



Engineering Services, Inc.

Massachusetts Office
400 Libbey Parkway
Weymouth, MA 02189
Office (781) 952-6000
Fax (781) 335-3543
e.mail: vertex@vertexeng.com

September 9, 2005

Mr. Jay Hooper
CRIC Capital, LLC
One Exeter Plaza
Boston, MA 02116

RE: Status Update Letter
Valvoline Oil Change Facility
832 East Moreland Boulevard
Waukesha, WI
VERTEX Proj. No. 7129

Dear Mr. Hooper:

Per your request, this letter represents an update of the current status relating to environmental issues at the above referenced site.

VERTEX Engineering Services, Inc. (VERTEX) completed a review of a Draft Phase I Environmental Site Assessment (ESA) dated September 29, 2004, a Limited Phase II ESA dated November 9, 2004, an Additional Phase II ESA dated December 24, 2004, and an Addendum to Phase II ESA dated January 31, 2005. The reports were completed by K. Singh & Associates, Inc. (KSA), for Great Lakes Real Estate.

Peer Review Findings:

The site consists of an automotive oil change/service facility with two service bays. The site property consists of 20,191 square feet and is developed with a 1,161 square foot single story building operating under the Valvoline concept name. Based on the review of various assessors and building department records, the site was first developed in 1929 with a gasoline station operated by Standard Oil. The gasoline station operated at the site until the early 1980s. The original structure on-site was razed in 1986 and the current site building was constructed in 1987. Historically, the site maintained three 1,000-gallon, two 500-gallon and two 4,000-gallon USTs utilized to store gasoline, fuel oil and waste oil. The USTs and fuel dispensers were reportedly removed from the site at an undetermined time. Based on the findings of their Phase I ESA, KSA recommended that a Limited Phase II Environmental Site Assessment (subsurface

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Peer Review Findings:

The site consists of an automotive oil change/service facility with two service bays. The site property consists of 20,191 square feet and is developed with a 1,161 square foot single story building operating under the Valvoline concept name. Based on the review of various assessors and building department records, the site was first developed in 1929 with a gasoline station operated by Standard Oil. The gasoline station operated at the site until the early 1980s. The original structure on-site was razed in 1986 and the current site building was constructed in 1987. Historically, the site maintained three 1,000-gallon, two 500-gallon and two 4,000-gallon USTs utilized to store gasoline, fuel oil and waste oil. The USTs and fuel dispensers were reportedly removed from the site at an undetermined time. Based on the findings of their Phase I ESA, KSA recommended that a Limited Phase II Environmental Site Assessment (subsurface

investigation) be performed at the site to assess whether or not the site had been impacted by the historic use as a gasoline station.

KSA performed the Limited Phase II ESA on November 4, 2004. The investigation included the installation of seven Geoprobe borings to depths ranging from 5 to 8 feet below grade. A total of five soil samples were submitted for analysis petroleum volatile organic compounds (PVOCs). Two of the soil samples were also analyzed for polynuclear aromatic hydrocarbons (PNAs) and for gasoline range organics (GRO). Groundwater was encountered in one of the test borings (GP-6). A groundwater sample was collected from this location and was analyzed for PVOCs. Results of the investigation revealed low level impacts by petroleum constituents in soil only. The concentrations of Benzo(a)pyrene in soil samples collected from GP-4 and GP-5 were noted to be above the applicable Wisconsin Department of Natural Resources (WDNR) direct contact protection standard of 8.8 micrograms per kilogram (ug/kg). Based on the results, KSA recommended that an additional investigation be performed at the site to further assess site soils and groundwater.

KSA performed the Additional Phase II ESA on November 23, 2004. The investigation included the installation of eight soil borings using hollow stem auger drilling techniques. The soil borings were advanced to depths ranging from 15 to 25 feet below ground surface. Soil samples were collected and screened in the field. A total of ten soil samples were submitted for varying analyses including PVOCs, PNAs and GRO. Three of the soil borings (SB-1, SB-4 and SB-8) were converted to monitoring wells MW-1, MW-2 and MW-3. Groundwater samples were collected and analyzed for varying analyses including PVOCs, VOCs, PNAs, Naphthalene and lead. Results of the additional investigation revealed low levels of impacted soil from various borings at concentrations below the WDNR industrial direct contact standards. No concentrations of PVOCs or VOCs were detected in the groundwater samples collected. However, concentrations of GRO of 1890 micrograms per liter (ug/l) and 75.2 ug/l were detected in the groundwater samples collected from MW-1 and MW-2 respectively. The WDNR does not have a standard for GRO. PNA analytes benzo(b)flouranthene and chrysene were detected at concentrations in the groundwater samples from MW-1 (0.0206 ug/l for benzo(b)flouranthene and 0.0210 ug/l for chrysene) and MW-2 (0.0218 ug/l for benzo(b)flouranthene only) above the WDNR Preventative Action Level (PAL) (0.02 ug/l) but below the Enforcement Standard (ES) (2.0 ug/l). Based on the results of their investigation, KSA concluded that low levels of petroleum impact below applicable actionable standards exist in site soils and groundwater. Since the concentrations in groundwater of chrysene and benzo(b)flouranthene were only slightly above the respective PALs, KSA recommended that one additional round of groundwater sampling be conducted at the site in order to verify the concentrations.

KSA performed a second round of groundwater sampling for the monitoring wells MW-1 and MW-2 on January 13, 2005. Groundwater samples collected were analyzed for VOCs and PNAs. Results of the groundwater sampling did not reveal concentrations of any VOCs or PNAs above the respective PALs or ESs. No concentrations of benxo(b)flouranthene or chrysene were detected above the laboratory detection level of 0.02 ug/l. Based on the results of the additional round of groundwater sampling, KSA concluded that no additional investigation was required.

VERTEX Conclusions and Recommendations:

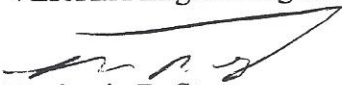
Based on the reports reviewed, it appears that only low levels of petroleum constituents have been detected in site soils and groundwater. Although there were original concentrations in groundwater of two analytes slightly above the WDNR PALs, confirmation sampling of the two monitoring wells of concern did not reveal any concentrations above the applicable PALs. Based on this information, VERTEX concurs with KSA that additional investigation is not warranted and a reportable situation does not exist at the site.

