



**FINAL REMOVAL ACTION LETTER REPORT  
OUTBOARD MARINE CORPORATION SITE  
WAUKEGAN, LAKE COUNTY, ILLINOIS**

Prepared for:

**U.S. ENVIRONMENTAL PROTECTION AGENCY  
Region 5 Emergency Response Branch  
77 West Jackson Boulevard  
Chicago, IL 60604**

TDD No.:	S05-0608-001
Date Prepared:	21 November, 06
Contract No.:	EP-S5-06-03
Prepared by:	TN & Associates, Inc.
TN&A START Project Manager:	Naren Babu
Telephone No.:	(312) 220-7000
U.S. EPA On-Scene Coordinator:	Ken Theisen
Telephone No.:	(312) 802-2834

Prepared by:



service disabled veteran owned small business

125 South Wacker Drive, Suite 1180  
Chicago, IL 60606

November 21, 2006

Mr. Ken Theisen  
On-Scene Coordinator  
Emergency Response Branch  
U.S. Environmental Protection Agency Region 5  
77 West Jackson Boulevard  
Chicago, IL 60604

**Subject: Final Removal Action Letter Report  
Outboard Marine Corporation Site  
Waukegan, Lake County, Illinois  
Technical Direction Document No. S05-0608-001**

Dear Mr. Theisen:

STN Environmental JV (STN), a Superfund Technical Assessment and Response Team (START) contractor, has prepared this removal action letter report in accordance with the requirements of U.S. Environmental Protection Agency (U.S. EPA) Technical Direction Document (TDD) No. S05-0608-001. The scope of this TDD was to conduct removal action activities at the former Outboard Marine Corporation (OMC) site in Waukegan, Lake County, Illinois. START was tasked to prepare a health and safety plan, conduct oversight of removal activities, collect water, sediment and wipe samples, document on-site conditions with written logbook notes and still photographs (see Appendix A), and prepare a removal action letter report. Removal activities were conducted by U.S. EPA's Emergency and Rapid Response Services (ERRS) contractor, Environmental Quality Management, Inc. and its subcontractors K Plus Engineering Ltd. START activities were performed by T.N. & Associates, Inc., (TN&A), which is a member of STN.

This removal action letter report summarizes the site background; discusses the removal action activities, including sampling activities; and provides a summary of the removal action. Appendix A of this letter report presents a photographic log of removal action activities and Appendix B provides sample analytical results. Analytical services were procured by ERRS, EQM, Inc. and START received the results later from ERRS.



## **Site Background**

The 124-acre OMC site is located near 200 Sea Horse Drive (Plant 1 address) in Waukegan, Lake County, Illinois. The OMC site is bordered to the north by a ditch (North Ditch) and the North Shore Sanitary District Plant; to the east by public beaches on Lake Michigan; to the south by Sea Horse Drive; and to the west by the Elgin, Joliet, and Eastern Railroad. The OMC site consists of Plant 1, Plant 2, and various other buildings, as well as land surrounding the buildings. South of plant 2, between Sea Horse Drive and Plant 1, is the Waukegan Coke Plant Superfund Site (owned by OMC) and the National Gypsum Company. In December 2000, OMC filed under Chapter 11 for bankruptcy and ceased operations at Plant 2. Bombardier Motor Corporation ( Bombardier) owns Plant 1 of the former facility and bought assets located in Plant 2. The Plant 2 building is approximately 1,036,000 square feet in size and previous activities included aluminum die-casting, metal finishing, metal degreasing, spray painting, and shipping/receiving.

In December 2005, at the direction of U.S. EPA, soil was excavated from the lagoon area located outside the east end of the OMC property, where sewer line from the OMC building meets the lagoon. These excavation activities were conducted by ERRS contractor EQ Management, Inc. Soil samples were collected and analyzed for Polychlorinated Biphenyls (PCBs) before and after excavation to determine the extent of contamination and the effectiveness of the excavations.

In July 2006, the Settling Defendants for the adjacent "Waukegan Coke Plant Superfund Site" were planning to build a water treatment plant in the contaminated part of the OMC building. U. S. EPA's Remedial Project Manager requested assistance from the Emergency Response Branch to clean the sewer's lines as the result of sampling showing PCB concentrations as high as 130 ppm in sludge found in the line. The line needs to be free from contamination as the result of the intended discharge of "non-contact" cooling water that is planned to be discharged from the water treatment plant to Lake Michigan.

## **Removal Action Activities**

Removal action activities at the site included pumping water out from lagoon and sewer, removal of sludge from the sewer, treatment of water, transportation and disposal of sludge.

During the week of August 14, 2006, ERRS and START mobilized to the site. ERRS pumped water out from the lagoon area to an holding area about 200 ft away from the lagoon. ERRS mobilized fract tanks (20,000 gallon storage tanks) and carbon filtration drums. They were staged at the northwest corner of the



facility behind the OMC buildings. Fract tanks were used for temporary storage of pumped water before it was treated. Carbon filtration drums were used to set up the treatment plant on site near fract tanks. The initial plan was to pump out all the water from the lagoon to stop water flowing into the sewer and then remove water and sludge from manholes and sewer. Sludge removal was conducted by K Plus, a subcontractor to ERRS, using Guzzler sludge tank and Cusco vacuum tank. Later ground water was found to seeping into the lagoon area at a constant flowrate. So, water from lagoon and sewer was pumped out everyday before removing sludge from sewer. This caused a significant delay in completing the project because more volume of water than estimated was pumped out from the sewer and treated on site. ERRS set up the water treatment plant near the fract tanks.

START collected four wipe samples from the sludge tank (Guzzler), jet truck's pick head, connecting rod and vacuum tank to ensure that these equipments were free of PCB contamination when they were mobilized to the site. The wipe samples were collected using hexane wetted sterile gauze pads and 10cm x 10 cm disposable templates. START collected a water sample after it was treated by the filtration systems. The samples were stored in iced pack and sent to TestAmerica laboratory, Buffalo Grove, IL for PCB analysis. ERRS were responsible for procuring the laboratory services and the analytical results. Wipe and water samples were analyzed for PCB analysis by U.S. EPA SW-846 Method 8082 with a detection limit of 0.42 micrograms per wipe ( $\mu\text{g/wipe}$ ) and 33 micrograms per liter ( $\mu\text{g/l}$ ) respectively. The analytical results for PCBs were nondetect for all samples. The analytical results were received by START from ERRS and shown in Table 1.

ERRS subcontractor pumped water and sludge out from the sewer line and manholes, between OMC building and the lagoon area, using vacuum tank and sludge tank. Water from the trucks was unloaded and stored in the fract tank. A beaver was found to be inhabiting the sewer line and the lagoon area. Huge piles of sand and few wood chunks, possibly brought into the sewer line by the beaver, were removed from the manholes.

ERRS subcontractor performed confined space entry into the sewer line to remove sludge from it by jetting the sludge with water and pumping into the sludge tank. On August 18, 2006. ERRS mobilized a JD 160 excavator to mix the sludge with cleanup sand, which is a PCB contaminated soil from previous removal action. Sludge collected into sludge tank was discharged into the sludge treatment area, which is a former concrete secondary containment location, and was mixed with cleanup sand using the excavator. ERRS subcontractor continued to clean the sewer lines after entering the confined space through manholes everyday.



