

John:

This is the report
for the fuel oil tank
that was closed in 2000.

Lee Coughlin



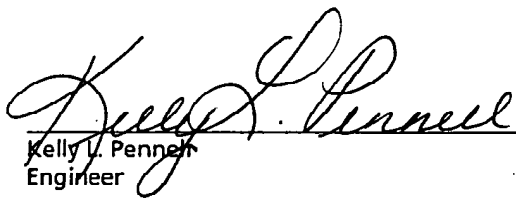
ARCADIS GERAGHTY & MILLER

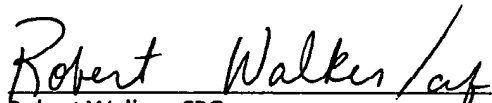
UST Closure Report
General Motors Corporation
Metal Fabricating Division
398 Division Street
Indianapolis, Indiana

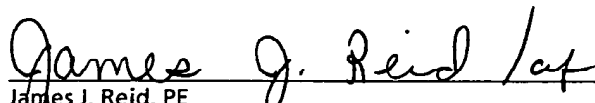
P R E P A R E D F O R

General Motors Corporation
WFG Remediation Team

ARCADIS GERAGHTY & MILLER


Kelly L. Pennell
Engineer


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Senior Geologist


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Associate/Principal Engineer

Closure Report
General Motors Corporation
Metal Fabricating Division
398 Division Street
Indianapolis, Indiana

Prepared for:
General Motors Corporation
WFG Remediation Team
1210 South 5th Street, Suite 2
Springfield, Illinois 62703

Prepared by:
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Our Ref:
IN000473.0005.0004

Date:
3 August 2000

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Closure Report

General Motors Corporation
Metal Fabricating Division
398 Division Street
Indianapolis, Indiana

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Closure Report

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Closure Report

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General Motors Corporation
Metal Fabricating Division
398 Division Street
Indianapolis, Indiana

Executive Summary

This report summarizes the closure of a 1,000-gallon former heating oil underground storage tank (UST) performed at the request of General Motors Corporation WFG Remediation Team by ARCADIS Geraghty & Miller. Closure activities were performed at the General Motors Corporation (GM) Metal Fabricating Division facility located at 398 Division Street, Indianapolis, Indiana on November 22, 1999. GM Metal Fabricating Division personnel completed backfill activities at a later date. Confirmatory soil samples obtained during closure activities indicate constituent levels were below the laboratory detection limits, which were in turn below the proposed Indiana Department of Environmental Management (IDEM) Risk Integrated System of Closure (RISC) Commercial/Industrial Levels.

Based on a review of the facility's records, IDEM's records and interviews with GM Metal Fabricating Division employees, the closure activities documented herein complete the removal of all USTs known to be present at 398 Division Street. Since GM's ownership of this property, it has only been used as office and storage space for the active GM Metal Fabricating Division facility located at 340 White River Parkway West Drive South. It should be noted that this closure report does not include an assessment of any tanks that currently or formerly existed at the active GM Metal Fabricating Division (340 White River Parkway West Drive South).

Closure Report

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General Motors Corporation
Metal Fabricating Division
398 Division Street
Indianapolis, Indiana

1. Introduction

This underground storage tank (UST) closure report has been prepared by ARCADIS Geraghty & Miller for General Motors Corporation (GM) WFG Remediation Team, Metal Fabricating Division, 398 Division Street, Indianapolis, Indiana (see Figure 1). The subject site was formerly used as office space by GM Metal Fabricating personnel, but is currently used as storage space for the active GM Metal Fabricating Division located at 340 White River Parkway West Drive South.

Nova Consultants performed UST removal activities on November 22, 1999. The purpose of this report is to provide closure assessment results for the removal activities of a 1,000-gallon UST formerly used for heating oil. This closure assessment has been prepared in accordance with the Indiana Department of Environmental Management (IDEM) Underground Storage Tank Guidance Manual (1995).

2. Responsible Party

2.1 Facility's Owner/Operator

General Motors Corporation
Metal Fabricating Division
340 White River Parkway West Drive South
Indianapolis, Indiana

2.2 Past Owners

GM purchased the subject site in 1983. Prior to GM's ownership of the facility, Ulrich Chemical, Inc. operated at the site. The site was purchased by Ulrich Realty, Inc. from Republic Steel Corp. in 1961.

Closure Report

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General Motors Corporation
Metal Fabricating Division
398 Division Street
Indianapolis, Indiana

3. Underground Storage Tank (UST) Contractor

3.1 UST Closure Contractors

Nova Environmental Consultants
(UST removal contractor)
24301 Catherine Industrial Road, Suite 124
Novi, Michigan 48375-2420
Telephone: (248) 347-3512

Knapp Environmental Contractors
(UST removal subcontractor)
12875 McKinley Highway
Mishawaka, Indiana 46545
Telephone: (219) 259-6327

ARCADIS Geraghty & Miller
(Environmental/engineering consultant)
251 East Ohio Street, Suite 800
Indianapolis, Indiana 46204
Telephone: (317) 231-6500

3.2 Office of the State Fire Marshal Certifications

Knapp Environmental Contractors
Douglas Knapp - President
OSFM #99-623339
IFC #1131529-25

4. Underground Storage Tank Site

4.1 Facility Name and Location

General Motors Corporation
Metal Fabricating Division
398 Division Street
Indianapolis, Indiana

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General Motors Corporation
Metal Fabricating Division
398 Division Street
Indianapolis, Indiana

The site location is illustrated on the USGS Indianapolis West, Indiana, 7 1/2-minute topographic quadrangle map (1980) in the northern section of Township 15 North, Range 3 East (Figure 1).

4.2 Past and Current Operation

Currently the site is inactive and is primarily used as a storage area. Formerly the site was used by GM Metal Fabricating Division as office space until December 1997 when the main building was razed. No production activities took place at the site while under GM's ownership. It is unknown what activities were performed at the site prior to 1983 while owned by Ulrich Realty and Republic Steel Corp.

4.3 Ground Cover

The majority of the ground cover at the site is concrete and gravel. However, the ground cover over the UST was concrete on the day of removal. As shown on Figure 2, a building previously existed directly north of the UST. This building was demolished in December 1997.

4.4 History of USTs

Based on records reviewed at IDEM's Leaking Underground Storage Tank (LUST) Division's file room, four USTs previously existed at the site. These tanks were installed in approximately 1954 and removed in 1986. Three of the tanks were 10,000-gallon capacity and stored gasoline, diesel fuel and 1,1,1-trichloroethane. The fourth tank was a 6,000-gallon capacity tank that stored gasoline. According to IDEM's files, no other USTs existed at the site.

The 1000-gallon UST that was removed on November 22, 1999 was not registered with IDEM because it was installed in the 1940s. The exact installation date of the UST is unknown; however, the facility's building plans confirm its presence as far back as 1940. At the time GM took ownership of the subject site (1983), the UST was not in service. Prior to 1983, the tank had been used for heating fuel. According to plant personnel, natural gas heat was installed at the site in the 1970s.

4.5 Proximity to Human and Environmentally Sensitive Areas

The site is located in a predominantly industrial area. However, White River State Park is located approximately one mile to the north. Aside from the park, the current

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General Motors Corporation
Metal Fabricating Division
398 Division Street
Indianapolis, Indiana

and active GM Metal Fabricating Division is located to the east, west and southeast of the site (340 White River Parkway West Drive South) and AM General Stamping Division is located to the southwest. The nearest surface water body is the White River located approximately one mile northeast of the site.

4.6 Site Geology and Hydrogeology

The subject property is located on glacial-outwash deposits within the Tipton Till Plain physiographic province of Indiana. This province is dominated by constructional glacial drift topography. Specifically, the subject property is located in the White River Valley floodplain, which is filled mostly with outwash sand and gravel deposits that are covered by modern alluvium. The unconsolidated deposits beneath the subject property are approximately 50 feet thick. The bedrock formations beneath the glacial-outwash in the area of the subject property consist primarily of Devonian limestone and dolomite of the Muscatatuck Group (Gray 1983). Based upon samples collected during UST closure activities, the uppermost sediments at the site consist primarily of a silty sand textured soil.

According to the USDA *Soil Survey of Marion County* (1978), the subject property is classified as Urban land-Genesee Complex. The soil is described primarily as deep, nearly level, well-drained soils typical of flood plains along the White River. In addition, some small areas of very poorly drained Sloan soils, somewhat poorly drained Shoals soils and moderately well drained Eel soils are also present.

A variety of aquifers are present in Marion County, ranging from those in the shale and limestone to various types of glacial-related sand and gravel deposits. The most productive wells are located in the water-bearing sand and gravel formations within the glacial drift and the outwash deposits of sand and gravel along the East Fork of the White River Valley. Production from wells in the area of the subject property are predominantly from shallow sand and gravel outwash aquifers that may produce over 500 gallons per minute (Herring 1974).

The topography of the site is relative flat with an elevation of approximately 700 feet above mean sea level. The topography of the site suggests the local groundwater-flows in a southeasterly direction towards the White River.

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General Motors Corporation
Metal Fabricating Division
398 Division Street
Indianapolis, Indiana

5. Underground Storage Tank Closure

5.1 Underground Storage Tank Information

One steel 1000-gallon UST formerly used for heating oil was removed on November 22, 1999. Specific information concerning the UST, including tank capacity, historical contents, construction material, and date of removal is provided in Table 1. The location of the UST is shown on Figure 2.

5.2 Underground Storage Tank Removal

UST removal activities were performed on November 22, 1999. On the day of removal the tank was visually inspected and appeared in good condition with no evidence of previous leaks. Disposal documentation for the UST is included in Appendix A.

6. Closure Assessment Sample Results

6.1 Soil Samples

In accordance with IDEM's UST Closure Guidelines (IDEM, 1995), soil samples were collected from the UST excavation in areas where impacts were most likely to exist. One soil sample was collected from each of the four UST excavation sidewalls. In addition, two soil samples were collected from the bottom of the UST excavation. Field sampling procedures and protocols are provided in Appendix B.

A summary of the analytical results for soil samples collected during UST closure activities is provided in Table 2. All sample analyses were conducted by PACE Analytical Services (Indianapolis, Indiana). Laboratory certificates of analysis, chain-of-custody forms, and quality assurance/quality control documentation are provided in Appendix C.