As long as the intended use of the site remains as commercial and the site remains paved, VERTEX does not recommend any additional investigation. However, if the intended use of the site is to change from commercial to residential or to any other use where exposure to site soils could be created through potential excavation or other activities, management of impacts soils would need to be conducted.

VERTEX appreciates the opportunity to be of service in this matter. Please contact us if there are any additional questions. Thank you.

Sincerely,

VERTEX Engineering Services, Inc.


Benjamin B. Strong
Division Manager





K. SINGH & ASSOCIATES, INC.

Engineers, Scientists and Environmental Management Consultants

January 31, 2005

Mr. John Theisen
Great Lakes Real Estate
720 Main Street
Mukwonago, WI 53149

Project #4607

Subject: Addendum to Phase II Environmental Site Assessment Report for Valvoline Instant Oil Change located at 832 East Moreland Boulevard, Waukesha, WI

Dear Mr. Theisen:

We are pleased to submit an addendum to Additional Phase I Environmental Site Assessment Report (ESA), which K. Singh & Associates, Inc. submitted on December 24, 2004. An additional groundwater sampling was conducted in accordance with the recommendations made in Additional Phase II report.

- Second round of groundwater monitoring was conducted for the concerned monitoring wells MW-1 and MW-2 on January 13, 2005. Groundwater monitoring wells location is depicted in Figure 1. Groundwater samples were collected after the wells were purged in accordance to WDNR guidelines. Groundwater samples were tested for volatile organic carbons (VOCs) and polynuclear aromatic hydrocarbons (PNAs). The groundwater analytical test results are included in Attachment A
- Depth to groundwater across the site ranges from 20 feet to 22 feet BGS.
- Groundwater quality is assessed relative to the preventive action limits (PAL) and enforcement standards (ES) set forth in NR 140 of the Wisconsin Administrative Code. Analytical test results indicate that all the detected contaminants are minimal. VOCs were not detected in any of the groundwater samples above their NR 140 Preventive Action Limit. Concentration of benzo (b) fluoranthene and chrysene were found to be below NR 140 PAL in MW-1.

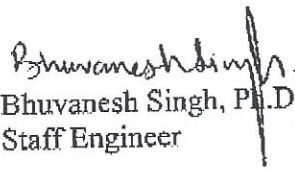
Based on the results of the Additional Phase II Environmental Site Assessment, it is established that subsurface groundwater contaminants concentrations are below NR 140

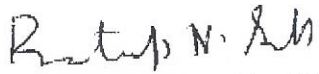
Mr. John Theisen
Page # 2

PAL. Therefore, no further site investigation is required. All monitoring wells, MW-1 through MW-3 should be abandoned as per NR-141 guidelines. We appreciate this opportunity to provide environmental management services. If we can be of further assistance in discussing this report with you, please contact us.

Sincerely,

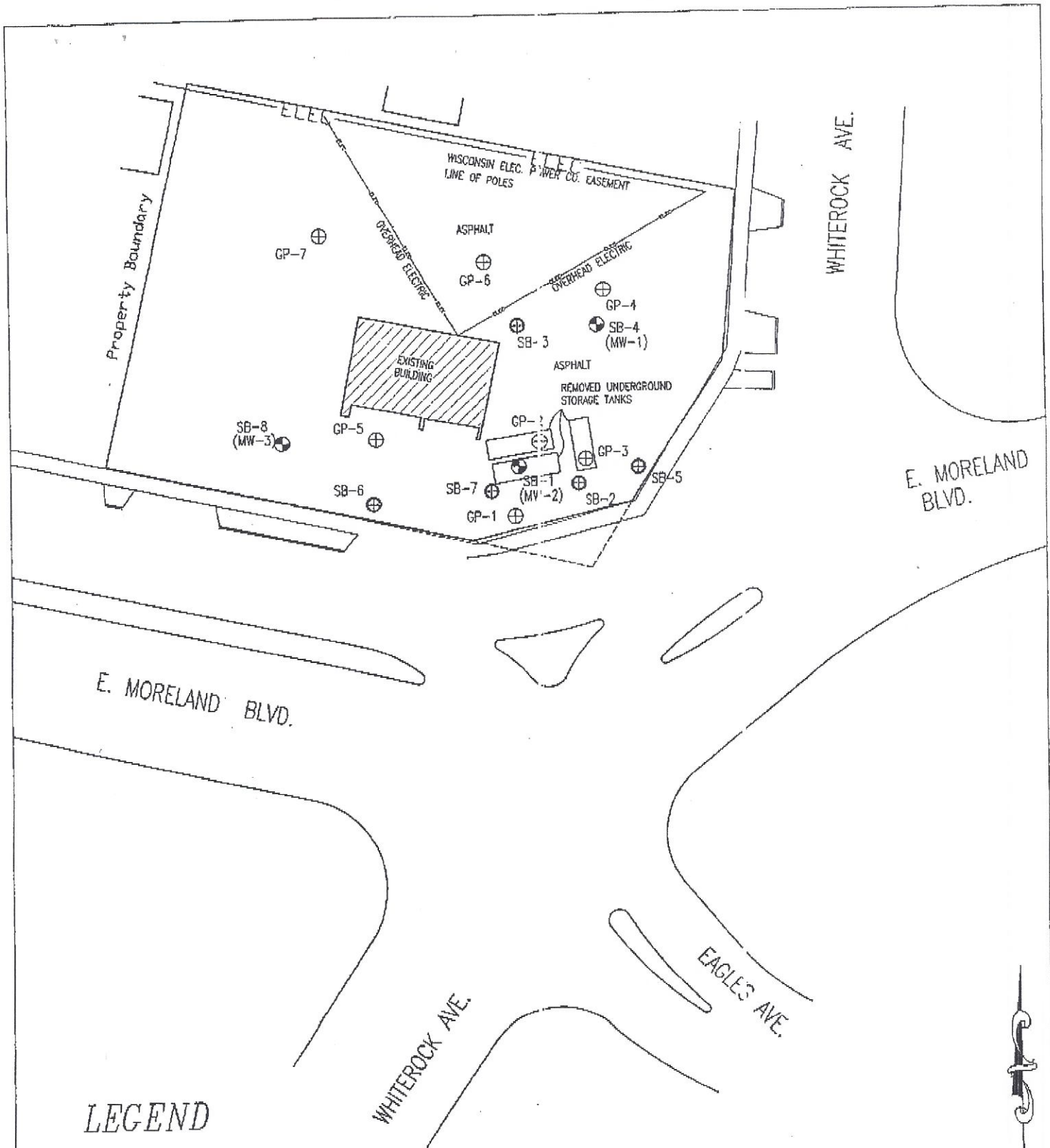
K. SINGH & ASSOCIATES, INC.