**TABLE 1**  
**POLYCHLORINATED BIPHENYL ANALYTICAL RESULTS**  
**OUTBOARD MARINE CORPORATION SITE,**  
**WAUKEGAN, LAKE COUNTY, ILLINOIS**

Sample ID	PCB Result
<b>WIPE</b>	<b>(<math>\mu\text{g/wipe}</math>)</b>
Wipe-1 (Guzzler)	ND
Wipe-2 (Pick Head-Jet)	ND
Wipe-3 (Jet-Rod)	ND
Wipe-4 (CUSCO Tank)	ND
Wipe-5 (Guzzler)	1.64
Wipe-6 (Pick Head-Jet)	ND
Wipe-7 (Jet-Rod)	ND
Wipe-8 (CUSCO Tank)	35.0
Wipe-9 (CUSCO Tank)	ND
<b>WATER</b>	<b>(<math>\mu\text{g/l}</math>)</b>
Treated Water-1	ND
<b>SOIL</b>	<b>(<math>\mu\text{g/kg}</math>)</b>
Surface Grab	966

**Notes:**

$\mu\text{g/wipe}$  = Microgram per wipe

$\mu\text{g/l}$  = Microgram per liter

$\mu\text{g/kg}$  = Microgram per kilogram dry sediment

PCB = Polychlorinated biphenyl

All analyses were conducted by TestAmerica, Buffalo Grove, IL.



During the week of August 21, 2006, ERRS mobilized an additional pump to the site to pump water from the lagoon area as the area was completely filled with water due to heavy rain during the weekend. K plus continued with the removal of sludge from sewer after pumping water from sewer.

ERRS continued the treatment of water from the fract tank and the treated water was discharged into a storm sewer. After cleaning up sewer completely free of sludge, ERRS subcontractor used a low pH chemical solution for the removal of PCBs from sewer. This PCB clean up solution is called as 'Less than 10' by its trade name. It is manufactured by Chemical Solution International Corporation, Houston, Texas. The PCB clean up solution was mixed with water at 1:30 ratio and applied to the sewer line to remove any remaining PCBs from the sewer walls. Chemical solution was manually sprayed in the manholes and jetter was used for the sewer line. Sewer line was rinsed with fresh water after applying PCB cleanup solution. The rinsed water was pumped out using sludge tank and stored in fract tanks for treatment. ERRS subcontractor mobilized a video crew to the site. Since the video kit was not equipped with a crawler and flash lights, the quality of the video was poor. Video-filming was stopped and later it was abandoned.

On August 24, 2006, K Plus performed decontamination of sludge tank and vacuum tank after draining the water and discharging the sludge into fract tank and treatment area respectively. START collected wipe samples from sludge tank, jet truck's pick head, connecting rod and vacuum tank. START collected a composite surface grab sediment sample from the lagoon area. The samples were stored in iced pack and sent to TestAmerica laboratory, Buffalo Grove, IL for PCB analysis (U.S. EPA SW-846 Method 8082). ERRS mobilized portland cement bags to mix with sludge in the treatment area on August 25, 2006. All analytical results of wipe samples for PCBs were nondetect except for the wipe taken from vacuum tank which had more than 30 micrograms of PCBs per wipe ( $\mu\text{g/wipe}$ ). Surface grab sediment sample had 966 micrograms of PCBs per kilogram ( $\mu\text{g/kg}$ ). This result was comparable to the PCB levels reported for the samples collected by the City of Waukegan from the lagoon. Sludge tank, jet truck and its accessories were demobilized. Decon of vacuum tank and fract tank was performed on August, 26, 2006 by ERRS subcontractor.

START collected a wipe sample from vacuum tank on August 28, 2006 sent to TestAmerica laboratory for PCB analysis. The analytical result of wipe sample for PCB analysis was nondetect. ERRS shipped the sludge after mixing it with cleanup sand and Portland cement using a truck to the Veolia Onyx Zion Landfill located in Zion, IL for disposal.



ERRS and START demobilized from the site on August 28, 2006.

## Summary

Sewer line and manholes were decontaminated completely free of sand and sludge. Contaminated water removed from the sewer was treated and discharged into a storm sewer at the site. The PCB analytical result for the treated water sample was non-detect. A total of approximately 42,000 gallons of water was treated at the site. Contaminated sludge removed from the sewer was mixed with cleanup sand, which is PCB contaminated soil from a previous removal action, and Portland cement. A total of approximately 60 tons of low level PCB-contaminated non-TSCA waste was transported to the Veolia Onyx Zion Landfill located in Zion, IL for disposal.

If you have any questions or comments regarding this letter report or require any additional information, please contact me at (312) 220-7000.

Sincerely,



Naren Babu

STN START Project Manager

Appendix A      Photographic Log

Appendix B      Sample Analytical Results

cc:      Lorraine Kosik, U.S. EPA START Project Officer

            Raghunath Nagam, STN START Program Manager



**APPENDIX A**

**PHOTOGRAPHIC LOG**

(20 Pages)





**OFFICIAL PHOTOGRAPH No. 1**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 14, 2006                      Time: 1029 hours

**Photographer:** Naren Babu    **Orientation:** Southeast

**Subject:** 4" hose pumping water from the pond/lagoon area.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 2  
U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 14, 2006                      **Time:** 1030 hours

**Photographer:** Naren Babu      **Orientation:** Southwest

**Subject:** 2" hose pumping water from the pond/lagoon area.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 3  
U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 16, 2006                      **Time:** 0853 hours

**Photographer:** Naren Babu      **Orientation:** Southwest

**Subject:** K Plus crew using the water jet and Guzzler sludge tank to remove contaminated sludge from sewer line between OMC building and the lagoon area.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 4**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 17, 2006                      Time: 0847 hours

**Photographer:** Naren Babu      **Orientation:** Southwest

**Subject:** Treatment plant was staged near the fract (20,000 gallon storage) tank. The treated water was sampled and found to be nondetect for Polychlorinated biphenyls (PCBs). It was discharged into the storm sewer line which runs from the back of the OMC building towards north direction.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 5  
U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 17, 2006                      **Time:** 1219 hours

**Photographer:** Naren Babu      **Orientation:** Southwest

**Subject:** Beaver hiding in the sewer line is identified to be moving towards the east end of the lagoon.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 6  
U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 17, 2006                      Time: 1425 hours

**Photographer:** Naren Babu    **Orientation:** Southwest

**Subject:** Another fract tack was mobilized and used to store the treated water from the plant.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 7  
U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 17, 2006                      **Time:** 1445 hours

**Photographer:** Naren Babu      **Orientation:** Southwest

**Subject:** K Plus crew entered the confined space to clean the sewer after acquiring a confined space entry permit.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 8**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 17, 2006                      **Time:** 1450 hours

**Photographer:** Naren Babu      **Orientation:** Southeast

**Subject:** The manhole near the lagoon area (east) after it was cleaned. Three lines running into the east end from the manhole is identified.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team





**OFFICIAL PHOTOGRAPH No. 9**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 17, 2006                      **Time:** 1626 hours