Soil samples collected from the sidewalls and from the bottom of the UST excavation were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl-tertiary-butyl ether (MTBE) using Method 8021, polyaromatic hydrocarbon compounds (PNAs) using Method 8270, and total petroleum hydrocarbons (TPH) using Method 8015 modified for diesel range organics (DRO). Based on the analytical results, none of the samples collected exceeded any of the proposed IDEM Risk

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General Motors Corporation
Metal Fabricating Division
398 Division Street
Indianapolis, Indiana

Integrated System of Closure (RISC) commercial/industrial level for the constituents analyzed.

6.2 Groundwater Samples

Groundwater was not encountered during the UST removal activities; therefore no groundwater samples were collected or analyzed.

7. Miscellaneous Closure Documentation

7.1 UST Liquids/Sludge Disposal Documentation

Prior to the UST removal, approximately 700 gallons of liquids were purged from the UST and staged in a temporary fractation tank at GM Allison Transmission Division located at 4500 West Gilman Avenue, Speedway, Indiana. The liquids were combined with compatible liquids produced during tank removal activities at GM Allison Transmission Division. Heritage Environmental (7901 West Morris Street, Indianapolis, Indiana) was contracted as the transport/disposal/recycling facility. The liquids from the Metal Fabricating UST were disposed of under Wastestream #1197-4. A total of 9,658 gallons of Wastestream #1197-4 (fuel blend) were removed from the Allison Transmission Division site for disposal/recycling. This total includes liquids from the Metal Fabricating UST and the UST removal activities at Allison Transmission Division. Liquid disposal documentation is provided in Appendix D.

After the UST had been purged of all liquids, the UST was removed from the ground and cut into transportable sizes, loaded on a truck and transported off-site for disposal. Disposal documentation is provided in Appendix A.

7.2 Spoil Disposal and Backfill

Overburden spoils removed to facilitate the removal of the UST were stored onsite in a roll-off box supplied by SK Services. Following the completion of the UST removal activities, plant personnel backfilled the excavation with gravel purchased from Martin Marietta of Indianapolis. Table 2 summarizes laboratory sample analysis of the spoils removed from around the tank. These analyses determined that no constituents (BTEX, MTBE, TPH-DRO, PAHs and polychlorinated biphenyls [PCBs]) were present above the laboratory detection limits. Laboratory certificates of analysis, chain-of-custody forms, and quality assurance/quality control documentation are provided in Appendix C.

Closure Report

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General Motors Corporation
Metal Fabricating Division
398 Division Street
Indianapolis, Indiana

SK Services was contracted as the transport/disposal facility for all excavated soils. Currently, GM is finalizing disposal protocols and the excavated soil is expected to be disposed of by SK Services in July 2000. Disposal documentation will be provided at a later date.

7.4 Photographic Documentation

Digital photographs were taken throughout the closure assessment to document the removal activities. Appendix E contains a copy of select photographs.

8. Conclusion

The closure activities of the 1000-gallon former fuel oil UST complete the removal activities at the GM Metal Fabricating Division located at 398 Division Street, Indianapolis, Indiana. Confirmatory soil samples obtained during closure activities indicate constituent levels were below proposed IDEM RISC Commercial/Industrial Levels.

9. References

- Gray, H.H., 1983. Map of Indiana Showing Thickness of Unconsolidated Deposits, Indiana Geological Survey, Miscellaneous. Map 38.
- Herring, William C. 1974. *Water Resources of Marion County with Emphasis on Ground-Water Availability*, Indiana Department of Natural Resources, Division of Water.
- Indiana Department of Environmental Management, The Underground Storage Tank Branch, Guidance Manual, 1995.
- U.S. Department of Agriculture, Soil Conservation Service, 1978. *Soil Survey of Marion County, Indiana*, 91pp.
- U.S. Geological Survey. 1980. Indianapolis - West, Indiana, Quadrangle, 7.5 Minute Series (Topographic Map).

Table 1. Summary of Removed UST Information
General Motors Corporation, Metal Fabricating Division
398 Division Street, Indianapolis, Indiana

Historical Contents	Tank/Sump Size	Tank Capacity (gallons)	Construction Material	Date of Removal
Fuel Oil	64 inches (dia) x 6 feet (length)	1000	Steel	11/22/99

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Table 2. Summary of Analytical Results from UST Removal Activities
General Motors Corporation, Metal Fabricating Division,
398 Division Street, Indianapolis, Indiana

Analyte	Sample ID: Metfab Btm 1 Sample Location: Bottom of Pit Date Collected: 11/22/99	Sample ID: Metfab Btm 2 Sample Location: Bottom of Pit Date Collected: 11/22/99	Sample ID: Metfab N Sample Location: North Sidewall Date Collected: 11/22/99	Sample ID: Metfab S Sample Location: South Sidewall Date Collected: 11/22/99	Sample ID: Metfab E Sample Location: East Sidewall Date Collected: 11/22/99
Benzene	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1
Xylenes m&p	<2	<2	<2	<2	<2
Xylenes o	<1	<1	<1	<1	<1
MTBE	<5	<5	<5	<5	<5
TPH DRO	<10	<10	<10	<10	<10
Naphthalene	<330	<330	<330	<330	<330
Acenaphthylene	<330	<330	<330	<330	<330
Acenaphthene	<330	<330	<330	<330	<330
Fluorene	<330	<330	<330	<330	<330
Phenanthrene	<330	<330	<330	<330	<330
Anthracene	<330	<330	<330	<330	<330
Fluoranthene	<330	<330	<330	<330	<330
Pyrene	<330	<330	<330	<330	<330
Benzo(a) anthracene	<330	<330	<330	<330	<330
Chrysene	<330	<330	<330	<330	<330
Benzo(b) Fluoranthene	<330	<330	<330	<330	<330
Benzo(k) Fluoranthene	<330	<330	<330	<330	<330
Benzo (a) pyrene	<330	<330	<330	<330	<330
Indeno (1,2,3-cd) pyrene	<330	<330	<330	<330	<330
Benzo (g,h,i) perylene	<330	<330	<330	<330	<330
Dibenz (a,h) anthracene	<330	<330	<330	<330	<330
PCB - 1016	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
PCB - 1221	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
PCB - 1232	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
PCB - 1242	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
PCB - 1248	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
PCB - 1254	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
PCB - 1260	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed

ND - Not Detected above the laboratory detection limit

PCB - Polychlorinated Biphenyls

TPH - Total Petroleum Hydrocarbons

DRO - Diesel Range Organics

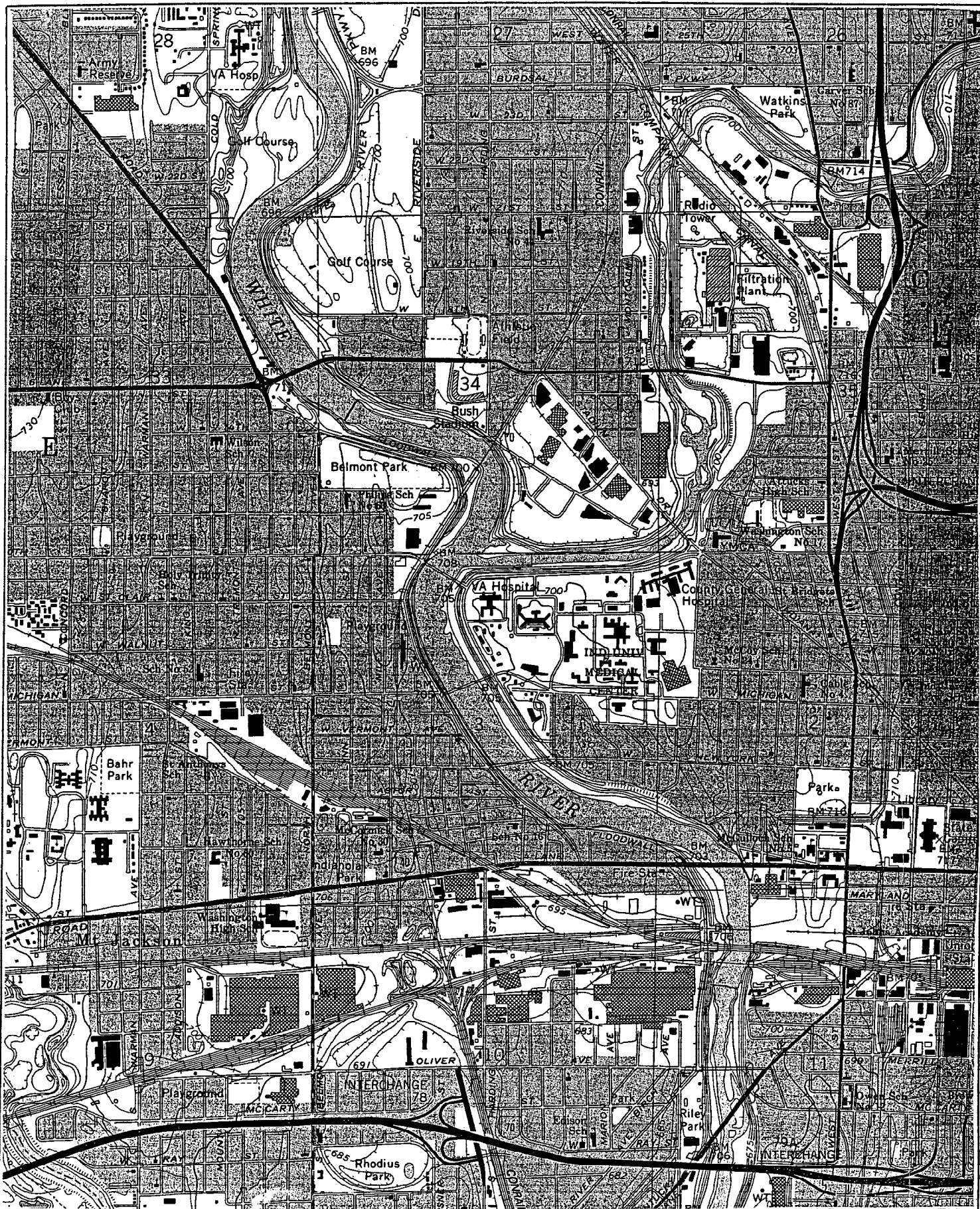
MTBE - Methyl Tertiary Butyl Ether

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Table 2. Summary of Analytical Results from UST Removal Activities (cont.)
General Motors Corporation, Metal Fabricating Division,
398 Division Street, Indianapolis, Indiana