Bhuvanesh Singh, Ph.D.
Staff Engineer


Pratap N. Singh, Ph.D., P.E.
Project Manager

Enc:

Figure 1: Groundwater Monitoring Well Locations
Attachment A: Groundwater Analytical Test Results



LEGEND

- GP-3 ⊕ Soil Boring (Limited Phase II ESA)
- SB-1 ⊕ Soil Boring (Additional Phase II ESA)
- MW-1 ⊕ Monitoring Well

SCALE: 1" = 40'-0"



1	PROJECT	332 EAST MOORLAND BOULEVARD WAUKESHA, WI	TITLE	FIGURE 1: MONITORING WELL AND SOIL BORING LOCATION MAP	ENGINEER	K. SINGH & ASSOCIATES, INC. <i>Engineers, Scientists and Environmental Management Consultants</i>		DRAWN BY:	J.B.V.
					1135 Legion Drive Elm Grove, Wisconsin 53122 Phone: (262) 821-1171 FAX: (262) 821-1174 E-mail: ksh@kassoc.com	CHECKED BY:		DATE:	12/24/05
						PROJECT NO.:	1607	DRAWING FILE:	1607.dwg

Attachment A

Groundwater Analytical Test Results

K. SINGH & ASSOCIATES, INC.

Engineers and Environmental Management Consultants

1135 Legion Drive, Elba, Wisconsin 53122 (262) 821-1171 Fax (262) 821-1174

State of Wisconsin
 Department of Natural Resources

CHAIN OF CUSTODY RECORD
 LUST PROGRAM
 Form 4003-131

Notice: This form is required by the Department of Natural Resources for LUST sites in compliance with ch. NR 509.546, NR 158 and NR 419, Wis. Adm. Code

Sample Collected by: Bhuvanesh Singh, Title: Staff Engineer / Field Technician, Telephone # (including Area Code): 262-821-1171

Property Owner: Mr. John Truesen, Property Address: Valvoline Oil Change Facility, 832 E. Moreland Boulevard, Waukegan, WI, Telephone # (including Area Code): ---

Report to: Bhuvanesh Singh, Project # 4607

I hereby certify that I received, properly, and disposed of these samples as noted below:

Relinquished By (Signature): [Signature] Date Collected: 1-14-05 Date/Time: 11:42 Received By (Signature): [Signature] Date/Time: 11/14/05

Relinquished By (Signature): [Signature] Date Collected: 1/18/2005 Date/Time: 11:46 Received By (Signature): [Signature] Date/Time: 11/16/05

Relinquished By (Signature): [Signature] Date Collected: 1/18/2005 Date/Time: 11:54 AM Received By (Signature): [Signature] Date/Time: 11/16/05

Temperature/temperatures blank: 4607

Temperature/temperatures blank: 4607

Temperature/temperatures blank: 4607

If samples were received on ice and there was ice remaining, you may report the temperature as "received on ice". If all of the ice was melted, the temperature of the melt may be substituted for the temperature blank.

Field ID. Number	Date Collected	Time Collected	Samples (quantity)	Location/Description (see instructions)	Received By (Signature)	# / Type of Contaminant				Sample Condition			
						HNO ₃	HCl	H ₂ SO ₄	Impres.	Checked / Broken	Impres. Sealed	Good Cond.	Other Comment
P1-# 4607	1/13/2005	10:00 AM	GW/Baker	MW-1	[Signature]	-	3	-	-	W501102-01	-02		
P2-# 4607	1/13/2005	11:00 AM	GW/Baker	MW-2	[Signature]	-	3	-	-	↓	-03		
P3-# 4607	1/13/2005	11:34 AM	Dist. Water/Baker	Field blank	[Signature]	-	3	-	-				

1. Specify Groundwater (GW), Surface Water (SW), Soil (S), Sludge (SL), Air (A), etc.
 2. Sample description must clearly indicate the sample ID, to the sampling location.

DEPARTMENT USE / OPTIONAL FOR SOIL SAMPLES

DEPARTMENT USE ONLY

Split samples: Offroad? Yes No

Accepted? Yes No

Accepted By: _____ Signature

Disposition of unused portion of sample Laboratory shreds:

Dispose Return

Retain for _____ day

Other

01/27/2005 THU 4:51 FAX 4145709461 Great Lakes Analytical

001/019



140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

27 January 2005

Bhuvanesh Singh
K. Singh & Associates, Inc.
1135 Legion Drive
Elm Grove, WI 53122
RE: Valvoline Oil

Enclosed are the results of analyses for samples received by the laboratory on 01/14/05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Great Lakes Analytical

Michael Laupan For Andrea Stathas
Project Manager



140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9433

K. Singh & Associates, Inc.
1135 Legion Drive
Elm Grove, WI 53122

Project: Valvoline Oil
Project Number: 4607
Project Manager: Bhuvanesh Singh

Reported:
01/27/05 16:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Dth: Sampled	Date Received
MW-1	W:01102-01	Water	01/15/05 10:00	01/14/05 16:50
MW-2	W:01102-02	Water	01/15/05 11:00	01/14/05 16:50
Field Blank	W:01102-03	Water	01/15/05 11:30	01/14/05 16:50

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.

Great Lakes Analytical--Oak Creek

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.