**Photographer:** Naren Babu      **Orientation:** Southwest

**Subject:** Fract tank was used to store the water, which was pumped from the sewer line, temporarily. Later it was treated using the treatment plant staged near the fract tanks.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 10**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 18, 2006                      Time: 1248 hours

**Photographer:** Naren Babu    **Orientation:** Northeast

**Subject:** Sludge was unloaded from sludge truck to the treatment area.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 11**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 22, 2006                      **Time:** 1310 hours

**Photographer:** Naren Babu      **Orientation:** South

**Subject:** Huge sand pile was found in the sewer line around the manhole near the OMC building which might have been brought into sewer by the beaver.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 12**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 22, 2006                      **Time:** 1405 hours

**Photographer:** Naren Babu      **Orientation:** Northwest

**Subject:** ERRS mixing sludge with cleanup sand using JD 160 excavator.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 13**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 22, 2006                      **Time:** 1552 hours

**Photographer:** Naren Babu    **Orientation:** West

**Subject:** ERRS subcontractor performing decon of vacuum truck after unloading the contaminated sludge to the treatment area.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 14**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 23, 2006                      **Time:** 0739 hours

**Photographer:** Naren Babu      **Orientation:** North

**Subject:** 'Less than 10' PCB cleanup solution was mixed with water at approximately 1:30 ratio and it was sprayed inside the sewer line for the removal of any remaining PCBs on the walls of sewer.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 15**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 23, 2006                      **Time:** 1023 hours

**Photographer:** Naren Babu    **Orientation:** West

**Subject:** ERRS subcontractor applying the PCB cleanup solution to the sewer line using the jet.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 16**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 23, 2006                      **Time:** 1259 hours

**Photographer:** Naren Babu      **Orientation:** East

**Subject:** Beaver is identified in the lagoon area.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team





**OFFICIAL PHOTOGRAPH No. 17**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

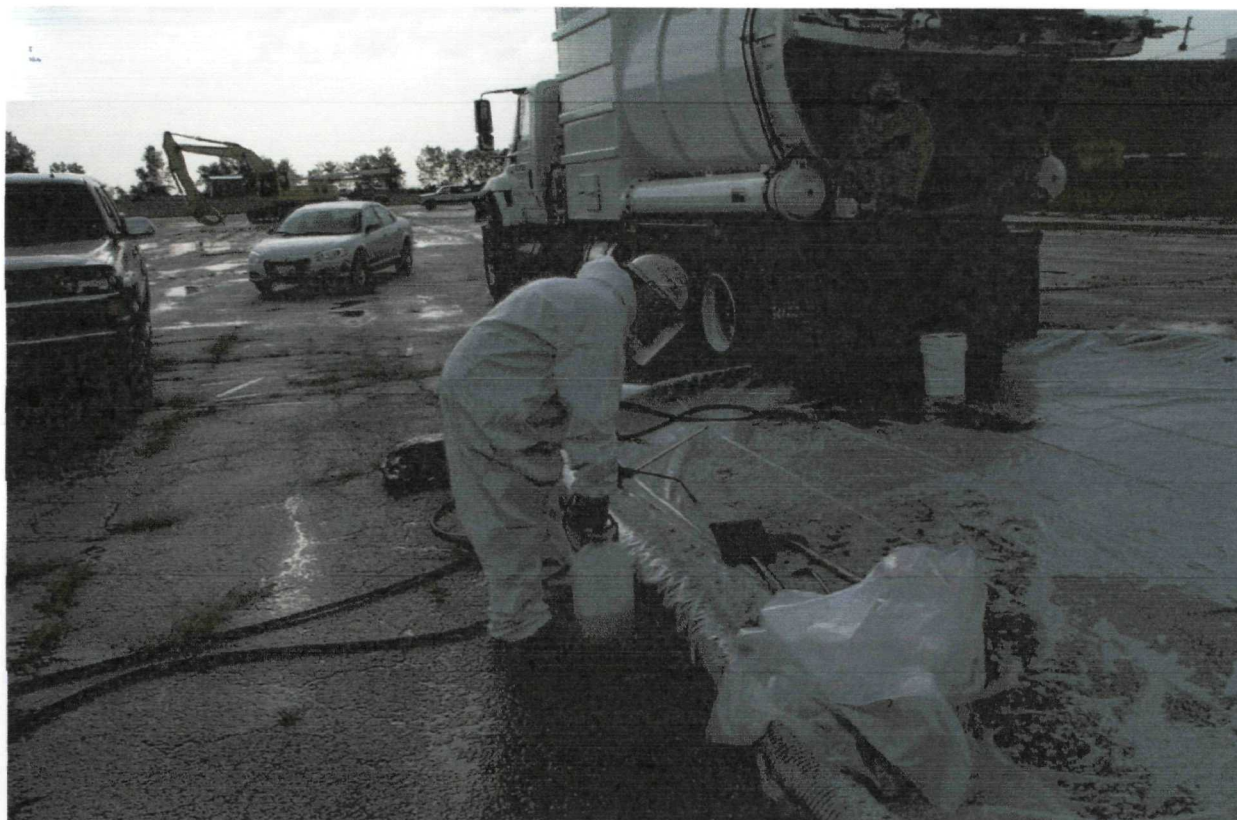
**TDD:** TDD No.: S05-0608-001

**Date:** August 23, 2006                      **Time:** 1426 hours

**Photographer:** Naren Babu      **Orientation:** Northwest

**Subject:** K plus mobilized a camera crew for video-filming of the sewer line. Since the camera was not equipped with flash lights and trolley, OSC abandoned the task of filming the sewer line.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 18**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

