0.10)
Aroclor 1248 (PCB-1248), dissolved	ug/L	-	ND (0.10)	ND (0.10)	R	ND (0.10)
Aroclor 1254 (PC B 1254), dissolved	ug/L	-	ND (0.10)	ND (0.10)	R	ND (0.10)
Aroclor 1260 (PC B-1260), dissolved	ug/L	-	ND (0.10)	ND (0.10)	R	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	N/A	0	0	N/A	0

**NOTES**

- I = The reported laboratory result is qualified as an estimated value
- UI = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity
- R = Data Rejected
- \* = Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

Sample Location		PARCEL 295 WELL	PARCEL 372 WELL	PARCEL 388 WELL	PARCEL 388 WELL	PARCEL 394 WELL
Sample ID		GW-060602-452-JW-004	GW-041502-403014-JW-001	GW-060502-421-JW-001	GW-060502-421-JW-002	GW-060702 1250 JW-001
Sample Date		6/6/2002	4/15/2002	6/5/2002	6/5/2002	6/7/2002
		Duplicate			Duplicate	
<b>PCBs</b>						
Aroclor-1016 (PCB 1016)	ug/L	ND (0.20)	ND (0.08) UJ	ND (0.20) UJ	ND (0.08)	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.40)	ND (0.10) UJ	ND (0.40) UJ	ND (0.10)	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.20)	ND (0.10) UJ	0.13 J	0.26 J	ND (0.10)
Aroclor-1248 (PCB-1248)	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0.13 J	0.26 J	0
<b>PCBs (dissolved)</b>						
Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.20)	ND (0.08) UJ	ND (0.20) UJ	ND (0.08)	ND (0.08)
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)	ND (0.10)
Aroclor-1232 (PCB 1232), dissolved	ug/L	ND (0.40)	ND (0.10) UJ	ND (0.40) UJ	ND (0.10)	ND (0.10)
Aroclor-1242 (PCB-1242), dissolved	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)	ND (0.10)
Aroclor-1248 (PCB-1248), dissolved	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)	ND (0.10)
Aroclor-1254 (PCB-1254), dissolved	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)	ND (0.10)
Aroclor 1260 (PCB 1260), dissolved	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0

## NOTES

J = The reported laboratory result is qualified as an estimated value

UJ - The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity

R = Data Rejected

\* = Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

<i>Sample Location</i>		<i>PARCEL 394 WELL</i>	<i>PARCEL 412 WELL</i>	<i>PARCEL 412 WELL</i>	<i>PARCEL 413 WELL</i>	<i>PARCEL 413 WELL</i>
<i>Sample ID</i>		<i>GW-060702-1250-JW-002</i>	<i>GW-053002-715013-JW-001</i>	<i>GW-053002-715013-JW-002</i>	<i>GW-060502-619013-LM-003</i>	<i>GW-060502-619013-LM-004</i>
<i>Sample Date</i>		<i>6/7/2002</i>	<i>5/30/2002</i>	<i>5/30/2002</i>	<i>6/5/2002</i>	<i>6/5/2002</i>
		<i>Duplicate</i>		<i>Duplicate</i>		<i>Duplicate</i>
<b>PCBs</b>						
Aroclor 1016 (PCB-1016)	ug/L	ND (0.20)	ND (0.08) UJ	ND (0.20) UJ	ND (0.20)	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.40)	ND (0.10) UJ	ND (0.40) UJ	ND (0.40)	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	0.16 J	0.20 J
Aroclor-1248 (PCB-1248)	ug/L	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Aroclor 1254 (PCB-1254)	ug/L	ND (0.20) UJ	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.20) UJ	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0.16 J	0.2 J
<b>PCBs (dissolved)</b>						
Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.20)	ND (0.08)	ND (0.20)	ND (0.20)	ND (0.08)
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor-1232 (PCB-1232), dissolved	ug/L	ND (0.40)	ND (0.10)	ND (0.40)	ND (0.40)	ND (0.10)
Aroclor-1242 (PCB-1242), dissolved	ug/L	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor 1248 (PCB-1248), dissolved	ug/L	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor-1254 (PCB-1254), dissolved	ug/L	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor-1260 (PCB-1260), dissolved	ug/L	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0

## NOTES

- J - The reported laboratory result is qualified as an estimated value
- UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity
- R = Data Rejected
- \* = Oil/Water Mixture

**TABLE 1**  
**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING**  
**GM POWERTRAIN BEDFORD FACILITY**  
**BEDFORD, INDIANA**

<i>Sample Location</i>		<i>PARCEL 414 WELL</i>	<i>PARCEL 415 WELL</i>	<i>PARCEL 416 WELL</i>	<i>PARCEL 416 WELL</i>
<i>Sample ID</i>		<i>GW-050802-514013-JW-001</i>	<i>GW-40202-305012-JW-001</i>	<i>GW-053102-327012-JW-001</i>	<i>GW-053102-327012-JW-002</i>
<i>Sample Date</i>		<i>5/8/2002</i>	<i>4/2/2002</i>	<i>5/31/2002</i>	<i>5/31/2002</i> <i>Duplicate</i>
<b>PCBs</b>					
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08) UJ	ND (0.08) UJ	ND (0.08) UJ	ND (0.08) UJ
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1242 (PCB-1242)	ug/L	0.74 J	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ
Sum of Detected PCBs (ND=0)	ug/L	0.74 J	0	0	0
<b>PCBs (dissolved)</b>					
Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08) UJ
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1232 (PCB-1232), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1242 (PCB-1242), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1248 (PCB-1248), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1254 (PCB-1254), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Aroclor-1260 (PCB-1260), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0

**NOTES**

- J = The reported laboratory result is qualified as an estimated value
- UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity
- R = Data Rejected
- \* = Oil/Water Mixture

TABLE 1

**ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING  
GM POWERTRAIN BEDFORD FACILITY  
BEDFORD, INDIANA**

*Sample Location**Sample ID.**Sample Date***PARCEL 416 WELL****GW-053102-327012-JW-003****5/31/2002****Duplicate****PCBs**

Aroclor-1016 (PCB-1016)	ug/L	ND (0.20) UJ
Aroclor-1221 (PCB-1221)	ug/L	ND (0.20) UJ
Aroclor-1232 (PCB-1232)	ug/L	ND (0.40) UJ
Aroclor-1242 (PCB-1242)	ug/L	ND (0.20) UJ
Aroclor-1248 (PCB-1248)	ug/L	ND (0.20) UJ
Aroclor-1254 (PCB-1254)	ug/L	ND (0.20) UJ
Aroclor-1260 (PCB-1260)	ug/L	ND (0.20) UJ

Sum of Detected PCBs (ND=0)	ug/L	0
-----------------------------	------	---

**PCBs (dissolved)**

Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.20)
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.20)
Aroclor-1232 (PCB-1232), dissolved	ug/L	ND (0.40)
Aroclor-1242 (PCB-1242), dissolved	ug/L	ND (0.20)
Aroclor-1248 (PCB-1248), dissolved	ug/L	ND (0.20)
Aroclor-1254 (PCB-1254), dissolved	ug/L	ND (0.20)
Aroclor-1260 (PCB-1260), dissolved	ug/L	ND (0.20)

Sum of Detected PCBs (ND=0)	ug/L	0
-----------------------------	------	---

**NOTES**

I = The reported laboratory result is qualified  
as an estimated value

UJ = The analyte was not detected above the  
sample reporting detection limit. The reported  
detection limit is an estimated quantity

R = Data Rejected

\* = Oil/Water Mixture