Michael Laupan For Andrea Stathas, Project Manager



140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9431

K. Singh & Associates, Inc. 1135 Legion Drive Elm Grove, WI 53122	Project: Valvoline Oil Project Number: 4607 Project Manager: Bhuvanesh Singh	Reported: 01/27/05 16:00
---	--	-----------------------------

**WDNR Volatile Organic Compounds by Method 8260
Great Lakes Analytical--Oak Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W501102-01) Water	Sampled: 01/13/05 10:00 Received: 01/14/05 16:50								
Benzene	ND	0.500	ug/l	1	5010062	01/18/05	01/16/05	EPA 8260B	QC
Bromobenzene	ND	5.00	"	"	"	"	"	"	"
Bromodichloromethane	ND	0.391	"	"	"	"	"	"	"
n-Butylbenzene	11.2	5.00	"	"	"	"	"	"	"
sec-Butylbenzene	ND	5.00	"	"	"	"	"	"	"
tert-Butylbenzene	ND	5.00	"	"	"	"	"	"	"
Carbon tetrachloride	ND	0.372	"	"	"	"	"	"	"
Chlorobenzene	ND	5.00	"	"	"	"	"	"	"
Chloroethane	ND	5.00	"	"	"	"	"	"	"
Chloroform	ND	0.316	"	"	"	"	"	"	"
Chloromethane	ND	0.448	"	"	"	"	"	"	"
2-Chlorotoluene	ND	5.00	"	"	"	"	"	"	"
4-Chlorotoluene	ND	5.00	"	"	"	"	"	"	"
Dibromochloromethane	ND	5.00	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	0.264	"	"	"	"	"	"	"
1,2-Dibromoethane	ND	0.251	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.00	"	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	"
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	"
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.00	"	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.00	"	"	"	"	"	"	"
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	"
Ethylbenzene	42.5	5.00	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	10.0	"	"	"	"	"	"	"
Isopropylbenzene	18.9	5.00	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.00	"	"	"	"	"	"	"
Methylene chloride	ND	0.386	"	"	"	"	"	"	"
Methyl tert-butyl ether	ND	0.290	"	"	"	"	"	"	"
Naphthalene	ND	8.00	"	"	"	"	"	"	"
n-Propylbenzene	49.5	5.00	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.331	"	"	"	"	"	"	"
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	"
Toluene	ND	5.00	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	10.0	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	10.0	"	"	"	"	"	"	"

Great Lakes Analytical--Oak Creek

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.

Michael Laupan For Andrea Stathas, Project Manager

01/27/2005 THU 4:51 FAX 4145709461 Great Lakes Analytical



140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9451

K. Singh & Associates, Inc.
1135 Legion Drive
Elm Grove, WI 53122

Project: Valvoline Oil
Project Number: 4607
Project Manager: Bhuvanesh Singh

Reported:
01/27/05 16:00

WDNR Volatile Organic Compounds by Method 8260
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W501102-01) Water Sampled: 01/13/05 10:00 Received: 01/14/05 16:50 QC									
1,1,1-Trichloroethane	ND	5.00	ug/l	1	5010062	01/18/05	01/26/05	EPA 8260B	
1,1,2-Trichloroethane	ND	0.145	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.217	"	"	"	"	"	"	
Total Xylenes	ND	5.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		101 %	82.1-117	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	70.2-737	"	"	"	"	"	
Surrogate: Toluene-d8		140 %	74.1-125	"	"	"	"	"	H
Surrogate: 4-Bromofluorobenzene		141 %	88.5-103	"	"	"	"	"	H

MW-2 (W501102-02) Water Sampled: 01/13/05 11:00 Received: 01/14/05 16:50 QC									
Benzene	ND	0.500	ug/l	1	5010062	01/18/05	01/26/05	EPA 8260B	
Bromobenzene	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	0.391	"	"	"	"	"	"	
n-Butylbenzene	ND	5.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.372	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	0.316	"	"	"	"	"	"	
Chloromethane	ND	0.448	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
Dibromochloromethane	ND	5.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.264	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.251	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.00	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager

01/27/2005 THU 4:52 FAX 4145709461 Great Lakes Analytical



140 East Ryan Road
 Oak Creek, Wisconsin 53154

Email: info@glalabs.com
 (414) 570-9460 FAX (414) 570-9461

K. Singh & Associates, Inc.
 1135 Legion Drive
 Elm Grove, WI 53122

Project: Valvoline Oil
 Project Number: 4607
 Project Manager: Bhuvanesh Singh

Reported:
 01/27/05 16:00

WDNR Volatile Organic Compounds by Method 8260
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (W501102-02) Water Sampled: 01/13/05 11:00 Received: 01/14/05 16:50 QC									
Di-isopropyl ether	ND	5.00	ug/l	1	5010062	01/13/05	01/16/05	EPA 8260B	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.00	"	"	"	"	"	"	
Methylene chloride	ND	0.386	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.290	"	"	"	"	"	"	
Naphthalene	ND	8.00	"	"	"	"	"	"	
n-Propylbenzene	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.331	"	"	"	"	"	"	
Tetrachloroethane	ND	0.500	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.145	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.217	"	"	"	"	"	"	
Total Xylenes	ND	5.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		96.0 %		82.1-117	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		107 %		70.2-131	"	"	"	"	H
Surrogate: Toluene-d8		142 %		74.1-125	"	"	"	"	H
Surrogate: 4-Bromofluorobenzene		129 %		88.5-103	"	"	"	"	

Great Lakes Analytical--Oak Creek

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.