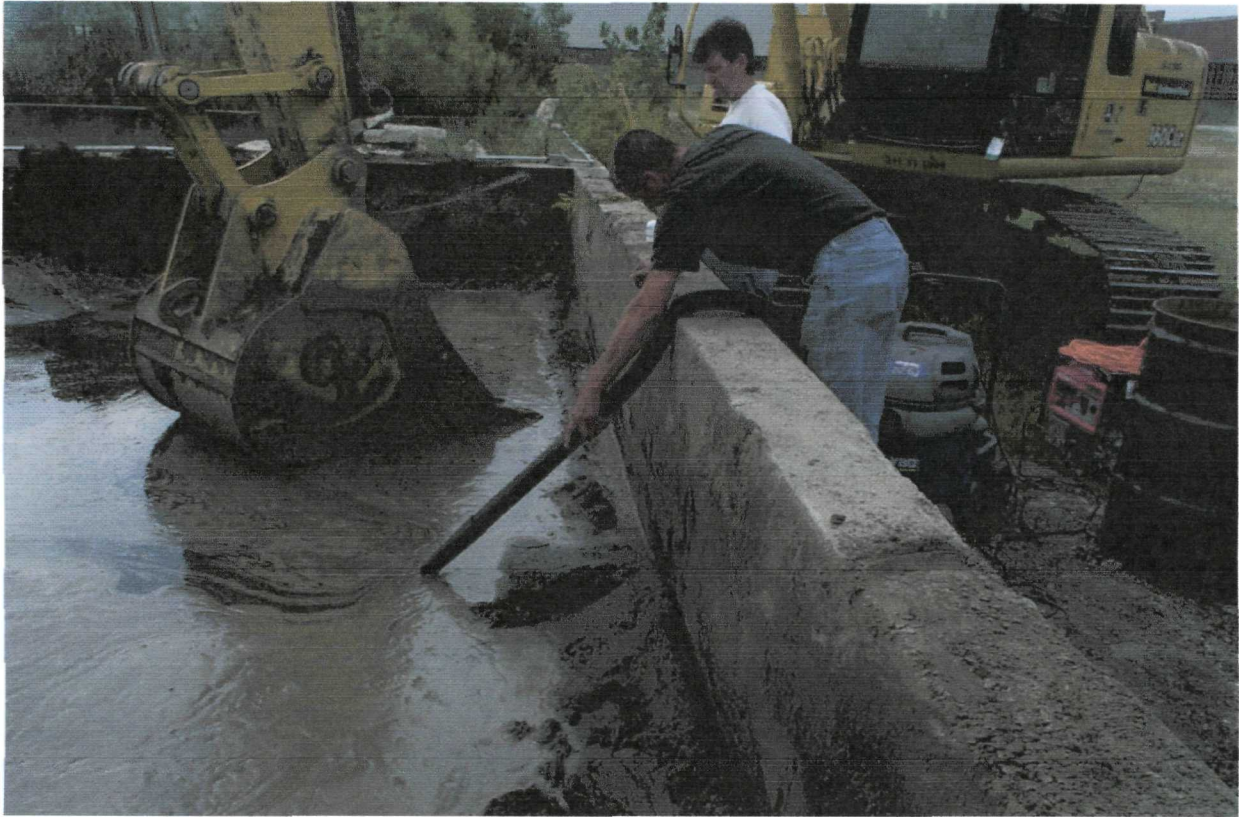
**TDD:** TDD No.: S05-0608-001

**Date:** August 24, 2006                      **Time:** 1059 hours

**Photographer:** Naren Babu    **Orientation:** East

**Subject:** Staging area for decon of sludge truck, vacuum truck, jet line and other equipments.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 19**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 25, 2006                      **Time:** 1336 hours

**Photographer:** Naren Babu      **Orientation:** South

**Subject:** EQM pumped rain water out from the sludge treatment area using a 2" hose pump to a 20 gallons filter drum and water was later treated using the treatment plant staged near the fract tanks.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team



**OFFICIAL PHOTOGRAPH No. 20**  
**U.S. ENVIRONMENTAL PROTECTION AGENCY**

**Location:** Former Outboard Marine Corp. (OMC) Facility  
Waukegan, Lake County, Illinois

**TDD:** TDD No.: S05-0608-001

**Date:** August 28, 2006                      Time: 1310 hours

**Photographer:** Naren Babu    **Orientation:** East

**Subject:** EQM shipped the sludge after mixing with sand and Portland cement to a landfill located in Zion, IL.

**Source:** STN Environmental JV – Superfund Technical Assessment & Response Team

**APPENDIX B**

**SAMPLE ANALYTICAL RESULTS**

(29 Pages)

31 July 2006

Lab ID: B607200

Aaron Roski  
EQM  
1800 Carillon Blvd.  
Cincinnati, OH 45240

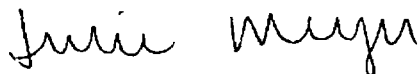
RE: OMC

Enclosed are the results of analyses for samples received by the laboratory on 07/20/06. The sample results relate only to the tested analytes of interest and to the sample as received by the laboratory. At the time of analysis, the laboratory was in compliance with current NELAP standards and held accreditation for all analyses performed unless noted by a qualifier. The laboratory's Illinois NELAP accreditation number is 100261.

This report can not be reproduced, except in full, without written approval from the laboratory. If you have any questions concerning this report, please feel free to contact Jim Knapp or Margaret Kniest.

Sincerely,

**TestAmerica Analytical Testing Corporation**



Julie Meyer  
Laboratory Director



Myra Kunas  
Quality Assurance Manager

EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B607200 Reported: 07/31/06 15:46
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### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Manhole 01	B607200-01	Waste (L)	07/19/06 13:00	07/20/06 13:45

### Sample Receipt Notes


Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.



EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B607200 Reported: 07/31/06 15:46
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - Buffalo Grove, IL**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Manhole 01 (B607200-01) Waste (L)    Sampled: 07/19/06 13:00    Received: 07/20/06 13:45</b>									
PCB-1016	ND	5.00	mg/kg	10	6070453	07/27/06	07/28/06	EPA 8082	
PCB-1221	ND	5.00	"	"	"	"	"	"	
PCB-1232	ND	5.00	"	"	"	"	"	"	
PCB-1242	ND	5.00	"	"	"	"	"	"	
<b>PCB-1248</b>	<b>22.1</b>	5.00	"	"	"	"	"	"	
PCB-1254	ND	5.00	"	"	"	"	"	"	
PCB-1260	ND	5.00	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		65.6 %		10-150	"	"	"	"	
Surrogate: Decachlorobiphenyl		29.2 %		10-150	"	"	"	"	

Reviewed & Approved by: 

Margaret Knies, Project Manager



EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B607200 Reported: 07/31/06 15:46
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**Polychlorinated Biphenyls by EPA Method 8082 - Quality Control**  
**TestAmerica - Buffalo Grove, IL**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6070453 - EPA 3580A (Dilution)**

**Blank (6070453-BLK1)**

Prepared: 07/27/06 Analyzed: 07/28/06

PCB-1016	ND	5.00	mg/kg							
PCB-1221	ND	5.00	"							
PCB-1232	ND	5.00	"							
PCB-1242	ND	5.00	"							
PCB-1248	ND	5.00	"							
PCB-1254	ND	5.00	"							
PCB-1260	ND	5.00	"							
Surrogate: Tetrachloro-meta-xylene	7.23		"	10.0		72.3	10-150			
Surrogate: Decachlorobiphenyl	6.77		"	10.0		67.7	10-150			

**LCS (6070453-BS1)**

Prepared: 07/27/06 Analyzed: 07/28/06

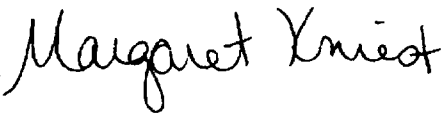
PCB-1016	18.4	5.00	mg/kg	25.0		73.6	25.5-150			
PCB-1260	17.1	5.00	"	25.0		68.4	23-150			
Surrogate: Tetrachloro-meta-xylene	8.08		"	10.0		80.8	10-150			
Surrogate: Decachlorobiphenyl	7.24		"	10.0		72.4	10-150			

**Duplicate (6070453-DUP1)**

Source: B607200-01

Prepared: 07/27/06 Analyzed: 07/28/06

PCB-1016	ND	5.00	mg/kg		ND					20
PCB-1221	ND	5.00	"		ND					20
PCB-1232	ND	5.00	"		ND					20
PCB-1242	ND	5.00	"		ND					20
PCB-1248	22.4	5.00	"		22.1			1.35		20
PCB-1254	ND	5.00	"		ND					20
PCB-1260	ND	5.00	"		ND					20
Surrogate: Tetrachloro-meta-xylene	5.31		"	9.71		54.7	10-150			
Surrogate: Decachlorobiphenyl	3.06		"	9.71		31.5	10-150			

Reviewed & Approved by: 

Margaret Kniest, Project Manager

EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B607200 Reported: 07/31/06 15:46
--	---	---

### Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
L	This quality control measurement is below the laboratory established limit.
H	This quality control measurement is above the laboratory established limit.
^	The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.
^^	The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Note: All samples are reported on a wet weight basis unless otherwise noted.