Analyte	Sample ID: Metfab W Sample Location: West Sidewall Date Collected: 11/22/99	Sample ID: Metfab BD Sample Location: Dup. of Metfab S Date Collected: 11/22/99	Sample ID: Metfab Spoils Sample Location: Excavation Spoils Date Collected: 1/28/00
Benzene	<1	<1	Not Analyzed
Toluene	<1	<1	Not Analyzed
Ethylbenzene	<1	<1	Not Analyzed
Xylenes m&p	<2	<2	Not Analyzed
Xylenes o	<1	<1	Not Analyzed
MTBE	<5	<5	Not Analyzed
TPH DRO	<10	<10	Not Analyzed
Naphthalene	<330	<330	Not Analyzed
Acenaphthylene	<330	<330	Not Analyzed
Acenaphthene	<330	<330	Not Analyzed
Fluorene	<330	<330	Not Analyzed
Phenanthrene	<330	<330	Not Analyzed
Anthracene	<330	<330	Not Analyzed
Fluoranthene	<330	<330	Not Analyzed
Pyrene	<330	<330	Not Analyzed
Benzo(a) anthracene	<330	<330	Not Analyzed
Chrysene	<330	<330	Not Analyzed
Benzo(b) Fluoranthene	<330	<330	Not Analyzed
Benzo(k) Fluoranthene	<330	<330	Not Analyzed
Benzo(a) pyrene	<330	<330	Not Analyzed
Indeno (1,2,3-cd) pyrene	<330	<330	Not Analyzed
Benzo (g,h,i) perylene	<330	<330	Not Analyzed
Dibenz (a,h) anthracene	<330	<330	Not Analyzed
PCB - 1016	Not Analyzed	Not Analyzed	Not Analyzed
PCB - 1221	Not Analyzed	Not Analyzed	<330
PCB - 1232	Not Analyzed	Not Analyzed	<330
PCB - 1242	Not Analyzed	Not Analyzed	<330
PCB - 1248	Not Analyzed	Not Analyzed	<330
PCB - 1254	Not Analyzed	Not Analyzed	<330
PCB - 1260	Not Analyzed	Not Analyzed	<330

ND - Not Detected above the laboratory detection limit



USGS INDIANAPOLIS WEST, INDIANA - 7 1/2 MINUTE TOPOGRAPHIC QUADRANGLE MAP (1980)

ARCADIS GERAGHTY & MILLER



281 EAST OHIO STREET, SUITE 900
INDIANAPOLIS, IN 46204
Tel: 317/231-6300 Fax: 317/231-6314

SITE LOCATION MAP
GENERAL MOTORS
METAL FABRICATING DIVISION
398 DIVISION ST, INDIANAPOLIS, IN

PROJECT NUMBER
IN473
0005

FIGURE NUMBER
1

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Appendix A

UST Disposal Documentation

KNAPP
ENVIRONMENTAL
CONSTRUCTION
SERVICES
INC.

UNDERGROUND STORAGE TANK
DISPOSAL CERTIFICATE

Date: 12/20/99

TANK OWNER: ALLISON METAL FAB.
SITE ADDRESS: _____

INDIANAPOLIS, IN.

TANK DESCRIPTION:

<u>QTY</u>	<u>CAPACITY</u>	<u>CONSTRUCTION</u>
<u>1</u>	<u>1000 GAL</u>	<u>64" DIA. X 6' LONG</u>
_____	_____	_____
_____	_____	_____

CHECKLIST:

- ☒ Tank has been cleaned and all product, water, sludge or other residues have been removed.
- ☒ Tank has been vapor freed at site.
- ☒ Tank shell has been cut to allow for inspection by the disposal facility.

DISPOSAL FACILITY: CAPITAL CITY METALS
ADDRESS: 2200 W. OLIVER ST
INDIANAPOLIS, IN

NOTES:

1. The tank(s) delivered to this facility has been rendered into scrap for recycling.
2. The tank(s) have been cleaned and all free liquids or residues have been removed.
3. The tank(s) formerly contained petroleum products, which may be considered flammable or combustible. The tank was vapor freed prior to delivery to your facility. However, extreme caution should be exercised in the handling and disposal of the tank(s).
4. The tank shall not be reused to store petroleum products, chemical substances, or food/liquids intended for human or animal consumption.

Appendix B

Field Procedures and Protocol

UNDERGROUND STORAGE TANK CLOSURE FIELD PROCEDURES AND PROTOCOLS

Soil samples were obtained from representative locations in the UST excavation by utilizing the UST removal contractor's track-hoe excavator. The contractor was directed by ARCADIS Geraghty & Miller field personnel to retrieve a relatively large sample volume from designated areas in the UST excavation. ARCADIS Geraghty & Miller field personnel then collected soil samples by hand while wearing disposable latex gloves from portions of the sample which had not come in direct contact with the steel bucket. The gloves were changed between samples to avoid cross contamination.

Soil samples obtained from representative locations in the UST excavations were prepared for laboratory analyses. Each sample was placed into a 4-ounce glass jar, sealed, and immediately placed on ice for preservation. Each sample was labeled with the project name, identification code, sampling location and date, and was submitted to PACE Laboratories in Indianapolis, Indiana for analysis. A chain-of-custody form was completed for the samples to record the name of each individual who was in contact with each sample from the point of origin through the analysis. A copy of the form is included with the UST closure assessment laboratory results in Appendix C of this report.

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Appendix C

Laboratory Analytical Results

MODE = MEMORY TRANSMISSION

START=DEC-06 16:32

END=DEC-06 16:38

FILE NO. = 184

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Pace Analytical

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268

Tel: 317-875-5894
Fax: 317-872-6189

December 02, 1999

Mr. Rob Walker
Arcadis, Geraghty & Hiller
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

RE: Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Dear Mr. Walker:

Enclosed are the results of analyses for sample(s) received on November 22, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mary McGill-Maxwell
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

000027

Pace Analytical

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268

Tel: 317-875-5894

Fax: 317-872-6189

DATE: 12/02/99

PAGE: 1

Arcadis, Geraghty & Miller
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Attn: Mr. Rob Walker
Phone: 317-231-6500

Solid results are reported on a wet weight basis

Sample No:	50354463	Date Collected:	11/22/99	Matrix:	Soil
Client Sample ID:	METFAB 8TTM 1	Date Received:	11/22/99		

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
------------	---------	-------	-----	----------	---------	------	-----------

GC Volatiles

Aromatic Volatile Organics		Method: EPA 8021	Prep Method: EPA 8021
Benzene	ND	ug/kg 1	11/23/99 LMA 71-43-2
Ethylbenzene	ND	ug/kg 1	11/23/99 LMA 100-41-4
Toluene	ND	ug/kg 1	11/23/99 LMA 108-88-3
Methyl-tert-butyl Ether	ND	ug/kg 5	11/23/99 LMA 1634-04-4
M&P-Xylene	ND	ug/kg 2	11/23/99 LMA
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg 1	11/23/99 LMA 95-47-6
a,a,a-Trifluorotoluene (S)	241	%	11/23/99 LMA 2164-17-2 1

GC Semivolatiles

PH, Soil, Ext. by Mod. 8015		Method: EPA 8015 Mod Ext	Prep Method: EPA 8015 Mod Ext
Diesel Range Organics	ND	mg/kg 10	12/01/99 DLB
o-Terphenyl (S)	105	%	12/01/99 DLB 84-15-1
Date Extracted			11/29/99

GC/MS Semivolatiles

Polycyclic Aromatic Hydrocarbons		Method: EPA 8270	Prep Method: EPA 3550
Naphthalene	ND	ug/kg 330	12/01/99 DKS 91-20-3
Acenaphthylene	ND	ug/kg 330	12/01/99 DKS 208-96-8
Acenaphthene	ND	ug/kg 330	12/01/99 DKS 83-32-9
Fluorene	ND	ug/kg 330	12/01/99 DKS 86-73-7
Phenanthrene	ND	ug/kg 330	12/01/99 DKS 85-01-8
Anthracene	ND	ug/kg 330	12/01/99 DKS 120-12-7
Fluoranthene	ND	ug/kg 330	12/01/99 DKS 206-44-0
Pyrene	ND	ug/kg 330	12/01/99 DKS 129-00-0

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Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Pace Sample No: 50354463
Client Sample ID: METFAB BTM 1

Date Collected: 11/22/99
Date Received: 11/22/99
Matrix: Soil

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Benzo(a)anthracene	ND	ug/kg	330	12/01/99	DKS	56-55-3	
Chrysene	ND	ug/kg	330	12/01/99	DKS	218-01-9	
Benzo(b)fluoranthene	ND	ug/kg	330	12/01/99	DKS	205-99-2	
Benzo(k)fluoranthene	ND	ug/kg	330	12/01/99	DKS	207-08-9	
Benzo(a)pyrene	ND	ug/kg	330	12/01/99	DKS	50-32-8	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	330	12/01/99	DKS	193-39-5	
Benzo(g,h,i)perylene	ND	ug/kg	330	12/01/99	DKS	191-24-2	
Dibenz(a,h)anthracene	ND	ug/kg	330	12/01/99	DKS	53-70-3	
Nitrobenzene-d5 (S)	59	%		12/01/99	DKS	4165-60-0	
2-Fluorobiphenyl (S)	63	%		12/01/99	DKS	321-60-8	
Terphenyl-d14 (S)	62	%		12/01/99	DKS	1718-51-0	
Date Extracted				11/30/99			

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Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Pace Sample No: 50354471
Client Sample ID: METFAB BTM 2

Date Collected: 11/22/99
Date Received: 11/22/99

Matrix: Soil

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
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C Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Prep Method: EPA 8021

Benzene	ND	ug/kg	1	11/23/99	LMA	71-43-2	
Ethylbenzene	ND	ug/kg	1	11/23/99	LMA	100-41-4	
Toluene	ND	ug/kg	1	11/23/99	LMA	108-88-3	
Methyl-tert-butyl Ether	ND	ug/kg	5	11/23/99	LMA	1634-04-4	
M&P-Xylene	ND	ug/kg	2	11/23/99	LMA		
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	1	11/23/99	LMA	95-47-6	
a,a,a-Trifluorotoluene (S)	405	x		11/23/99	LMA	2164-17-2	1

