



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
ENVIRONMENTAL LABORATORY**

P.O. Box 30270  
Lansing, MI 48909  
TEL: (517) 335-9800  
FAX: (517) 335-9600

**Division:** AQD  
**Report to:** JEFF KORNISKI  
MDEQ-AQD-WARREN  
SOUTHEAST MICHIGAN DISTRICT OFF  
27700 DONALD COURT, WARREN, MI 48092-2793

**Lab Work Order # :** 30300128  
**Work Site ID :** P0431  
**Site Name :** DETROIT BULK STORAGE  
**Received:** 03/20/2013  
**Reported:** 04/09/2013  
**Collected By:** JEFF KORNISKI

**Total:** \$252.00

**Samples Received :**

<b>No:</b>	<b>Sample ID</b>	<b>Sample Description</b>	<b>Matrix:</b>	<b>Collection Date</b>
01	AC13118	PET COKE	SEDIMENT	03/07/2013

I certify that the analysis performed by the MDEQ Environmental Laboratory are accurate and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

George L. Krisztian,  
Laboratory Director



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**Sample Number: AC13118 PET COKE**

CAS#	Analyte Name	Result	Unit	RL	Qualifier	Date Tested	Method	Analyst
	Digest Mercury - Sediment	Completed				03/27/2013	7471	TB
7439-97-6	Mercury - Sediment	ND	mg/Kg dry	0.05		03/28/2013	7471	TS
7440-36-0	Antimony - Sediment	ND	mg/Kg dry	0.3		03/28/2013	6020	TK
7440-38-2	Arsenic - Sediment	ND	mg/Kg dry	0.5		03/26/2013	6020	TK
7440-39-3	Barium - Sediment	1.8	mg/Kg dry	1		03/26/2013	6020	TK
7440-41-7	Beryllium - Sediment	ND	mg/Kg dry	0.2		03/26/2013	6020	TK
7440-43-9	Cadmium - Sediment	ND	mg/Kg dry	0.2		03/26/2013	6020	TK
7440-47-3	Chromium - Sediment	ND	mg/Kg dry	2		03/26/2013	6020	TK
7440-48-4	Cobalt - Sediment	0.88	mg/Kg dry	.5		03/26/2013	6020	TK
7440-50-8	Copper - Sediment	ND	mg/Kg dry	1		03/26/2013	6020	TK
	Digest Antimony - Sediment	Completed				03/22/2013	3050	TB
	Digest Metals - Sediment	Completed				03/25/2013	3050	TB
7439-89-6	Iron - Sediment	78	mg/Kg dry	5		04/08/2013	6010	WN
7439-92-1	Lead - Sediment	ND	mg/Kg dry	1		03/26/2013	6020	TK
7439-96-5	Manganese - Sediment	1.4	mg/Kg dry	1		03/26/2013	6020	TK
7439-98-7	Molybdenum - Sediment	20	mg/Kg dry	1		03/26/2013	6020	TK
7440-02-0	Nickel - Sediment	190	mg/Kg dry	1		03/26/2013	6020	TK
7782-49-2	Selenium - Sediment	ND	mg/Kg dry	0.2		03/26/2013	6020	TK
7440-22-4	Silver - Sediment	ND	mg/Kg dry	0.1		03/26/2013	6020	TK
7440-28-0	Thallium - Sediment	ND	mg/Kg dry	0.5		03/26/2013	6020	TK
7440-62-2	Vanadium - Sediment	470	mg/Kg dry	1		03/26/2013	6020	TK
7440-66-6	Zinc - Sediment	2.2	mg/Kg dry	1		03/26/2013	6020	TK
	% Total Solids	99.9	%	0.1		03/26/2013	2540B SM	JW
	Drying and Grinding - Sediment	COMPLETE				03/26/2013		JW

CAS# : Chemical Abstract Service Registry Number

RL : Reporting Limit

ND : Not Detected

ug / L : microgram / liter (ppb)

mg / L : milligram / liter (ppm)

ug / Kg : microgram / kilogram (ppb)

mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts

Inorganic Unit Mgr: Kirby Shane

Organic Unit Mgr: Carol Smith

Systems Mgmt Unit: George Krisztian



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<u>Qualifier Code</u>	<u>Qualifier Description</u>
1	Result(s) and RL(s) are estimated due to low surrogate recovery.
2	Result is estimated due to high surrogate recovery.
3	Result(s) and RL(s) are estimated due to low matrix spike recovery.
4	Result is estimated due to high matrix spike recovery.
5	Result and RL are estimated due to low continuing calibration standard criteria failure.
6	Result is estimated due to high continuing calibration standard criteria failure.
7	Result(s) and RL(s) are estimated due to poor precision.
8	Result(s) and RL(s) are estimated due to low recovery of batch QC.
9	Result outside QC acceptance criteria.
A	Value reported is the mean of two or more determinations.
C	Value calculated from other independent parameters.
D	Analyte value quantified from a dilution(s); reporting limit (RL) raised.
E	Result is estimated due to high recovery of batch QC.
F	Amenable cyanide was not analyzed due to low level of total cyanide.
G	Result and RL are estimated due to initial calibration standard criteria failure.
H	Recommended laboratory holding time was exceeded.
I	Dilution required due to matrix interference; reporting limit (RL) raised.
J	Analyte was positively identified. Value is an estimate.
JA	Result is estimated due to multiple Aroclors present.
JC	Result is estimated since confirmation analysis did not meet acceptance criteria
JD	Due to severe degradation, specific Aroclor identification is difficult and quantitation is estimated.
K	RL(s) raised due to matrix interferences.
KR	RL(s) raised due to low sample volume submitted.
KS	RL(s) raised due to low total solids.
KW	RL(s) raised due to light sample weight.
LB	Reported library search compounds are tentative identifications with estimated concentrations.
M	The level of the method preparation blank (MPB) is reported in the qualifier column.
N	Non-homogeneous sample made analysis of sample questionable.
O	Result and RL estimated due to analysis from an open vial.
P	Recommended sample collection/preservation technique not used; reported result(s) is an estimate.
PI	Possible interference may have affected the accuracy of the laboratory result
Q	Quantity of sample insufficient to perform analyses requested.
R	Result confirmed by re-extraction and analysis.
S	Supernatant analyzed.
T	Reported value is less than the reporting limit (RL). Result is estimated.
V	Value not available due to dilution.
W	Reported value is less than the method detection limit (MDL).
X	Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200°C. 2-Methylnaphthalene & naphthalene have boiling points above 200°C and are better suited to analysis by methods 8270 or 625 as semivolatile organics.
Z	Result reported below the RL to meet the TDL in RRD Op Memo 2 (10/22/04) multiplied by applicable dilution factor.

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