TestAmerica--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160  
TestAmerica--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261  
TestAmerica--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #1L001  
TestAmerica--Nashville, TN NELAP Secondary Accreditation: Illinois #200010  
TestAmerica--Dayton, OH NELAP Secondary Accreditation: Illinois #200008  
TestAmerica--Watertown, WI NELAP Primary Accreditation: Illinois #100453  
TestAmerica--Watertown, WI Wisconsin DNR Certification Lab ID: 128053530



TestAmerica - Buffalo Grove, IL

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Reviewed & Approved by: Margaret Kniest

Margaret Kniest, Project Manager

18 August 2006

Lab ID: B608182

Aaron Roski  
EQM  
1800 Carillon Blvd.  
Cincinnati, OH 45240

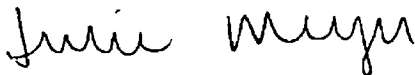
RE: OMC

Enclosed are the results of analyses for samples received by the laboratory on 08/17/06. The sample results relate only to the tested analytes of interest and to the sample as received by the laboratory. At the time of analysis, the laboratory was in compliance with current NELAP standards and held accreditation for all analyses performed unless noted by a qualifier. The laboratory's Illinois NELAP accreditation number is 100261.

This report can not be reproduced, except in full, without written approval from the laboratory. If you have any questions concerning this report, please feel free to contact Jim Knapp or Margaret Kniest.

Sincerely,

**TestAmerica Analytical Testing Corporation**



Julie Meyer  
Laboratory Director



Myra Kunas  
Quality Assurance Manager

EQM  
1800 Carillon Blvd.  
Cincinnati, OH 45240

Project: OMC  
Project Number: N/A  
Project Manager: Aaron Roski

Lab ID: B608182  
Reported: 08/18/06 11:54

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Wipe #4	B608182-01	Wipe	08/16/06 10:25	08/17/06 10:10
Treated Water #1	B608182-02	Water	08/17/06 08:40	08/17/06 10:10

### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.



EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B608182 Reported: 08/18/06 11:54
--	---	---


## Polychlorinated Biphenyls by EPA Method 8082

### TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Wipe #4 (B608182-01) Wipe</b>									QC
Sampled: 08/16/06 10:25 Received: 08/17/06 10:10									
PCB-1016	ND	0.420	ug/Wipe	10	6080326	08/17/06	08/17/06	EPA 8082	
PCB-1221	ND	0.420	"	"	"	"	"	"	
PCB-1232	ND	0.420	"	"	"	"	"	"	
PCB-1242	ND	0.420	"	"	"	"	"	"	
PCB-1248	ND	0.420	"	"	"	"	"	"	
PCB-1254	ND	0.420	"	"	"	"	"	"	
PCB-1260	ND	0.420	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		28.0 %		10-129	"	"	"	"	
Surrogate: Decachlorobiphenyl		24.8 %		10-150	"	"	"	"	
<b>Treated Water #1 (B608182-02) Water</b>									
Sampled: 08/17/06 08:40 Received: 08/17/06 10:10									
PCB-1016	ND	0.500	ug/l	10	6080325	08/17/06	08/17/06	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	ND	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		43.6 %		30-110	"	"	"	"	
Surrogate: Decachlorobiphenyl		39.8 %		20-110	"	"	"	"	

TestAmerica - Buffalo Grove, IL

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed & Approved by: 

Margaret Kniest, Project Manager

EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B608182 Reported: 08/18/06 11:54
--	---	---

**Polychlorinated Biphenyls by EPA Method 8082 - Quality Control**  
**TestAmerica - Buffalo Grove, IL**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6080325 - EPA 3510C**

**Blank (6080325-BLK1)**

Prepared & Analyzed: 08/17/06

PCB-1016	ND	0.500	ug/l							
PCB-1221	ND	0.500	"							
PCB-1232	ND	0.500	"							
PCB-1242	ND	0.500	"							
PCB-1248	ND	0.500	"							
PCB-1254	ND	0.500	"							
PCB-1260	ND	0.500	"							
Surrogate: Tetrachloro-meta-xylene	0.443		"	1.00		44.3	30-110			
Surrogate: Decachlorobiphenyl	0.526		"	1.00		52.6	20-110			

**LCS (6080325-BS1)**

Prepared & Analyzed: 08/17/06

PCB-1016	1.23	0.500	ug/l	2.50		49.2	11-111			
PCB-1260	1.24	0.500	"	2.50		49.6	30-110			
Surrogate: Tetrachloro-meta-xylene	0.399		"	1.00		39.9	30-110			
Surrogate: Decachlorobiphenyl	0.569		"	1.00		56.9	20-110			

**LCS Dup (6080325-BSD1)**

Prepared & Analyzed: 08/17/06


PCB-1016	1.34	0.500	ug/l	2.50		53.6	11-111	8.56	30	
PCB-1260	1.40	0.500	"	2.50		56.0	30-110	12.1	30	
Surrogate: Tetrachloro-meta-xylene	0.424		"	1.00		42.4	30-110			
Surrogate: Decachlorobiphenyl	0.669		"	1.00		66.9	20-110			

**Batch 6080326 - EPA 3550B**

**Blank (6080326-BLK1)**

Prepared & Analyzed: 08/17/06

PCB-1016	ND	0.500	ug/Wipe							
PCB-1221	ND	0.500	"							
PCB-1232	ND	0.500	"							
PCB-1242	ND	0.500	"							
PCB-1248	ND	0.500	"							
PCB-1254	ND	0.500	"							
PCB-1260	ND	0.500	"							
Surrogate: Tetrachloro-meta-xylene	0.617		"	1.00		61.7	10-129			
Surrogate: Decachlorobiphenyl	0.612		"	1.00		61.2	10-150			

Reviewed & Approved by: 

Margaret Kniest, Project Manager

EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B608182 Reported: 08/18/06 11:54
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**Polychlorinated Biphenyls by EPA Method 8082 - Quality Control**  
**TestAmerica - Buffalo Grove, IL**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6080326 - EPA 3550B**

LCS (6080326-BS1)										
Prepared & Analyzed: 08/17/06										
PCB-1016	1.59	0.500	ug/Wipe	2.50		63.6	21.2-110			
PCB-1260	1.63	0.500	"	2.50		65.2	24.8-128			
Surrogate: Tetrachloro-meta-xylene	0.554		"	1.00		55.4	10-129			
Surrogate: Decachlorobiphenyl	0.841		"	1.00		84.1	10-150			
LCS Dup (6080326-BSD1)										
Prepared & Analyzed: 08/17/06										
PCB-1016	3.65	0.500	ug/Wipe	2.50		146	21.2-110	78.6	35	HH
PCB-1260	3.88	0.500	"	2.50		155	24.8-128	81.7	35	HH
Surrogate: Tetrachloro-meta-xylene	0.964		"	1.00		96.4	10-129			
Surrogate: Decachlorobiphenyl	1.81		"	1.00		181	10-150			H

Reviewed & Approved by: Margaret Kniest  
Margaret Kniest, Project Manager

EQM  
1800 Carillon Blvd.  
Cincinnati, OH 45240

Project: OMC  
Project Number: N/A  
Project Manager: Aaron Roski

Lab ID: B608182  
Reported: 08/18/06 11:54

### Notes and Definitions

- QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- L This quality control measurement is below the laboratory established limit.
- H This quality control measurement is above the laboratory established limit.
- ^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.
- ^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Note: All samples are reported on a wet weight basis unless otherwise noted.