C Semivolatiles

PH, Soil, Ext. by Mod. 8015

Method: EPA 8015 Mod Ext

Prep Method: EPA 8015 Mod Ext

Diesel Range Organics	ND	mg/kg	10	12/01/99	DLB		
o-Terphenyl (S)	104	x		12/01/99	DLB	84-15-1	
Date Extracted				11/29/99			

GC/MS Semivolatiles

Polycyclic Aromatic Hydrocarbons

Method: EPA 8270

Prep Method: EPA 3550

Naphthalene	ND	ug/kg	330	12/01/99	DKS	91-20-3	
Acenaphthylene	ND	ug/kg	330	12/01/99	DKS	208-96-8	
Acenaphthene	ND	ug/kg	330	12/01/99	DKS	83-32-9	
Fluorene	ND	ug/kg	330	12/01/99	DKS	86-73-7	
Phenanthrene	ND	ug/kg	330	12/01/99	DKS	85-01-8	
Anthracene	ND	ug/kg	330	12/01/99	DKS	120-12-7	
Fluoranthene	ND	ug/kg	330	12/01/99	DKS	206-44-0	
Pyrene	ND	ug/kg	330	12/01/99	DKS	129-00-0	
Benzo(a)anthracene	ND	ug/kg	330	12/01/99	DKS	56-55-3	
Benzofluoranthene	ND	ug/kg	330	12/01/99	DKS	218-01-9	
Benzo(k)fluoranthene	ND	ug/kg	330	12/01/99	DKS	205-99-2	
Benzo(a)pyrene	ND	ug/kg	330	12/01/99	DKS	207-08-9	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	330	12/01/99	DKS	50-32-8	
Benzo(g,h,i)perylene	ND	ug/kg	330	12/01/99	DKS	193-39-5	
Dibenz(a,h)anthracene	ND	ug/kg	330	12/01/99	DKS	191-24-2	
Benzo(b)fluoranthene	56	x		12/01/99	DKS	53-70-3	
Benzo(e)pyrene	62	x		12/01/99	DKS	4165-60-0	
Benzo(f)fluoranthene				12/01/99	DKS	321-60-8	

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Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Pace Sample No: 50354471
Client Sample ID: METFAB BTM 2

Date Collected: 11/22/99
Date Received: 11/22/99
Matrix: Soil

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Terphenyl-d14 (S)	61	%		12/01/99	DKS	1718-51-0	
Date Extracted				11/30/99			

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Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Pace Sample No: 50354489
Client Sample ID: METFAB N

Date Collected: 11/22/99
Date Received: 11/22/99
Matrix: Soil

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
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☐ Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Prep Method: EPA 8021

Benzene	ND	ug/kg	1	11/23/99	LMA	71-43-2	
Ethylbenzene	ND	ug/kg	1	11/23/99	LMA	100-41-4	
Toluene	ND	ug/kg	1	11/23/99	LMA	108-88-3	
Methyl-tert-butyl Ether	ND	ug/kg	5	11/23/99	LMA	1634-04-4	
M&P-Xylene	ND	ug/kg	2	11/23/99	LMA		
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	1	11/23/99	LMA	95-47-6	
a,a,a-Trifluorotoluene (S)	123	x		11/23/99	LMA	2164-17-2	

☐ Semivolatiles

TPH, Soil, Ext. by Mod. 8015

Method: EPA 8015 Mod Ext

Prep Method: EPA 8015 Mod Ext

Diesel Range Organics	ND	mg/kg	10	12/01/99	DLB		
o-Terphenyl (S)	108	x		12/01/99	DLB	84-15-1	
Date Extracted				11/29/99			

GC/MS Semivolatiles

Polycyclic Aromatic Hydrocarbons

Method: EPA 8270

Prep Method: EPA 3550

Naphthalene	ND	ug/kg	330	12/01/99	DKS	91-20-3	
Acenaphthylene	ND	ug/kg	330	12/01/99	DKS	208-96-8	
Acenaphthene	ND	ug/kg	330	12/01/99	DKS	83-32-9	
Fluorene	ND	ug/kg	330	12/01/99	DKS	86-73-7	
Phenanthrene	ND	ug/kg	330	12/01/99	DKS	85-01-8	
Anthracene	ND	ug/kg	330	12/01/99	DKS	120-12-7	
Fluoranthene	ND	ug/kg	330	12/01/99	DKS	206-44-0	
Pyrene	ND	ug/kg	330	12/01/99	DKS	129-00-0	
Benzo(a)anthracene	ND	ug/kg	330	12/01/99	DKS	56-55-3	
Chrysene	ND	ug/kg	330	12/01/99	DKS	218-01-9	
Benzo(b)fluoranthene	ND	ug/kg	330	12/01/99	DKS	205-99-2	
Benzo(k)fluoranthene	ND	ug/kg	330	12/01/99	DKS	207-08-9	
Benzo(a)pyrene	ND	ug/kg	330	12/01/99	DKS	50-32-8	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	330	12/01/99	DKS	193-39-5	
Benzo(g,h,i)perylene	ND	ug/kg	330	12/01/99	DKS	191-24-2	
Dibenz(a,h)anthracene	ND	ug/kg	330	12/01/99	DKS	53-70-3	
Nitrobenzene-d5 (S)	50	x		12/01/99	DKS	4165-60-0	
2-Fluorobiphenyl (S)	56	x		12/01/99	DKS	321-60-8	

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Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Pace Sample No: 50354489
Client Sample ID: METFAB N

Date Collected: 11/22/99
Date Received: 11/22/99
Matrix: Soil

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Terphenyl-d14 (S)	58	x		12/01/99	DKS	1718-51-0	
Date Extracted				11/30/99			

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Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Pace Sample No: 50354521
Client Sample ID: METFAB S

Date Collected: 11/22/99
Date Received: 11/22/99
Matrix: Soil

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
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GC Volatiles

Aromatic Volatile Organics		Method: EPA 8021		Prep Method: EPA 8021	
Benzene	ND	ug/kg	1	11/24/99	LMA 71-43-2
Ethylbenzene	ND	ug/kg	1	11/24/99	LMA 100-41-4
Toluene	ND	ug/kg	1	11/24/99	LMA 108-88-3
Methyl-tert-butyl Ether	ND	ug/kg	5	11/24/99	LMA 1634-04-4
M&P-Xylene	ND	ug/kg	2	11/24/99	LMA
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	1	11/24/99	LMA 95-47-6
a.a.a-Trifluorotoluene (S)	64	%		11/24/99	LMA 2164-17-2

GC Semivolatiles

TPH, Soil, Ext. by Mod. 8015		Method: EPA 8015 Mod Ext		Prep Method: EPA 8015 Mod Ext	
Diesel Range Organics	ND	mg/kg	10	12/01/99	DLB
o-Terphenyl (S)	125	%		12/01/99	DLB 84-15-1
Date Extracted				11/29/99	

GC/MS Semivolatiles

Polycyclic Aromatic Hydrocarbons		Method: EPA 8270		Prep Method: EPA 3550	
Naphthalene	ND	ug/kg	330	12/01/99	DKS 91-20-3
Acenaphthylene	ND	ug/kg	330	12/01/99	DKS 208-96-8
Acenaphthene	ND	ug/kg	330	12/01/99	DKS 83-32-9
Fluorene	ND	ug/kg	330	12/01/99	DKS 86-73-7
Phenanthrene	ND	ug/kg	330	12/01/99	DKS 85-01-8
Anthracene	ND	ug/kg	330	12/01/99	DKS 120-12-7
Fluoranthene	ND	ug/kg	330	12/01/99	DKS 206-44-0
Pyrene	ND	ug/kg	330	12/01/99	DKS 129-00-0
Benzo(a)anthracene	ND	ug/kg	330	12/01/99	DKS 56-55-3
Chrysene	ND	ug/kg	330	12/01/99	DKS 218-01-9
Benzo(b)fluoranthene	ND	ug/kg	330	12/01/99	DKS 205-99-2
Benzo(k)fluoranthene	ND	ug/kg	330	12/01/99	DKS 207-08-9
Benzo(a)pyrene	ND	ug/kg	330	12/01/99	DKS 50-32-8
Indeno(1,2,3-cd)pyrene	ND	ug/kg	330	12/01/99	DKS 193-39-5
Benzo(g,h,i)perylene	ND	ug/kg	330	12/01/99	DKS 191-24-2
Dibenz(a,h)anthracene	ND	ug/kg	330	12/01/99	DKS 53-70-3
Nitrobenzene-d5 (S)	53	%		12/01/99	DKS 4165-60-0
2-Fluorobiphenyl (S)	59	%		12/01/99	DKS 321-60-8

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Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Pace Sample No: 50354521
Client Sample ID: METFAB S

Date Collected: 11/22/99
Date Received: 11/22/99

Matrix: Soil

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Terphenyl-d14 (S)	59	%		12/01/99	DKS	1718-51-0	
Date Extracted				11/30/99			

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Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Pace Sample No: 50354539 Date Collected: 11/22/99 Matrix: Soil
Client Sample ID: METFAB E Date Received: 11/22/99

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
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C Volatiles

Aromatic Volatile Organics	Method: EPA 8021	Prep Method: EPA 8021
Benzene	ND ug/kg 1	11/24/99 LMA 71-43-2
Ethylbenzene	ND ug/kg 1	11/24/99 LMA 100-41-4
Toluene	ND ug/kg 1	11/24/99 LMA 108-88-3
Methyl-tert-butyl Ether	ND ug/kg 5	11/24/99 LMA 1634-04-4
M&P-Xylene	ND ug/kg 2	11/24/99 LMA
O-Xylene (1,2-Dimethylbenzene)	ND ug/kg 1	11/24/99 LMA 95-47-6
a.a.a-Trifluorotoluene (S)	118 %	11/24/99 LMA 2164-17-2

Semivolatiles

TPH, Soil, Ext. by Mod. 8015	Method: EPA 8015 Mod Ext	Prep Method: EPA 8015 Mod Ext
Diesel Range Organics	ND mg/kg 10	12/01/99 DLB
o-Terphenyl (S)	119 %	12/01/99 DLB 84-15-1
Date Extracted		11/29/99