Michael Laupan For Andrea Stathas, Project Manager

01/27/2005 THU 4:52 FAX 4145709461 Great Lakes Analytical



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K. Singh & Associates, Inc.
 1135 Legion Drive
 Elm Grove, WI 53122

Project: Valvoline Oil
 Project Number: 4607
 Project Manager: Bhuvanesh Singh

Reported:
 01/27/05 16:00

WDNR Volatile Organic Compounds by Method 8260
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Field Blank (W501102-03) Water Sampled: 01/13/05 11:30 Received: 01/14/05 16:50									
Benzene	ND	0.500	ug/l	1	5010062	01/18/05	01/26/05	EPA 8260B	
Bromobenzene	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	0.391	"	"	"	"	"	"	
n-Butylbenzene	ND	5.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.372	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	0.316	"	"	"	"	"	"	
Chloromethane	ND	0.448	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
Dibromochloromethane	ND	5.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.264	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.251	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.00	"	"	"	"	"	"	
Methylene chloride	ND	0.386	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.290	"	"	"	"	"	"	
Naphthalene	ND	8.00	"	"	"	"	"	"	
n-Propylbenzene	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.331	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	10.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andra Stathas, Project Manager

01/27/2005 THU 4:52 FAX 4145709461 Great Lakes Analytical

007/013

140 East Ryan Road
Oak Creek, Wisconsin 53154Email: info@glslabs.com
(414) 570-9460 FAX (414) 570-9461K. Singh & Associates, Inc.
1135 Legion Drive
Elm Grove, WI 53122Project Valvoline Oil
Project Number 4607
Project Manager Bhuvanesh SinghReported:
01/27/05 16:00

WDNR Volatile Organic Compounds by Method 3260
Great Lakes Analytical—Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Field Blank (W501102-03) Water Sampled: 01/13/05 11:30 Received: 01/14/05 16:50									
1,1,1-Trichloroethane	ND	5.00	ug/l	1	5010062	01/18/05	01/26/05	EPA 8260B	
1,1,2-Trichloroethane	ND	0.145	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.217	"	"	"	"	"	"	
Total Xylenes	ND	5.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		115 %		82.1-117	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		111 %		70.2-131	"	"	"	"	H
Surrogate: Toluene-d8		148 %		74.1-125	"	"	"	"	H
Surrogate: 4-Bromofluorobenzene		119 %		88.5-103	"	"	"	"	

Great Lakes Analytical—Oak Creek

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Michael Laupan For Andra Stathas, Project Manager



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K. Singh & Associates, Inc.
1135 Legion Drive
Elm Grove, WI 53122

Project Valvoline Oil
Project Number 4607
Project Manager Bhuvanesh Singh

Reported:
01/27/05 16:00

Polynuclear Aromatic Hydrocarbons by EPA Method 8310
Great Lakes Analytical--Buffalo Grove

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W501102-01) Water	Sampled: 01/13/05 10:00		Received: 01/14/05 16:50						QC
Acenaphthene	ND	5.00	ug/l	1	5010309	01/14/05	01/20/05	EPA 8310	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0200	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0200	"	"	"	"	"	"	011
Benzo (ghi) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.100	"	"	"	"	"	"	
Chrysene	ND	0.0200	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.100	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.200	"	"	"	"	"	"	
1-Methylnaphthalene	10.1	5.00	"	"	"	"	"	"	
2-Methylnaphthalene	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	
Surrogate: Carbazole		66.5 %		18-132					

MW-2 (W501102-02) Water	Sampled: 01/13/05 11:00		Received: 01/14/05 16:50						QC
Acenaphthene	ND	5.00	ug/l	1	5010309	01/14/05	01/20/05	EPA 8310	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0200	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0200	"	"	"	"	"	"	011
Benzo (ghi) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.100	"	"	"	"	"	"	
Chrysene	ND	0.0200	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.100	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.200	"	"	"	"	"	"	
1-Methylnaphthalene	ND	5.00	"	"	"	"	"	"	
2-Methylnaphthalene	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	
Surrogate: Carbazole		63.0 %		18-132					

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager

01/27/2005 THU 4:53 FAX 4145709461 Great Lakes Analytical

009/019



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K. Singh & Associates, Inc.
1135 Legion Drive
Elm Grove, WI 53122

Project: Valvoline Oil
Project Number: 4607
Project Manager: Bhuvanesh Singh

Reported:
01/27/05 16:00

WDNR Volatile Organic Compounds by Method 8260 - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Batch 5010062 - EPA 5030B (P/T)										
Blank (5010062-BLK1)										
Prepared: 01/18/05 Analyzed: 01/22/05										
Benzene	ND	0.500	ug/l							
Bromobenzene	ND	5.00	"							
Bromodichloromethane	ND	0.391	"							
n-Butylbenzene	ND	5.00	"							
sec-Butylbenzene	ND	5.00	"							
tert-Butylbenzene	ND	5.00	"							
Carbon tetrachloride	ND	0.372	"							
Chlorobenzene	ND	5.00	"							
Chloroethane	ND	5.00	"							
Chloroform	ND	0.316	"							
Chloromethane	ND	0.448	"							
2-Chlorotoluene	ND	5.00	"							
4-Chlorotoluene	ND	5.00	"							
Dibromochloromethane	ND	5.00	"							
1,2-Dibromo-3-chloropropane	ND	0.264	"							
1,2-Dibromoethane	ND	0.251	"							
1,2-Dichlorobenzene	ND	5.00	"							
1,3-Dichlorobenzene	ND	5.00	"							
1,4-Dichlorobenzene	ND	5.00	"							
Dichlorodifluoromethane	ND	5.00	"							
1,1-Dichloroethane	ND	5.00	"							
1,2-Dichloroethane	ND	0.500	"							
1,1-Dichloroethene	ND	0.500	"							
cis-1,2-Dichloroethene	ND	5.00	"							
trans-1,2-Dichloroethene	ND	5.00	"							
1,2-Dichloropropane	ND	0.500	"							
1,3-Dichloropropane	ND	5.00	"							
2,2-Dichloropropane	ND	5.00	"							
Di-isopropyl ether	ND	5.00	"							
Ethylbenzene	ND	5.00	"							
Hexachlorobutadiene	ND	10.0	"							
Isopropylbenzene	ND	5.00	"							
p-Isopropyltoluene	ND	5.00	"							
Methylene chloride	ND	0.386	"							
Methyl tert-butyl ether	ND	0.290	"							

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Srathas, Project Manager



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K. Singh & Associates, Inc.
1135 Legion Drive
Elm Grove, WI 53122

Project Valvoline Oil
Project Number 4607
Project Manager Bhuvnesh Singh

Reported:
01/27/05 16:00

WDNR Volatile Organic Compounds by Method 8260 - Quality Control
Great Lakes Analytical-Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
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Batch 5010062 - EPA 5030B (P/T)