TestAmerica--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160  
TestAmerica--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261  
TestAmerica--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001  
TestAmerica--Nashville, TN NELAP Secondary Accreditation: Illinois #200010  
TestAmerica--Dayton, OH NELAP Secondary Accreditation: Illinois #200008  
TestAmerica--Watertown, WI NELAP Primary Accreditation: Illinois #100453  
TestAmerica--Watertown, WI Wisconsin DNR Certification Lab ID: 128053530



TestAmerica - Buffalo Grove, IL

Reviewed &  
Approved by:

*Margaret Kniest*

Margaret Kniest, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



28 August 2006

Lab ID: B608280

Aaron Roski  
EQM  
1800 Carillon Blvd.  
Cincinnati, OH 45240

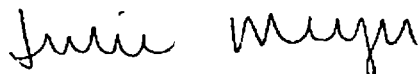
RE: OMC

Enclosed are the results of analyses for samples received by the laboratory on 08/24/06. The sample results relate only to the tested analytes of interest and to the sample as received by the laboratory. At the time of analysis, the laboratory was in compliance with current NELAP standards and held accreditation for all analyses performed unless noted by a qualifier. The laboratory's Illinois NELAP accreditation number is 100261.


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Sincerely,

**TestAmerica Analytical Testing Corporation**



Julie Meyer  
Laboratory Director



Myra Kunas  
Quality Assurance Manager

EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B608280 Reported: 08/28/06 09:01
--	---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Surface Grab	B608280-01	Soil	08/24/06 11:50	08/24/06 13:00

Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.


Reviewed & Approved by: Margaret Kniest  
Margaret Kniest, Project Manager

EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B608280 Reported: 08/28/06 09:01
--	---	---

**Polychlorinated Biphenyls by EPA Method 8082**

**TestAmerica - Buffalo Grove, IL**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Surface Grab (B608280-01) Soil</b> <b>Sampled: 08/24/06 11:50</b> <b>Received: 08/24/06 13:00</b> <b>QC</b>									
PCB-1016	ND	32.3	ug/kg dry	10	6080461	08/24/06	08/24/06	EPA 8082	
PCB-1221	ND	32.3	"	"	"	"	"	"	
PCB-1232	ND	32.3	"	"	"	"	"	"	
<b>PCB-1242</b>	<b>966</b>	162	"	50	"	"	08/25/06	"	
PCB-1248	ND	32.3	"	10	"	"	08/24/06	"	
PCB-1254	ND	32.3	"	"	"	"	"	"	
PCB-1260	ND	32.3	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		27.3 %		20-110	"	"	"	"	
Surrogate: Decachlorobiphenyl		34.3 %		20-110	"	"	"	"	

Reviewed & Approved by: 

Margaret Kniest, Project Manager

EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B608280 Reported: 08/28/06 09:01
--	---	---

**Percent Solids**

**TestAmerica - Buffalo Grove, IL**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Surface Grab (B608280-01) Soil</b> <b>Sampled: 08/24/06 11:50</b> <b>Received: 08/24/06 13:00</b>									
% Solids	77.3	0.200	%	1	6080472	08/25/06	08/25/06	EPA 5035 7.5	

TestAmerica - Buffalo Grove, IL

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Reviewed & Approved by: Margaret Kniest  
Margaret Kniest, Project Manager

EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B608280 Reported: 08/28/06 09:01
--	---	---

**Polychlorinated Biphenyls by EPA Method 8082 - Quality Control**  
**TestAmerica - Buffalo Grove, IL**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6080461 - EPA 3550B**

**Blank (6080461-BLK1)**

Prepared & Analyzed: 08/24/06

PCB-1016	ND	25.0	ug/kg wet							
PCB-1221	ND	25.0	"							
PCB-1232	ND	25.0	"							
PCB-1242	ND	25.0	"							
PCB-1248	ND	25.0	"							
PCB-1254	ND	25.0	"							
PCB-1260	ND	25.0	"							
Surrogate: Tetrachloro-meta-xylene	7.61		"	34.1		22.3	20-110			
Surrogate: Decachlorobiphenyl	11.9		"	34.1		34.9	20-110			

**LCS (6080461-BS1)**

Prepared & Analyzed: 08/24/06

PCB-1016	31.6	25.0	ug/kg wet	83.9		37.7	40-120			L
PCB-1260	32.6	25.0	"	83.9		38.9	30-130			
Surrogate: Tetrachloro-meta-xylene	10.1		"	33.5		30.1	20-110			
Surrogate: Decachlorobiphenyl	13.7		"	33.5		40.9	20-110			

**Matrix Spike (6080461-MS1)**

Source: B608223-22

Prepared: 08/24/06 Analyzed: 08/25/06


PCB-1016	884	427	ug/kg dry	129		685	20-115			H
PCB-1260	88.8	42.7	"	129		68.8	20-120			
Surrogate: Tetrachloro-meta-xylene	14.1		"	51.7		27.3	20-110			
Surrogate: Decachlorobiphenyl	25.7		"	51.7		49.7	20-110			

**Matrix Spike Dup (6080461-MSD1)**

Source: B608223-22

Prepared: 08/24/06 Analyzed: 08/25/06

PCB-1016	678	299	ug/kg dry	125		542	20-115	26.4	30	H
PCB-1260	60.9	29.9	"	125		48.7	20-120	37.3	30	H
Surrogate: Tetrachloro-meta-xylene	10.0		"	49.8		20.1	20-110			
Surrogate: Decachlorobiphenyl	16.0		"	49.8		32.1	20-110			

Reviewed & Approved by: 

Margaret Kniest, Project Manager

EQM  
1800 Carillon Blvd.  
Cincinnati, OH 45240

Project: OMC  
Project Number: N/A  
Project Manager: Aaron Roski

Lab ID: B608280  
Reported: 08/28/06 09:01

**Percent Solids - Quality Control**  
**TestAmerica - Buffalo Grove, IL**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6080472 - General Prep**

**Blank (6080472-BLK1)**

Prepared: 08/24/06 Analyzed: 08/25/06


% Solids ND 0.200 %

**Duplicate (6080472-DUP1)**

Source: B608231-02

Prepared: 08/24/06 Analyzed: 08/25/06

% Solids 79.9 0.200 % 83.1 3.93 20

Reviewed & Approved by: 

Margaret Kniest, Project Manager

EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B608280 Reported: 08/28/06 09:01
--	---	---

### Notes and Definitions

- QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- L This quality control measurement is below the laboratory established limit.
- H This quality control measurement is above the laboratory established limit.
- ^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.
- ^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Note: All samples are reported on a wet weight basis unless otherwise noted.