GC/MS Semivolatiles

Polycyclic Aromatic Hydrocarbons	Method: EPA 8270	Prep Method: EPA 3550
Naphthalene	ND ug/kg 330	12/01/99 DKS 91-20-3
Acenaphthylene	ND ug/kg 330	12/01/99 DKS 208-96-8
Acenaphthene	ND ug/kg 330	12/01/99 DKS 83-32-9
Fluorene	ND ug/kg 330	12/01/99 DKS 86-73-7
Phenanthrene	ND ug/kg 330	12/01/99 DKS 85-01-8
Anthracene	ND ug/kg 330	12/01/99 DKS 120-12-7
Fluoranthene	ND ug/kg 330	12/01/99 DKS 206-44-0
Pyrene	ND ug/kg 330	12/01/99 DKS 129-00-0
Benzo(a)anthracene	ND ug/kg 330	12/01/99 DKS 56-55-3
Chrysene	ND ug/kg 330	12/01/99 DKS 218-01-9
Benzo(b)fluoranthene	ND ug/kg 330	12/01/99 DKS 205-99-2
Benzo(k)fluoranthene	ND ug/kg 330	12/01/99 DKS 207-08-9
Benzo(a)pyrene	ND ug/kg 330	12/01/99 DKS 50-32-8
Indeno(1,2,3-cd)pyrene	ND ug/kg 330	12/01/99 DKS 193-39-5
Benzo(g,h,i)perylene	ND ug/kg 330	12/01/99 DKS 191-24-2
Dibenz(a,h)anthracene	ND ug/kg 330	12/01/99 DKS 53-70-3
Nitrobenzene-d5 (S)	55 %	12/01/99 DKS 4165-60-0
2-Fluorobiphenyl (S)	60 %	12/01/99 DKS 321-60-8

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Pace Project Number: 506920

Client Project ID: GM Metal FAB Division

Pace Sample No: 50354539
Client Sample ID: METFAB E

Date Collected: 11/22/99
Date Received: 11/22/99

Matrix: Soil

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Terphenyl-d14 (S)	60	%		12/01/99	DKS	1718-51-0	
Date Extracted				11/30/99			

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Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Pace Sample No: 50354547
Client Sample ID: METFAB W

Date Collected: 11/22/99
Date Received: 11/22/99
Matrix: Soil

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Prep Method: EPA 8021

Benzene	ND	ug/kg	1	11/24/99	LMA	71-43-2	
Ethylbenzene	ND	ug/kg	1	11/24/99	LMA	100-41-4	
Toluene	ND	ug/kg	1	11/24/99	LMA	108-88-3	
Methyl-tert-butyl Ether	ND	ug/kg	5	11/24/99	LMA	1634-04-4	
M&P-Xylene	ND	ug/kg	2	11/24/99	LMA		
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	1	11/24/99	LMA	95-47-6	
a,a,a-Trifluorotoluene (S)	144	%		11/24/99	LMA	2164-17-2	2

GC Semivolatiles

TPH, Soil, Ext. by Mod. 8015

Method: EPA 8015 Mod Ext

Prep Method: EPA 8015 Mod Ext

Diesel Range Organics	ND	mg/kg	10	12/01/99	DLB		
o-Terphenyl (S)	109	%		12/01/99	DLB	84-15-1	
Date Extracted				11/29/99			

GC/MS Semivolatiles

Polycyclic Aromatic Hydrocarbons

Method: EPA 8270

Prep Method: EPA 3550

Naphthalene	ND	ug/kg	330	12/01/99	DKS	91-20-3	
Acenaphthylene	ND	ug/kg	330	12/01/99	DKS	208-96-8	
Acenaphthene	ND	ug/kg	330	12/01/99	DKS	83-32-9	
Fluorene	ND	ug/kg	330	12/01/99	DKS	86-73-7	
Phenanthrene	ND	ug/kg	330	12/01/99	DKS	85-01-8	
Anthracene	ND	ug/kg	330	12/01/99	DKS	120-12-7	
Fluoranthene	ND	ug/kg	330	12/01/99	DKS	206-44-0	
Pyrene	ND	ug/kg	330	12/01/99	DKS	129-00-0	
Benzo(a)anthracene	ND	ug/kg	330	12/01/99	DKS	56-55-3	
Chrysene	ND	ug/kg	330	12/01/99	DKS	218-01-9	
Benzo(b)fluoranthene	ND	ug/kg	330	12/01/99	DKS	205-99-2	
Benzo(k)fluoranthene	ND	ug/kg	330	12/01/99	DKS	207-08-9	
Benzo(a)pyrene	ND	ug/kg	330	12/01/99	DKS	50-32-8	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	330	12/01/99	DKS	193-39-5	
Benzo(g,h,i)perylene	ND	ug/kg	330	12/01/99	DKS	191-24-2	
Dibenz(a,h)anthracene	ND	ug/kg	330	12/01/99	DKS	53-70-3	
Nitrobenzene-d5 (S)	56	%		12/01/99	DKS	4165-60-0	
2,2'-Fluorobiphenyl (S)	62	%		12/01/99	DKS	321-60-8	

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Pace Project Number: 506920

Client Project ID: GM Metal FAB Division

Pace Sample No: 50354547
Client Sample ID: METFAB W

Date Collected: 11/22/99

Matrix: Soil

Date Received: 11/22/99

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Terphenyl-d14 (S)	65	%		12/01/99	DKS	1718-51-0	
Date Extracted				11/30/99			

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Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Pace Sample No: 50354570
Client Sample ID: METFAB BD

Date Collected: 11/22/99
Date Received: 11/22/99
Matrix: Soil

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
------------	---------	-------	-----	----------	---------	------	-----------

C Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Prep Method: EPA 8021

Benzene	ND	ug/kg	1	11/24/99	LMA	71-43-2	
Ethylbenzene	ND	ug/kg	1	11/24/99	LMA	100-41-4	
Toluene	ND	ug/kg	1	11/24/99	LMA	108-88-3	
Methyl-tert-butyl Ether	ND	ug/kg	5	11/24/99	LMA	1634-04-4	
M&P-Xylene	ND	ug/kg	2	11/24/99	LMA		
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	1	11/24/99	LMA	95-47-6	
a.a.a-Trifluorotoluene (S)	132	x		11/24/99	LMA	2164-17-2	2

-- Semivolatiles

TPH, Soil, Ext. by Mod. 8015

Method: EPA 8015 Mod Ext

Prep Method: EPA 8015 Mod Ext

Diesel Range Organics

ND

mg/kg

10

12/02/99

DLB

o-Terphenyl (S)

117

x

12/02/99

DLB

84-15-1

Date Extracted

11/29/99

GC/MS Semivolatiles

Polycyclic Aromatic Hydrocarbons

Method: EPA 8270

Prep Method: EPA 3550

Naphthalene	ND	ug/kg	330	12/01/99	DKS	91-20-3	
Acenaphthylene	ND	ug/kg	330	12/01/99	DKS	208-96-8	
Acenaphthene	ND	ug/kg	330	12/01/99	DKS	83-32-9	
Fluorene	ND	ug/kg	330	12/01/99	DKS	86-73-7	
Phenanthrene	ND	ug/kg	330	12/01/99	DKS	85-01-8	
Anthracene	ND	ug/kg	330	12/01/99	DKS	120-12-7	
Fluoranthene	ND	ug/kg	330	12/01/99	DKS	206-44-0	
Pyrene	ND	ug/kg	330	12/01/99	DKS	129-00-0	
Benzo(a)anthracene	ND	ug/kg	330	12/01/99	DKS	56-55-3	
Chrysene	ND	ug/kg	330	12/01/99	DKS	218-01-9	
Benzo(b)fluoranthene	ND	ug/kg	330	12/01/99	DKS	205-99-2	
Benzo(k)fluoranthene	ND	ug/kg	330	12/01/99	DKS	207-08-9	
Benzo(a)pyrene	ND	ug/kg	330	12/01/99	DKS	50-32-8	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	330	12/01/99	DKS	193-39-5	
Benzo(g,h,i)perylene	ND	ug/kg	330	12/01/99	DKS	191-24-2	
Dibenz(a,h)anthracene	ND	ug/kg	330	12/01/99	DKS	53-70-3	
Nitrobenzene-d5 (S)	92	x		12/01/99	DKS	4165-60-0	
2-Fluorobiphenyl (S)	97	x		12/01/99	DKS	321-60-8	

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Fax: 317-872-6189

DATE: 12/02/99

PAGE: 14

Pace Project Number: 506920

Client Project ID: GM Metal FAB Division

Pace Sample No: 50354570
Client Sample ID: METFAB BD

Date Collected: 11/22/99
Date Received: 11/22/99

Matrix: Soil

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Terphenyl-d14 (S) Date Extracted	99	%		12/01/99 11/30/99	DKS	1718-51-0	

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DATE: 12/02/99

PAGE: 15

Pace Project Number: 506920

Client Project ID: GM Metal FAB Division

Pace Sample No: 50354588 Date Collected: 11/22/99 Matrix: Soil
Client Sample ID: METFAB SPOILS Date Received: 11/22/99

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
------------	---------	-------	-----	----------	---------	------	-----------

GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Prep Method: EPA 8021

Benzene	ND	ug/kg	1	11/24/99	LMA	71-43-2	
Ethylbenzene	ND	ug/kg	1	11/24/99	LMA	100-41-4	
Toluene	ND	ug/kg	1	11/24/99	LMA	108-88-3	
Methyl-tert-butyl Ether	ND	ug/kg	5	11/24/99	LMA	1634-04-4	
M&P-Xylene	ND	ug/kg	2	11/24/99	LMA		
O-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	1	11/24/99	LMA	95-47-6	
a.a.a-Trifluorotoluene (S)	403	%		11/24/99	LMA	2164-17-2	3

GC Semivolatiles

TPH, Soil, Ext. by Mod. 8015

Method: EPA 8015 Mod Ext

Prep Method: EPA 8015 Mod Ext

Diesel Range Organics	ND	mg/kg	10	12/01/99	DLB		
o-Terphenyl (S)	107	%		12/01/99	DLB	84-15-1	
Date Extracted				11/29/99			