Prepared: 01/18/05 Analyzed: 01/22/05

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Blank (5010062-BLK1)										
Naphthalene	ND	8.00	ug/l							
n-Propylbenzene	ND	5.00	"							
1,1,2,2-Tetrachloroethane	ND	0.331	"							
Tetrachloroethene	ND	0.500	"							
Toluene	ND	5.00	"							
1,2,3-Trichlorobenzene	ND	10.0	"							
1,2,4-Trichlorobenzene	ND	10.0	"							
1,1,1-Trichloroethane	ND	5.00	"							
1,1,2-Trichloroethane	ND	0.145	"							
Trichloroethene	ND	0.500	"							
Trichlorofluoromethane	ND	5.00	"							
1,2,4-Trimethylbenzene	ND	5.00	"							
1,3,5-Trimethylbenzene	ND	5.00	"							
Vinyl chloride	ND	0.217	"							
Total Xylenes	ND	5.00	"							
Surrogate: Dibromofluoromethane	56.1		"	50.0		112	82.1-117			
Surrogate: 1,2-Dichloroethane-d4	55.9		"	50.0		112	70.2-131			
Surrogate: Toluene-d8	74.1		"	50.0		148	74.1-125			H
Surrogate: 4-Bromofluorobenzene	58.3		"	50.0		117	88.5-103			H

Prepared: 01/18/05 Analyzed: 01/25/05

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
LCS (5010062-BS1)										
Benzene	23.4	0.500	ug/l	20.0		117	70-130			
Bromobenzene	21.6	5.00	"	20.0		108	70-130			
Bromodichloromethane	21.3	0.391	"	20.0		106	70-130			
n-Butylbenzene	23.1	5.00	"	20.0		115	70-130			
sec-Butylbenzene	20.8	5.00	"	20.0		104	70-130			
tert-Butylbenzene	21.3	5.00	"	20.0		106	70-130			
Carbon tetrachloride	21.4	0.372	"	20.0		107	70-130			
Chlorobenzene	23.6	5.00	"	20.0		118	70-130			
Chloroethane	22.0	5.00	"	20.0		110	70-130			
Chloroform	17.5	0.316	"	20.0		87.5	70-130			
Chloromethane	25.9	0.448	"	20.0		129	70-130			
2-Chlorotoluene	22.6	5.00	"	20.0		113	70-130			
4-Chlorotoluene	22.8	5.00	"	20.0		114	70-130			
Dibromochloromethane	22.0	5.00	"	20.0		110	70-130			
1,2-Dibromo-3-chloropropane	19.9	0.264	"	20.0		99.5	70-130			

Great Lakes Analytical-Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager

01/27/2005 THU 4:54 FAX 4145709461 Great Lakes analytical



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K. Singh & Associates, Inc.
 1135 Legion Drive
 Elm Grove, WI 53122

Project: Valvoline Oil
 Project Number: 4607
 Project Manager: Bhuvanesh Singh

Reported:
 01/27/05 16:00

WDNR Volatile Organic Compounds by Method 8260 - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Batch 5010062 - EPA 5030B (P/T)										
Prepared: 01/18/05 Analyzed: 01/25/05										
LCS (5010062-BS1)										
1,2-Dibromothane	26.1	0.251	ug/l	20.0		130	70-130			
1,2-Dichlorobenzene	23.9	5.00	"	20.0		120	70-130			
1,3-Dichlorobenzene	23.0	5.00	"	20.0		115	70-130			
1,4-Dichlorobenzene	24.0	5.00	"	20.0		120	70-130			
Dichlorodifluoromethane	23.8	5.00	"	20.0		119	70-130			
1,1-Dichloroethane	20.6	5.00	"	20.0		103	70-130			
1,2-Dichloroethane	17.9	0.500	"	20.0		89.5	70-130			
1,1-Dichloroethene	20.1	0.500	"	20.0		100	70-130			
cis-1,2-Dichloroethene	19.2	5.00	"	20.0		96.0	70-130			
trans-1,2-Dichloroethene	21.9	5.00	"	20.0		110	70-130			
1,2-Dichloropropane	23.8	0.500	"	20.0		119	70-150			
1,3-Dichloropropane	24.0	5.00	"	20.0		120	70-130			
2,2-Dichloropropane	20.1	5.00	"	20.0		100	70-130			
Di-isopropyl ether	35.0	5.00	"	20.0		175	70-130			H
Ethylbenzene	25.8	5.00	"	20.0		129	70-130			
Hexachlorobutadiene	22.4	10.0	"	20.0		112	70-130			
Isopropylbenzene	29.5	5.00	"	20.0		148	70-130			H
p-Isopropyltoluene	22.7	5.00	"	20.0		114	70-130			
Methylene chloride	22.2	0.386	"	20.0		111	70-130			
Methyl tert-butyl ether	18.2	0.200	"	20.0		91.0	70-130			
Naphthalene	21.6	8.00	"	20.0		108	70-130			
n-Propylbenzene	22.0	5.00	"	20.0		110	70-150			
1,1,1,2-Tetrachloroethane	21.9	0.331	"	20.0		110	70-130			
Tetrahydroethene	23.3	0.500	"	20.0		116	70-130			
Toluene	22.4	5.00	"	20.0		112	70-130			
1,2,3-Trichlorobenzene	22.1	10.0	"	20.0		110	70-130			
1,2,4-Trichlorobenzene	22.4	10.0	"	20.0		112	70-130			
1,1,1-Trichloroethane	18.2	5.00	"	20.0		91.0	70-130			
1,1,2-Trichloroethane	23.6	0.145	"	20.0		118	70-130			
Trichloroethene	23.0	0.500	"	20.0		115	70-130			
Trichlorofluoromethane	20.3	5.00	"	20.0		101	70-130			
1,2,4-Trimethylbenzene	22.4	5.00	"	20.0		112	70-130			
1,3,5-Trimethylbenzene	21.2	5.00	"	20.0		106	70-130			
Vinyl chloride	21.8	0.217	"	20.0		109	70-130			
Total Xylenes	80.2	5.00	"	60.0		134	70-130			H

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager



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(414) 570-9460 FAX (414) 570-9451