- TestAmerica--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160
- TestAmerica--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261
- TestAmerica--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #1L001
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- TestAmerica--Dayton, OH NELAP Secondary Accreditation: Illinois #200008
- TestAmerica--Watertown, WI NELAP Primary Accreditation: Illinois #100453
- TestAmerica--Watertown, WI Wisconsin DNR Certification Lab ID: 128053530



TestAmerica - Buffalo Grove, IL

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Reviewed & Approved by: Margaret Kniest

Margaret Kniest, Project Manager

28 August 2006

Lab ID: B608282

Aaron Roski  
EQM  
1800 Carillon Blvd.  
Cincinnati, OH 45240

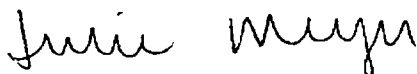
RE: OMC

Enclosed are the results of analyses for samples received by the laboratory on 08/24/06. The sample results relate only to the tested analytes of interest and to the sample as received by the laboratory. At the time of analysis, the laboratory was in compliance with current NELAP standards and held accreditation for all analyses performed unless noted by a qualifier. The laboratory's Illinois NELAP accreditation number is 100261.

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Sincerely,

**TestAmerica Analytical Testing Corporation**



Julie Meyer  
Laboratory Director



Myra Kunas  
Quality Assurance Manager



EQM  
1800 Carillon Blvd.  
Cincinnati, OH 45240

Project: OMC  
Project Number: N/A  
Project Manager: Aaron Roski

Lab ID: B608282  
Reported: 08/28/06 09:05

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Wipe #5 (Guzzler)	B608282-01	Wipe	08/24/06 14:40	08/24/06 16:00
Wipe #6 (Pickhead)	B608282-02	Wipe	08/24/06 14:40	08/24/06 16:00
Wipe #7 (Rod-Jet)	B608282-03	Wipe	08/24/06 14:40	08/24/06 16:00
Wipe #8 (Vaccum Tank)	B608282-04	Wipe	08/24/06 14:40	08/24/06 16:00

### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.




EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B608282 Reported: 08/28/06 09:05
--	---	---

## Polychlorinated Biphenyls by EPA Method 8082

### TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Wipe #5 (Guzzler) (B608282-01) Wipe</b> Sampled: 08/24/06 14:40 Received: 08/24/06 16:00									
PCB-1016	ND	0.500	ug/Wipe	10	6080478	08/24/06	08/25/06	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
<b>PCB-1242</b>	<b>1.64</b>	0.500	"	"	"	"	"	"	
PCB-1248	ND	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		33.5 %		10-129	"	"	"	"	
Surrogate: Decachlorobiphenyl		48.9 %		10-150	"	"	"	"	
<b>Wipe #6 (Pickhead) (B608282-02) Wipe</b> Sampled: 08/24/06 14:40 Received: 08/24/06 16:00									
PCB-1016	ND	0.420	ug/Wipe	10	6080478	08/24/06	08/25/06	EPA 8082	
PCB-1221	ND	0.420	"	"	"	"	"	"	
PCB-1232	ND	0.420	"	"	"	"	"	"	
PCB-1242	ND	0.420	"	"	"	"	"	"	
PCB-1248	ND	0.420	"	"	"	"	"	"	
PCB-1254	ND	0.420	"	"	"	"	"	"	
PCB-1260	ND	0.420	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		33.9 %		10-129	"	"	"	"	
Surrogate: Decachlorobiphenyl		46.1 %		10-150	"	"	"	"	
<b>Wipe #7 (Rod-Jet) (B608282-03) Wipe</b> Sampled: 08/24/06 14:40 Received: 08/24/06 16:00									
PCB-1016	ND	0.500	ug/Wipe	10	6080478	08/24/06	08/25/06	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	ND	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		37.2 %		10-129	"	"	"	"	
Surrogate: Decachlorobiphenyl		50.5 %		10-150	"	"	"	"	

Reviewed & Approved by: 

Margaret Kniest, Project Manager

EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B608282 Reported: 08/28/06 09:05
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - Buffalo Grove, IL**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Wipe #8 (Vaccum Tank) (B608282-04) Wipe</b> <b>Sampled: 08/24/06 14:40</b> <b>Received: 08/24/06 16:00</b> <b>O16</b>									
PCB-1016	ND	8.40	ug/Wipe	200	6080478	08/24/06	08/25/06	EPA 8082	
PCB-1221	ND	8.40	"	"	"	"	"	"	
PCB-1232	ND	8.40	"	"	"	"	"	"	
<b>PCB-1242</b>	<b>35.0</b>	8.40	"	"	"	"	"	"	
PCB-1248	ND	8.40	"	"	"	"	"	"	
PCB-1254	ND	8.40	"	"	"	"	"	"	
PCB-1260	ND	8.40	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		%		10-129	"	"	"	"	L
Surrogate: Decachlorobiphenyl		%		10-150	"	"	"	"	L

*Margaret Knies*

EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B608282 Reported: 08/28/06 09:05
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**Polychlorinated Biphenyls by EPA Method 8082 - Quality Control**  
**TestAmerica - Buffalo Grove, IL**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6080478 - EPA 3550B**

**Blank (6080478-BLK1)**

Prepared: 08/24/06 Analyzed: 08/25/06

PCB-1016	ND	0.500	ug/Wipe							
PCB-1221	ND	0.500	"							
PCB-1232	ND	0.500	"							
PCB-1242	ND	0.500	"							
PCB-1248	ND	0.500	"							
PCB-1254	ND	0.500	"							
PCB-1260	ND	0.500	"							
Surrogate: Tetrachloro-meta-xylene	0.408		"	1.00		40.8	10-129			
Surrogate: Decachlorobiphenyl	0.574		"	1.00		57.4	10-150			

**LCS (6080478-BS1)**


Prepared: 08/24/06 Analyzed: 08/25/06

PCB-1016	1.34	0.500	ug/Wipe	2.50		53.6	21.2-110			
PCB-1260	1.37	0.500	"	2.50		54.8	24.8-128			
Surrogate: Tetrachloro-meta-xylene	0.471		"	1.00		47.1	10-129			
Surrogate: Decachlorobiphenyl	0.629		"	1.00		62.9	10-150			

**LCS Dup (6080478-BSD1)**

Prepared: 08/24/06 Analyzed: 08/25/06

PCB-1016	1.66	0.500	ug/Wipe	2.50		66.4	21.2-110	21.3	35	
PCB-1260	1.93	0.500	"	2.50		77.2	24.8-128	33.9	35	
Surrogate: Tetrachloro-meta-xylene	0.500		"	1.00		50.0	10-129			
Surrogate: Decachlorobiphenyl	0.935		"	1.00		93.5	10-150			

Reviewed & Approved by: 

Margaret Kniest, Project Manager

EQM  
1800 Carillon Blvd.  
Cincinnati, OH 45240

Project: OMC  
Project Number: N/A  
Project Manager: Aaron Roski

Lab ID: B608282  
Reported: 08/28/06 09:05

### Notes and Definitions

- O16 The surrogate recoveries associated with this sample were outside the laboratory established control limits due to the dilution performed.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- L This quality control measurement is below the laboratory established limit.
- H This quality control measurement is above the laboratory established limit.
- ^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.
- ^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

Note: All analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

Note: All samples are reported on a wet weight basis unless otherwise noted.