GC/MS Semivolatiles

Polycyclic Aromatic Hydrocarbons

Method: EPA 8270

Prep Method: EPA 3550

Naphthalene	ND	ug/kg	330	12/01/99	DKS	91-20-3	
Acenaphthylene	ND	ug/kg	330	12/01/99	DKS	208-96-8	
Acenaphthene	ND	ug/kg	330	12/01/99	DKS	83-32-9	
Fluorene	ND	ug/kg	330	12/01/99	DKS	86-73-7	
Phenanthrene	ND	ug/kg	330	12/01/99	DKS	85-01-8	
Anthracene	ND	ug/kg	330	12/01/99	DKS	120-12-7	
Fluoranthene	ND	ug/kg	330	12/01/99	DKS	206-44-0	
Pyrene	ND	ug/kg	330	12/01/99	DKS	129-00-0	
Benzo(a)anthracene	ND	ug/kg	330	12/01/99	DKS	56-55-3	
Chrysene	ND	ug/kg	330	12/01/99	DKS	218-01-9	
Benzo(b)fluoranthene	ND	ug/kg	330	12/01/99	DKS	205-99-2	
Benzo(k)fluoranthene	ND	ug/kg	330	12/01/99	DKS	207-08-9	
Benzo(a)pyrene	ND	ug/kg	330	12/01/99	DKS	50-32-8	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	330	12/01/99	DKS	193-39-5	
Benzo(g,h,i)perylene	ND	ug/kg	330	12/01/99	DKS	191-24-2	
Dibenz(a,h)anthracene	ND	ug/kg	330	12/01/99	DKS	53-70-3	
Nitrobenzene-d5 (S)	89	%		12/01/99	DKS	4165-60-0	
2-Fluorobiphenyl (S)	92	%		12/01/99	DKS	321-60-8	

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Fax: 317-872-6189

DATE: 12/02/99
PAGE: 16

Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Pace Sample No: 50354588
Client Sample ID: METFAB SPOILS
Date Collected: 11/22/99
Date Received: 11/22/99
Matrix: Soil

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Terphenyl-d14 (S) Date Extracted	94	%		12/01/99 11/30/99	DKS	1718-51-0	

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DATE: 12/02/99

PAGE: 17

Pace Project Number: 506920

Client Project ID: GM Metal FAB Division

PARAMETER FOOTNOTES

VD	Not Detected
VC	Not Calculable
PRL	Pace Reporting Limit
(S)	Surrogate
[1]	High surrogate was confirmed by second analysis. 11/24/99 LMA
[2]	High surrogate was confirmed by second analysis. 11/29/99 LMA
[3]	High surrogate was confirmed by second analysis. 11/29/99 LM

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QUALITY CONTROL DATA

DATE: 12/02/99

PAGE: 18

Arcadis, Geraghty & Miller
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Attn: Mr. Rob Walker
Phone: 317-231-6500

QC Batch ID: 9251

QC Batch Method: EPA 8021

Analysis Method: EPA 8021

Analysis Description: Aromatic Volatile Organics

Associated Pace Samples:

50354463

50354471

50354489

METHOD BLANK: 50357805

Associated Pace Samples:

50354463

50354471

50354489

Parameter	Units	Method Blank Result	PRL	Footnotes
Benzene	ug/kg	ND	1	
Ethylbenzene	ug/kg	ND	1	
Toluene	ug/kg	ND	1	
Methyl-tert-butyl Ether	ug/kg	ND	5	
m,p-Xylene	ug/kg	ND	2	
o-Xylene (1,2-Dimethylbenzene)	ug/kg	ND	1	
1,2,4-Trifluorotoluene (S)	%	59		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50357821 50357839

Parameter	Units	50350271	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Benzene	ug/kg	0	20	14.44	72.2	14.47	72.4	0	1
Ethylbenzene	ug/kg	9.271	20	24.16	74.4	24.80	77.6	4	
Toluene	ug/kg	2.755	20	17.16	72.0	18.48	78.6	9	
m,p-Xylene	ug/kg	23.95	40	43.37	48.6	41.36	43.5	11	
o-Xylene (1,2-Dimethylbenzene)	ug/kg	142.9	20	262.4	598	216.8	370	47	
1,2,4-Trifluorotoluene (S)					42		55		

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QUALITY CONTROL DATA

DATE: 12/02/99
PAGE: 19

Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

LABORATORY CONTROL SAMPLE: 50357813

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
benzene	ug/kg	20	22.26	111	
Ethylbenzene	ug/kg	20	18.62	93.1	
toluene	ug/kg	20	19.55	97.8	
m,p-Xylene	ug/kg	40	39.41	98.5	
O-Xylene (1,2-Dimethylbenzene)	ug/kg	20	19.41	97.1	
m,p,p'-Trifluorotoluene (S)				59	

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QUALITY CONTROL DATA

DATE: 12/02/99
PAGE: 20

Arcadis, Geraghty & Miller
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Attn: Mr. Rob Walker
Phone: 317-231-6500

QC Batch ID: 9290

QC Batch Method: EPA 8021

Analysis Method: EPA 8021

Analysis Description: Aromatic Volatile Organics

Associated Pace Samples: 50354521 50354539 50354547 50354570 50354588

METHOD BLANK: 50360213

Associated Pace Samples:

50354521 50354539 50354547 50354570 50354588

Parameter	Units	Method Blank Result	PRL	Footnotes
Benzene	ug/kg	ND	1	
Ethylbenzene	ug/kg	ND	1	
Toluene	ug/kg	ND	1	
Methyl-tert-butyl Ether	ug/kg	ND	5	
m,p-Xylene	ug/kg	ND	2	
Xylene (1,2-Dimethylbenzene)	ug/kg	ND	1	
m,a,a-Trifluorotoluene (S)	%	59		

TRIX SPIKE & MATRIX SPIKE DUPLICATE: 50360239 50360247

Parameter	Units	50354521	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Benzene	ug/kg	0	20	20.32	102	20.03	100	1	
Ethylbenzene	ug/kg	0	20	18.33	91.7	17.22	86.1	6	
Toluene	ug/kg	0	20	19.19	96.0	18.11	90.6	6	
m,p-Xylene	ug/kg	0	40	37.30	93.3	35.33	88.3	6	
Xylene (1,2-Dimethylbenzene)	ug/kg	0	20	18.59	93.0	17.42	87.1	7	
m,a,a-Trifluorotoluene (S)					77		71		

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QUALITY CONTROL DATA

DATE: 12/02/99

PAGE: 21

Pace Project Number: 506920

Client Project ID: GM Metal FAB Division

LABORATORY CONTROL SAMPLE: 50360221

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Benzene	ug/kg	20	24.66	123	
Ethylbenzene	ug/kg	20	20.61	103	
Toluene	ug/kg	20	21.39	107	
m&p-Xylene	ug/kg	40	42.53	106	
o-Xylene (1,2-Dimethylbenzene)	ug/kg	20	23.96	120	
a,a,a-Trifluorotoluene (S)				72	

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QUALITY CONTROL DATA

DATE: 12/02/99
PAGE: 22

Arcadis, Geraghty & Miller
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Attn: Mr. Rob Walker
Phone: 317-231-6500

QC Batch ID: 9296

QC Batch Method: EPA 8015 Mod Ext

Analysis Method: EPA 8015 Mod Ext

Analysis Description: TPH, Soil, Ext. by Mod. 8015

Associated Pace Samples:

50354463	50354471	50354489	50354521	50354539
50354547	50354570	50354588		

METHOD BLANK: 50360445

Associated Pace Samples:

50354463	50354471	50354489	50354521	50354539	50354547	50354570
50354588						

Parameter	Units	Method Blank Result	PRL	Footnotes
Diesel Range Organics o-Terphenyl (S)	mg/kg %	ND 113	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50360452 50360460

Parameter	Units	50354463	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Diesel Range Organics o-Terphenyl (S)	mg/kg	0	83.33	46.67	56.0 122	76.17	91.4 125	48	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50360585 50360593

Parameter	Units	50356104	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Diesel Range Organics o-Terphenyl (S)	mg/kg	0	83.33	53.13	63.8 116	47.30	56.8 107	12	

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QUALITY CONTROL DATA

DATE: 12/02/99
PAGE: 23

Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

LABORATORY CONTROL SAMPLE: 50360478

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Jieseï Range Organics	mg/kg	83.33	51.80	62.2	
o-Terphenyl (S)				122	

REPORT OF LABORATORY ANALYSIS

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401 East Ohio Street
Indianapolis, IN 46204

Client Project ID: GM Metal FAR Division

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Arcadis, Geraghty & Miller
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

Pace Project Number: 506920

Indianapolis, IN 46204

Attn: Mr. Rob Walker
Phone: 317-231-6500

QUALITY CONTROL DATA

Associated Pace Samples:

50354463	50354471	50354489	50354521	50354539
50354547	50354570	50354590		

ANALYSIS DESCRIPTION: Polycyclic Aromatic Hydrocarbons

Analysis Description: Polycyclic Aromatic Hydrocarbons

Indianapolis, IN 46204

Tel: 317-875-5894
Fax: 317-872-6189

QUALITY CONTROL DATA

DATE: 12/02/99
PAGE: 24

QC Batch ID: 9308
QC Batch ID: 9308
Analysis Method: EPA 8270

QC Batch Method: EPA 8270
QC Batch Method: EPA 8270
Analysis Description: Polycyclic Aromatic Hydrocarbons

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REPORT OF LABORATORY ANALYSIS

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Tel: 317-875-5894
Fax: 317-872-6189

DATE: 12/02/99
PAGE: 25

Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND Not Detected
NC Not Calculable
PRL Pace Reporting Limit
RPD Relative Percent Difference
(S) Surrogate
[1] MS/MSD recoveries were not within acceptable windows, due to the matrix of the sample. All other QC were within acceptable windows. 11/24/99 LMA

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Project Number/Name 1N000473.0005.0003

Project Location 6M METAL FAB DIVISION

Laboratory PACE

Project Manager BOB WALKER

Sampler(s)/Affiliation JASON COSGROVE

CHAIN-OF-CUSTODY RECORD

506920

Sample ID/Location Matrix Date/Time Sampled Lab ID

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Remarks	Total
METAL FAB Btm 1	S	11/22/99	11:35		
Btm 2		11:40			
N		11:45			
S		11:50			
E		11:55			
W		12:00			
BD		12:10			
SPOILS					