K. Singh & Associates, Inc. 1135 Legion Drive Elm Grove, WI 53122	Project: Valvoline Oil Project Number: 4607 Project Manager: Bhuvanesh Singh	Reported: 01/27/05 16:00
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WDNR Volatile Organic Compounds by Method 8260 - Quality Control
Great Lakes Analytical-Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Batch 5010062 - EPA 5030B (P/T)										
LCS (5010062-BS1)										
Prepared: 01/18/05 Analyzed: 01/25/05										
Surrogate: Dibromofluoromethane	48.8		ug/l	50.0		97.6	82.1-117			
Surrogate: 1,2-Dichloroethane-d4	54.0		"	50.0		108	70.2-131			
Surrogate: Toluene-d8	61.6		"	50.0		123	74.1-123			
Surrogate: 4-Bromofluorobenzene	70.9		"	50.0		142	88.5-103			H
Matrix Spike (5010062-MS1)										
Source: W501077-1' Prepared: 01/18/05 Analyzed: 01/25/05										
Benzene	22.9	0.500	ug/l	20.0	ND	114	71.3-121			
Bromobenzene	23.4	5.00	"	20.0	ND	117	71.1-113			
Bromodichloromethane	22.5	0.391	"	20.0	ND	112	70.3-133			
n-Butylbenzene	25.1	5.00	"	20.0	ND	126	55.4-123			
sec-Butylbenzene	21.9	5.00	"	20.0	ND	110	64.2-120			
tert-Butylbenzene	22.1	5.00	"	20.0	ND	110	54.9-125			
Carbon tetrachloride	22.5	0.372	"	20.0	ND	112	52.7-131			
Chlorobenzene	23.2	5.00	"	20.0	ND	116	73.1-111			H
Chloroethane	27.4	5.00	"	20.0	ND	137	47.7-133			H
Chloroform	23.7	0.316	"	20.0	ND	118	69.1-126			
Chloromethane	27.4	0.448	"	20.0	ND	137	50.7-120			H
2-Chlorotoluene	22.7	5.00	"	20.0	ND	114	63.4-119			
4-Chlorotoluene	23.6	5.00	"	20.0	ND	118	65.9-126			
Dibromochloromethane	25.2	5.00	"	20.0	ND	126	67.4-116			H
1,2-Dibromo-3-chloropropane	22.1	0.264	"	20.0	ND	110	56.6-133			H
1,2-Dibromoethane	25.5	0.251	"	20.0	ND	128	69.2-114			H
1,2-Dichlorobenzene	24.0	5.00	"	20.0	ND	120	70.7-124			
1,3-Dichlorobenzene	23.9	5.00	"	20.0	ND	120	71.1-119			H
1,4-Dichlorobenzene	23.6	5.00	"	20.0	ND	118	69.6-113			H
Dichlorodifluoromethane	27.0	5.00	"	20.0	ND	135	53.1-124			H
1,1-Dichloroethane	24.0	5.00	"	20.0	ND	120	68.6-131			
1,2-Dichloroethane	22.2	0.500	"	20.0	ND	111	63.1-125			
1,1-Dichloroethene	23.3	0.500	"	20.0	ND	116	59.5-113			H
cis-1,2-Dichloroethene	23.9	5.00	"	20.0	ND	120	66.6-131			
trans-1,2-Dichloroethene	23.8	5.00	"	20.0	ND	119	57.2-132			
1,2-Dichloropropane	23.3	0.500	"	20.0	ND	116	76.4-120			
1,3-Dichloropropane	23.6	5.00	"	20.0	ND	118	72.3-111			H
2,2-Dichloropropane	23.9	5.00	"	20.0	ND	120	57.9-117			H
Di-isopropyl ether	43.7	5.00	"	20.0	ND	218	59.2-122			H
Ethylbenzene	25.8	5.00	"	20.0	ND	129	64.7-130			

Great Lakes Analytical-Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager



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K. Singh & Associates, Inc.
1135 Legion Drive
Elm Grove, WI 53122

Project: Valvoline Oil
Project Number: 4607
Project Manager: Bhuvanesh Singh

Reported:
01/27/05 16:00

WDNR Volatile Organic Compounds by Method 8260 - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5010062 - EPA 5030B (P/T)										
Matrix Spike (5010062-MS1)										
Source: W501077-17 Prepared: 01/18/05 Analyzed: 01/25/05										
Hexachlorobutadiene	26.4	10.0	ug/l	20.0	ND	132	63.3-127			H
Isopropylbenzene	26.8	5.00	"	20.0	ND	134	55.1-133			H
p-Isopropyltoluene	23.5	5.00	"	20.0	ND	118	54.8-123			
Methylene chloride	22.2	0.386	"	20.0	ND	111	62.8-130			
Methyl tert-butyl ether	20.8	0.290	"	20.0	ND	104	54.5-125			
Naphthalene	26.2	8.00	"	20.0	3.97	111	48.5-135			
n-Propylbenzene	23.5	5.00	"	20.0	ND	118	64.6-125			
1,1,2,2-Tetrachloroethane	23.2	0.331	"	20.0	ND	116	67.8-125			
Tetrachloroethene	23.7	0.500	"	20.0	0.320	117	66.8-110			H
Toluene	22.9	5.00	"	20.0	0.370	113	72.5-103			H
1,2,3-Trichlorobenzene	26.9	10.0	"	20.0	ND	134	57.4-133			
1,2,4-Trichlorobenzene	27.8	10.0	"	20.0	ND	139	56.9-124			H
1,1,1-Trichloroethane	22.2	5.00	"	20.0	ND	111	59.8-129			
1,1,2-Trichloroethane	24.0	0.145	"	20.0	ND	120	74.5-115			H
Trichloroethene	21.6	0.500	"	20.0	ND	108	68.1-116			
Trichlorofluoromethane	26.1	5.00	"	20.0	ND	130	57.4-150			
1,2,4-Trimethylbenzene	23.6	5.00	"	20.0	ND	118	57-126			
1,3,5-Trimethylbenzene	21.5	5.00	"	20.0	ND	108	56.2-120			
Vinyl chloride	43.5	0.217	"	20.0	ND	218	59.4-139			H
Total Xylenes	74.3	5.00	"	60.0	ND	124	66.9-119			H
Surrogate: Dibromofluoromethane	51.6		"	50.0		103	82.1-117			
Surrogate: 1,2-Dichloroethane-d4	52.9		"	50.0		106	70.2-131			
Surrogate: Toluene-d8	65.2		"	50.0		130	74.1-123			H
Surrogate: 4-Bromofluorobenzene	62.1		"	50.0		124	88.5-103			H
Matrix Spike Dup (5010062-MSD1)										
Source: W501077-17 Prepared: 01/18/05 Analyzed: 01/25/05										
Benzene	24.0	0.500	ug/l	20.0	ND	120	71.3-120	4.69	23.7	
Bromobenzene	25.6	5.00	"	20.0	ND	128	71.1-118	8.98	26.7	H
Bromodichloromethane	24.9	0.391	"	20.0	ND	124	70.3-133	10.1	26	
n-Butylbenzene	26.7	5.00	"	20.0	ND	134	55.4-120	6.18	38.2	H
sec-Butylbenzene	23.6	5.00	"	20.0	ND	118	64.2-120	7.47	35.2	
tert-Butylbenzene	24.3	5.00	"	20.0	ND	122	54.9-120	9.48	30.6	
Carbon tetrachloride	24.0	0.372	"	20.0	ND	120	52.7-133	6.45	20.5	
Chlorobenzene	26.1	5.00	"	20.0	ND	130	73.1-111	11.8	23.1	H
Chloroethane	28.1	5.00	"	20.0	ND	140	47.7-133	2.52	28.6	H
Chloroform	26.2	0.316	"	20.0	ND	131	69.1-120	10.0	22.7	H