TestAmerica--Buffalo Grove, IL Wisconsin DNR Certification Lab ID: 999917160

TestAmerica--Buffalo Grove, IL NELAP Primary Accreditation: Illinois #100261

TestAmerica--Buffalo Grove, IL NELAP Secondary Accreditation: New Jersey #IL001

TestAmerica--Nashville, TN NELAP Secondary Accreditation: Illinois #200010

TestAmerica--Dayton, OH NELAP Secondary Accreditation: Illinois #200008

TestAmerica--Watertown, WI NELAP Primary Accreditation: Illinois #100453

TestAmerica--Watertown, WI Wisconsin DNR Certification Lab ID: 128053530



TestAmerica - Buffalo Grove, IL

Reviewed &  
Approved by: Margaret Kniest

Margaret Kniest, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

29 August 2006

Lab ID: B608306

Aaron Roski  
EQM  
1800 Carillon Blvd.  
Cincinnati, OH 45240

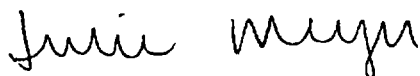
RE: OMC

Enclosed are the results of analyses for samples received by the laboratory on 08/28/06. The sample results relate only to the tested analytes of interest and to the sample as received by the laboratory. At the time of analysis, the laboratory was in compliance with current NELAP standards and held accreditation for all analyses performed unless noted by a qualifier. The laboratory's Illinois NELAP accreditation number is 100261.

This report can not be reproduced, except in full, without written approval from the laboratory. If you have any questions concerning this report, please feel free to contact Jim Knapp or Margaret Kniest.

Sincerely,

**TestAmerica Analytical Testing Corporation**



Julie Meyer  
Laboratory Director



Myra Kunas  
Quality Assurance Manager

EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B608306 Reported: 08/29/06 18:02
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### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WIPE #9	B608306-01	Wipe	08/28/06 09:30	08/28/06 11:30

### Sample Receipt Notes

Please note that the chain of custody (COC) included with this report is considered part of the report. The data user should review any comments or notes made on the COC. Any receipt issues found by the laboratory that are not noted on the COC will be stated below.

TestAmerica - Buffalo Grove, IL

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Reviewed &  
Approved by: 

Jim Knapp, Project Manager


EQM 1800 Carillon Blvd. Cincinnati, OH 45240	Project: OMC Project Number: N/A Project Manager: Aaron Roski	Lab ID: B608306 Reported: 08/29/06 18:02
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**Polychlorinated Biphenyls by EPA Method 8082**  
**TestAmerica - Buffalo Grove, IL**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>WIPE #9 (B608306-01) Wipe</b> <b>Sampled: 08/28/06 09:30</b> <b>Received: 08/28/06 11:30</b> <b>O14, QC</b>									
PCB-1016	ND	0.500	ug/Wipe	10	6080519	08/28/06	08/28/06	EPA 8082	
PCB-1221	ND	0.500	"	"	"	"	"	"	
PCB-1232	ND	0.500	"	"	"	"	"	"	
PCB-1242	ND	0.500	"	"	"	"	"	"	
PCB-1248	ND	0.500	"	"	"	"	"	"	
PCB-1254	ND	0.500	"	"	"	"	"	"	
PCB-1260	ND	0.500	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		%		10-129	"	"	"	"	L
Surrogate: Decachlorobiphenyl		%		10-150	"	"	"	"	L

TestAmerica - Buffalo Grove, IL

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Reviewed & Approved by: 

Jim Knapp, Project Manager



EQM  
1800 Carillon Blvd.  
Cincinnati, OH 45240

Project: OMC  
Project Number: N/A  
Project Manager: Aaron Roski

Lab ID: B608306  
Reported: 08/29/06 18:02

## Polychlorinated Biphenyls by EPA Method 8082 - Quality Control TestAmerica - Buffalo Grove, IL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 6080519 - EPA 3550B

#### Blank (6080519-BLK1)

Prepared & Analyzed: 08/28/06

PCB-1016	ND	0.500	ug/Wipe							
PCB-1221	ND	0.500	"							
PCB-1232	ND	0.500	"							
PCB-1242	ND	0.500	"							
PCB-1248	ND	0.500	"							
PCB-1254	ND	0.500	"							
PCB-1260	ND	0.500	"							
Surrogate: Tetrachloro-meta-xylene	0.217		"	1.00		21.7	10-129			
Surrogate: Decachlorobiphenyl	0.476		"	1.00		47.6	10-150			

#### LCS (6080519-BS1)

Prepared & Analyzed: 08/28/06

PCB-1016	0.354	0.0500	ug/Wipe	2.50		14.2	21.2-110			L
PCB-1260	0.622	0.500	"	2.50		24.9	24.8-128			
Surrogate: Tetrachloro-meta-xylene	0.112		"	1.00		11.2	10-129			
Surrogate: Decachlorobiphenyl	0.285		"	1.00		28.5	10-150			

#### LCS Dup (6080519-BSD1)

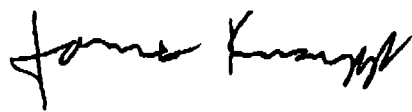
Prepared & Analyzed: 08/28/06

PCB-1016	1.22	0.500	ug/Wipe	2.50		48.8	21.2-110		35	
PCB-1260	1.35	0.500	"	2.50		54.0	24.8-128	73.8	35	H
Surrogate: Tetrachloro-meta-xylene	0.371		"	1.00		37.1	10-129			
Surrogate: Decachlorobiphenyl	0.571		"	1.00		57.1	10-150			

TestAmerica - Buffalo Grove, IL

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Reviewed &  
Approved by:



Jim Knapp, Project Manager

EQM  
1800 Carillon Blvd.  
Cincinnati, OH 45240

Project: OMC  
Project Number: N/A  
Project Manager: Aaron Roski

Lab ID: B608306  
Reported: 08/29/06 18:02

## Notes and Definitions

- QC The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
- O14 One or more surrogate recoveries were below the laboratory established control limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- L This quality control measurement is below the laboratory established limit.
- H This quality control measurement is above the laboratory established limit.
- ^ The laboratory is not NELAP accredited for this analyte by the indicated matrix and method.
- ^^ The State of Illinois Accrediting Authority does not offer NELAP accreditation for this analyte by the indicated matrix and method.

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TestAmerica--Watertown, WI NELAP Primary Accreditation: Illinois #100453  
TestAmerica--Watertown, WI Wisconsin DNR Certification Lab ID: 128053530



TestAmerica - Buffalo Grove, IL

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Reviewed &  
Approved by:

A handwritten signature in black ink, appearing to read "Jim Knapp".

Jim Knapp, Project Manager