SEE BELOW
TPH DRO
BTex + mtrbe
DNA 8310

Sample Matrix: L = Liquid; S = Solid; A = Air

Relinquished by: Jason Cosgrove Organization: ARCADIS Date 11/22/99 Time 1350 Seal Intact? Yes

Received by: Bob Walker Organization: PACE Date 11/22/99 Time 1350 Seal Intact? Yes

Relinquished by: _____ Organization: _____ Date _____ Time _____ Seal Intact? _____

Received by: _____ Organization: _____ Date _____ Time _____ Seal Intact? _____

Special Instructions/Remarks: * CALL BOB WALKER 11/23 AM FOR ANALYSIS *

Total No. of Bottles/ Containers 22

Delivery Method: ☒ In Person

☐ Common Carrier

Lat _____ Currier _____

Luther _____

0000026

Pace Analytical

7726 Moller Road
Indianapolis, IN 46268
Phone: (317) 875-5894
Fax: (317) 872-6189

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
Tel: 317-875-5894
Fax: 317-872-6189
12/02/99

Ms. Barbara Cooley
Arcadis, Geraghty & Miller
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

Pace Analytical Services, Inc.
NW 8922
P.O. Box 1450
Minneapolis, MN 55485-8922

370146/GERAGHTY&MLR

IN000473.0005.003

Mary McGill-Maxwell

Due Upon Receipt

1

Client Reference: GM Metal FAB Division
Report Sent To: Mr. Rob Walker
Arcadis, Geraghty & Miller
Pace Project No: 506920

Quantity	U/M	Description	Method	Matrix	Price	Total
ANALYTICAL Charges:						
8.00	ea	Aromatic Volatile Organics	EPA 8021	Soil	35.00	\$ 280.00
8.00	ea	TPH, Soil, Ext. by Mod. 8015	EPA 8015 Mod Ext	Soil	35.00	\$ 280.00
8.00	ea	Polyaromatic Hydrocarbons	EPA 8270	Soil	110.00	\$ 880.00
ANALYTICAL SUBTOTAL:						\$ 1440.00
TOTAL INVOICE AMOUNT:						\$ 1440.00

REPORT OF LABORATORY ANALYSIS

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Sampler(s)/Affiliation JASON COSGROVE

[illegible]

Delivery Method: ☒ In Person

☐ Common Carrier☐ Lab Courier

三

Sample Receiving Checklist

Client: Ger + Miller	
Cooler Temperature:	°C No Cooler
Cooling Material:	Blue Ice Wet Ice <u>No Ice</u>
Packing Material:	Foam Bubble Wrap Foam Peanuts <u>Other</u> None
Shipper:	FedEx UPS Airborne <u>Client</u> Other
Air Bill Tracking # :	
Cooler Seals intact?	Yes No <u>N/A</u>
Received by: (signature, date, and time)	
Victoria K. Janner 11/22/99 1350	

Sample Discrepancy List

[illegible]

000030

P a c e
Indi
Sample Receipt Form

DATE: 11/23/99
PAGE: 1

Report to Address:
Arcadis, Geraghty & Miller
Mr. Rob Walker
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

Alternate Bill to:
Arcadis, Geraghty & Miller
Ms. Barbara Cooley
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

Phone: 317-231-6500
FAX: 317-231-6514

Client P O No: IN000473.0005.003
Client Project ID: GM Metal FAB Division
Project Manager: Mary McGill-Maxwell
Phone:

Pace Project No: 506920
Project Deliverables Type: PACE Level B
Project Report Ship Date : 11/29/99

Pace Sample No	Client Sample ID	Cooler ID	Collected Date	Lab Rec'd Date	Matrix
0354463	METFAB BTM 1		11/22/99	11/22/99	Soil

Comments : Level 3

PARAMETER	METHOD	UNIT PRICE
Aromatic Volatile Organics	EPA 8021	\$ 35.00
TPH, Soil, Ext. by Mod. 8015	EPA 8015 Mod Ext	\$ 35.00
Polyaromatic Hydrocarbons	EPA 8270	\$ 110.00
Sub Total - Sample 50354463		\$ 180.00

Pace Sample No	Client Sample ID	Cooler ID	Collected Date	Lab Rec'd Date	Matrix
50354471	METFAB BTM 2		11/22/99	11/22/99	Soil

Comments : Level 3

PARAMETER	METHOD	UNIT PRICE
Aromatic Volatile Organics	EPA 8021	\$ 35.00
TPH, Soil, Ext. by Mod. 8015	EPA 8015 Mod Ext	\$ 35.00
Polyaromatic Hydrocarbons	EPA 8270	\$ 110.00
Sub Total - Sample 50354471		\$ 180.00

Pace Sample No	Client Sample ID	Cooler ID	Collected Date	Lab Rec'd Date	Matrix
0354489	METFAB N		11/22/99	11/22/99	Soil

Comments : Level 3

PARAMETER	METHOD	UNIT PRICE
Aromatic Volatile Organics	EPA 8021	\$ 35.00
TPH, Soil, Ext. by Mod. 8015	EPA 8015 Mod Ext	\$ 35.00

000031

Pace
Indi
Sample Receipt Form

DATE: 11/23/99
PAGE: 2

Client P O No: IN000473.0005.003
Client Project ID: GM Metal FAB Division
Project Manager: Mary McGill-Maxwell
Phone:

Pace Project No: 506920
Project Deliverables Type: PACE Level B
Project Report Ship Date : 11/29/99

Pace Sample No	Client Sample ID	Cooler ID	Collected Date	Lab Rec'd Date	Matrix
50354489	METFAB N		11/22/99	11/22/99	Soil
PARAMETER		METHOD		UNIT PRICE	
Polyaromatic Hydrocarbons		EPA 8270		\$ 110.00	
Sub Total - Sample 50354489				\$ 180.00	

Pace Sample No	Client Sample ID	Cooler ID	Collected Date	Lab Rec'd Date	Matrix
0354521	METFAB S		11/22/99	11/22/99	Soil

Comments : Level 3

PARAMETER	METHOD	UNIT PRICE
Aromatic Volatile Organics	EPA 8021	\$ 35.00
TPH, Soil, Ext. by Mod. 8015	EPA 8015 Mod Ext	\$ 35.00
Polyaromatic Hydrocarbons	EPA 8270	\$ 110.00
Sub Total - Sample 50354521		\$ 180.00

Pace Sample No	Client Sample ID	Cooler ID	Collected Date	Lab Rec'd Date	Matrix
50354539	METFAB E		11/22/99	11/22/99	Soil

Comments : Level 3

PARAMETER	METHOD	UNIT PRICE
Aromatic Volatile Organics	EPA 8021	\$ 35.00
TPH, Soil, Ext. by Mod. 8015	EPA 8015 Mod Ext	\$ 35.00
Polyaromatic Hydrocarbons	EPA 8270	\$ 110.00
Sub Total - Sample 50354539		\$ 180.00

Pace Sample No	Client Sample ID	Cooler ID	Collected Date	Lab Rec'd Date	Matrix
0354547	METFAB W		11/22/99	11/22/99	Soil

Comments : Level 3

PARAMETER	METHOD	UNIT PRICE
Aromatic Volatile Organics	EPA 8021	\$ 35.00
TPH, Soil, Ext. by Mod. 8015	EPA 8015 Mod Ext	\$ 35.00
Polyaromatic Hydrocarbons	EPA 8270	\$ 110.00

000032

P a c e

Indi

Sample Receipt Form

DATE: 11/23/99

PAGE: 3

Client P O No: IN000473.0005.003
Client Project ID: GM Metal FAB Division
Project Manager: Mary McGill-Maxwell
Phone:

Pace Project No: 506920
Project Deliverables Type: PACE Level B
Project Report Ship Date : 11/29/99

Pace Sample No	Client Sample ID	Cooler ID	Collected Date	Lab Rec'd Date	Matrix
50354547	METFAB W		11/22/99	11/22/99	Soil

Sub Total - Sample 50354547 \$ 180.00

Pace Sample No	Client Sample ID	Cooler ID	Collected Date	Lab Rec'd Date	Matrix
50354570	METFAB BD		11/22/99	11/22/99	Soil

Comments : Level 3

PARAMETER	METHOD	UNIT PRICE
Aromatic Volatile Organics	EPA 8021	\$ 35.00
TPH. Soil, Ext. by Mod. 8015	EPA 8015 Mod Ext	\$ 35.00
Polyaromatic Hydrocarbons	EPA 8270	\$ 110.00
Sub Total - Sample 50354570		\$ 180.00

Pace Sample No	Client Sample ID	Cooler ID	Collected Date	Lab Rec'd Date	Matrix
50354588	METFAB SPOILS		11/22/99	11/22/99	Soil

Comments : Level 3

PARAMETER	METHOD	UNIT PRICE
Aromatic Volatile Organics	EPA 8021	\$ 35.00
TPH. Soil, Ext. by Mod. 8015	EPA 8015 Mod Ext	\$ 35.00
Polyaromatic Hydrocarbons	EPA 8270	\$ 110.00
Sub Total - Sample 50354588		\$ 180.00

Grand Total - Project 506920 \$ 1,440.00

The pricing above does not reflect associated shipping, bottle, sample disposal and other miscellaneous charges. Prices are subject to change without notice. Contact your Pace Project Manager for further information.

000033

Client: GERAGHTY&MLR

000034

Pace Analytical

Pace Analytical Services, Inc.

7726 Moller Road
Indianapolis, IN 46268

Tel: 317-875-5894

Fax: 317-872-6189

February 03, 2000

Mr. Rob Walker
Arcadis, Geraghty & Miller
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

metal
fab
spots (PCBs)

RE: Pace Project Number: 508013
Client Project ID: ALLISON TRANSMISSION

Dear Mr. Walker:

Enclosed are the results of analyses for sample(s) received by the laboratory on January 31, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mary McGill Maxwell

Mary McGill Maxwell
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Pace Analytical

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268

Tel: 317-875-5894
Fax: 317-872-6189

DATE: 02/03/00
PAGE: 1

Arcadis, Geraghty & Miller
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

Pace Project Number: 508013
Client Project ID: ALLISON TRANSMISSION

Attn: Mr. Rob Walker
Phone: 317-231-6500 xx105

Solid results are reported on a wet weight basis

Pace Sample No:	50427194	Date Collected:	01/28/00	Matrix:	Soil
Client Sample ID:	METAL FAB SPOILS	Date Received:	01/31/00		

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
------------	---------	-------	-----	----------	---------	------	-----------

GC Semivolatiles

PCBs in Soil by 8082	Method: EPA 8082	Prep Method: EPA 3550
PCB-1016 (Arochlor 1016)	ND ug/kg 33	02/02/00 SRS 12674-11-2
PCB-1221 (Arochlor 1221)	ND ug/kg 33	02/02/00 SRS 11104-28-2
PCB-1232 (Arochlor 1232)	ND ug/kg 33	02/02/00 SRS 11141-16-5
PCB-1242 (Arochlor 1242)	ND ug/kg 33	02/02/00 SRS 53469-21-9
PCB-1248 (Arochlor 1248)	ND ug/kg 33	02/02/00 SRS 12672-29-6
PCB-1254 (Arochlor 1254)	ND ug/kg 33	02/02/00 SRS 11097-69-1
PCB-1260 (Arochlor 1260)	ND ug/kg 33	02/02/00 SRS 11096-82-5
Decachlorobiphenyl (S)	47 %	02/02/00 SRS 2051-24-3
Tetrachloro-meta-xylene (S)	66 %	02/02/00 SRS 877-09-8
Date Extracted		01/31/00

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DATE: 02/03/00

PAGE: 2

Pace Project Number: 508013

Client Project ID: ALLISON TRANSMISSION

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
(S)	Surrogate

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Indianapolis, IN 46268

Tel: 317-875-5894
Fax: 317-872-6189

QUALITY CONTROL DATA

DATE: 02/03/00
PAGE: 3

Arcadis. Geraghty & Miller
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

Pace Project Number: 508013
Client Project ID: ALLISON TRANSMISSION

Attn: Mr. Rob Walker
Phone: 317-231-6500 xx105

QC Batch ID: 10971
Analysis Method: EPA 8082
Associated Pace Samples:

50427194

QC Batch Method: EPA 3550
Analysis Description: PCBs in Soil by 8082

METHOD BLANK: 50428358
Associated Pace Samples:

50427194

Parameter	Units	Method Blank Result	PRL	Footnotes
PCB-1016 (Arochlor 1016)	ug/kg	ND	33	
PCB-1221 (Arochlor 1221)	ug/kg	ND	33	
PCB-1232 (Arochlor 1232)	ug/kg	ND	33	
PCB-1242 (Arochlor 1242)	ug/kg	ND	33	
PCB-1248 (Arochlor 1248)	ug/kg	ND	33	
PCB-1254 (Arochlor 1254)	ug/kg	ND	33	
PCB-1260 (Arochlor 1260)	ug/kg	ND	33	
Decachlorobiphenyl (S)	%	47		
Tetrachloro-meta-xylene (S)	%	69		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50428572 50428580

Parameter	Units	50426964	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
PCB-1016 (Arochlor 1016)	ug/kg	0	166.7	138.3	83.0	131.5	78.9	5	
PCB-1260 (Arochlor 1260)	ug/kg	0	166.7	128.2	76.9	125.3	75.2	2	
Decachlorobiphenyl (S)					45		44		
Tetrachloro-meta-xylene (S)					71		66		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

DATE: 02/03/00

PAGE: 4

Pace Project Number: 508013

Client Project ID: ALLISON TRANSMISSION

LABORATORY CONTROL SAMPLE: 50428382

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
PCB-1016 (Arochlor 1016)	ug/kg	166.7	136.7	82.0	
PCB-1260 (Arochlor 1260)	ug/kg	166.7	128.0	76.8	
Decachlorobiphenyl (S)				0	
Tetrachloro-meta-xylene (S)				0	

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Pace Analytical

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268

Tel: 317-875-5894
Fax: 317-872-6189

DATE: 02/03/00
PAGE: 5

Pace Project Number: 508013
Client Project ID: ALLISON TRANSMISSION

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
RPD	Relative Percent Difference
(S)	Surrogate

REPORT OF LABORATORY ANALYSIS

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Sampler(s)/Affiliation J. J. Williams / Alaska

Eqn# 508013

AG 05-059

Seal Intact?

Yes No N/A

1111

Seal intact?
Yes No N/A

Pace Analytical

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46261

Tel: 317-875-5894
Fax: 317-872-6186

DATE: 12/02/99
PAGE: 15

Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Pace Sample No: 50354588
Client Sample ID: METFAB SPOILS

Date Collected: 11/22/99
Date Received: 11/22/99
Matrix: Soil

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
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GC Volatiles**Aromatic Volatile Organics**

Method: EPA 8021

Prep Method: EPA 8021

Benzene	ND	ug/kg	1	11/24/99	LMA	71-43-2	
Ethylbenzene	ND	ug/kg	1	11/24/99	LMA	100-41-4	
Toluene	ND	ug/kg	1	11/24/99	LMA	108-88-3	
Methyl-tert-butyl Ether	ND	ug/kg	5	11/24/99	LMA	1634-04-4	
m,p-Xylene	ND	ug/kg	2	11/24/99	LMA		
o-Xylene (1,2-Dimethylbenzene)	ND	ug/kg	1	11/24/99	LMA	95-47-6	
a,a,a-Trifluorotoluene (S)	403	x		11/24/99	LMA	2164-17-2	3

GC Semivolatiles

TPH, Soil, Ext. by Mod. 8015

Method: EPA 8015 Mod Ext

Prep Method: EPA 8015 Mod Ext

Diesel Range Organics	ND	mg/kg	10	12/01/99	DLB		
o-Terphenyl (S)	107	x		12/01/99	DLB	84-15-1	
Date Extracted				11/29/99			

C/MS Semivolatiles**Polyaromatic Hydrocarbons**

Method: EPA 8270

Prep Method: EPA 3550

Naphthalene	ND	ug/kg	330	12/01/99	DKS	91-20-3	
Acenaphthylene	ND	ug/kg	330	12/01/99	DKS	208-96-8	
Acenaphthene	ND	ug/kg	330	12/01/99	DKS	83-32-9	
Fluorene	ND	ug/kg	330	12/01/99	DKS	86-73-7	
Phenanthrene	ND	ug/kg	330	12/01/99	DKS	85-01-8	
Anthracene	ND	ug/kg	330	12/01/99	DKS	120-12-7	
Fluoranthene	ND	ug/kg	330	12/01/99	DKS	206-44-0	
Pyrene	ND	ug/kg	330	12/01/99	DKS	129-00-0	
Benzo(a)anthracene	ND	ug/kg	330	12/01/99	DKS	56-55-3	
Chrysene	ND	ug/kg	330	12/01/99	DKS	218-01-9	
Benzo(b)fluoranthene	ND	ug/kg	330	12/01/99	DKS	205-99-2	
Benzo(k)fluoranthene	ND	ug/kg	330	12/01/99	DKS	207-08-9	
Benzo(a)pyrene	ND	ug/kg	330	12/01/99	DKS	50-32-8	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	330	12/01/99	DKS	193-39-5	
Benzo(g,h,i)perylene	ND	ug/kg	330	12/01/99	DKS	191-24-2	
Dibenz(a,h)anthracene	ND	ug/kg	330	12/01/99	DKS	53-70-3	
Nitrobenzene-d5 (S)	89	x		12/01/99	DKS	4165-60-0	
2-Fluorobiphenyl (S)	92	x		12/01/99	DKS	321-60-8	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
Tel: 317-875-5894
Fax: 317-872-6189

December 02, 1999

Mr. Rob Walker
Arcadis, Geraghty & Miller
251 East Ohio Street
Suite 800
Indianapolis, IN 46204

RE: Pace Project Number: 506920
Client Project ID: GM Metal FAB Division

Dear Mr. Walker:

Enclosed are the results of analyses for sample(s) received on November 22, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mary McGill-Maxwell
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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ARCADIS GERAGHTY & MILLER

Appendix D

UST Liquids Disposal
Documentation

مجلس

U.S. DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF SOLID AND HAZARDOUS WASTE MANAGEMENT
P.O. Box 7035
Indianapolis, IN 46207-7035

PLEASE PRINT OR TYPE

(Form designed for use on elite (12-pitch) typewriter.)

Form Approved: OMB No. 2050-0039. Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's U.S. EPA ID Number

Manifest Document No.

2. Page 1

Information in the shaded areas is not required by Federal Law, but items D, F, H, I and K are required by State Law.

3. Generator's Name and Mailing Address

A. State Manifest Document Number

INA1399476

ALLISON TRANSMISSION

B. State Generator's ID

29902

P.O. Box 894 N. 10A
INDIANAPOLIS, IN 46206

4. Generator's Telephone Number

C. State Transporter's ID

D. Transporter's Phone

5. Transporter 1 Company Name

6. U.S. EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

7. Transporter 2 Company Name

8. U.S. EPA ID Number

9. Designated Facility Name and Site Address

10. U.S. EPA ID Number

G. State Facility's ID

H. Facility's Phone

PORTAGE ENVIRONMENTAL SERVICES, INC.
201 WEST MORRIS STREET
INDIANAPOLIS, IN 46201

I. N. 00000000000000000000

(317) 243-0811

11. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers

13. Total Quantity

14. Unit Wt/Vol.

I. Waste No.

a. 001 T-2000 S

No.

Type

Quantity

Unit Wt/Vol.

Waste No.

b.

c.

d.

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

1127-4 D001 D008 D040

1127-4 D001

15. Special Handling Instructions and Additional Information

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

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name

Signature

ON Behalf of EMI Corp.

Date

Robert C. Schirmer

Robert C. Schirmer

Month Day Year

17. Transporter 1 - Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date

JOHN ZADGEN

John Zadgen

Month Day Year

18. Transporter 2 - Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date

19. Discrepancy Indication Space

Volume discrepancy confirmed with Rob Schirmer 8/23/99. ON

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest (except as noted in Item 19).

Printed/Typed Name

Signature

Date

John Zadgen

John Zadgen

Month Day Year

INA 1399476

and the National Response Center at 800/424-3020
and the National Response Center at 317/233-7745 (day only)

Appendix E

Photographic Documentation



Photo 1: 1000-gallon UST, GM Metal Fabricating Division, 398 Division Street, Indianapolis, Indiana.



Photo 2: UST excavation, GM Metal Fabricating Division, 398 Division Street, Indianapolis, Indiana.