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager

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014/019



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K. Singh & Associates, Inc.
1135 Legion Drive
Elm Grove, WI 53122

Project: Valvoline Oil
Project Number: 4607
Project Manager: Bhuvanesh Singh

Reported:
01/27/05 16:00

WDNR Volatile Organic Compounds by Method 8260 - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Batch 5010062 - EPA 5030B (P/T)										
Matrix Spike Dup (5010062-MSD1)										
	Source: W501077-1			Prepared: 01/18/05		Analyzed: 01/25/05				
Chloromethane	27.2	0.448	ug/l	20.0	ND	136	50.7-121	0.733	40	H
2-Chlorotoluene	25.0	5.00	"	20.0	ND	125	63.4-113	9.64	25.6	H
4-Chlorotoluene	25.6	5.00	"	20.0	ND	128	65.9-123	8.13	26.2	H
Dibromochloromethane	28.0	5.00	"	20.0	ND	140	67.4-113	10.5	27.4	H
1,2-Dibromo-3-chloropropane	25.7	0.264	"	20.0	ND	128	56.6-133	15.1	38.9	
1,2-Dibromoethane	29.2	0.251	"	20.0	ND	146	69.2-113	13.5	20.7	H
1,2-Dichlorobenzene	27.3	5.00	"	20.0	ND	136	70.7-123	12.9	25.4	H
1,3-Dichlorobenzene	23.8	5.00	"	20.0	ND	129	71.1-111	7.65	25.6	H
1,4-Dichlorobenzene	26.8	5.00	"	20.0	ND	134	69.6-115	12.7	26	H
Dichlorodifluoromethane	27.3	5.00	"	20.0	ND	136	53.1-121	1.10	25.5	H
1,1-Dichloroethane	26.7	5.00	"	20.0	ND	134	68.6-131	10.7	22.1	H
1,2-Dichloroethane	24.0	0.500	"	20.0	ND	120	63.1-123	7.79	25.5	
1,1-Dichloroethene	23.6	0.500	"	20.0	ND	118	59.5-115	1.23	23.3	H
cis-1,2-Dichloroethene	26.7	5.00	"	20.0	ND	134	66.6-131	11.1	27.4	H
trans-1,2-Dichloroethene	24.8	5.00	"	20.0	ND	124	57.2-133	4.12	26.4	
1,2-Dichloropropane	25.8	0.500	"	20.0	ND	129	76.4-120	10.2	25.3	H
1,3-Dichloropropane	26.6	5.00	"	20.0	ND	133	72.3-111	12.0	23	H
2,2-Dichloropropane	23.4	5.00	"	20.0	ND	117	57.9-117	2.11	25.1	
Di-isopropyl ether	46.0	5.00	"	20.0	ND	230	59.2-123	5.13	28.6	H
Ethylbenzene	28.1	5.00	"	20.0	ND	140	64.7-130	8.53	25.7	H
Hexachlorobutadiene	28.2	10.0	"	20.0	ND	141	63.3-127	6.59	40	H
Isopropylbenzene	28.6	5.00	"	20.0	ND	143	55.1-133	6.50	28.5	H
p-Isopropyltoluene	26.1	5.00	"	20.0	ND	130	54.8-123	10.5	35.3	H
Methylene chloride	23.0	0.386	"	20.0	ND	115	62.8-130	3.54	23.7	
Methyl tert-butyl ether	20.5	0.290	"	20.0	ND	102	54.5-121	1.45	40	
Naphthalene	28.3	8.00	"	20.0	3.97	122	48.5-133	7.71	40	
n-Propylbenzene	25.4	5.00	"	20.0	ND	127	64.6-123	7.77	34.7	H
1,1,2,2-Tetrachloroethane	27.3	0.331	"	20.0	ND	136	67.8-123	10.2	22.5	H
Tetrachloroethene	25.4	0.500	"	20.0	0.320	125	66.8-110	6.92	24.6	H
Toluene	23.8	5.00	"	20.0	0.370	117	72.5-108	3.85	23.1	H
1,2,3-Trichlorobenzene	28.9	10.0	"	20.0	ND	144	57.4-133	7.17	31.8	H
1,2,4-Trichlorobenzene	29.6	10.0	"	20.0	ND	148	56.9-124	6.27	31.2	H
1,1,1-Trichloroethane	23.3	3.00	"	20.0	ND	118	59.8-129	5.69	21.8	
1,1,2-Trichloroethane	27.4	0.145	"	20.0	ND	137	74.5-113	13.2	23.7	H
Trichloroethene	23.2	0.500	"	20.0	ND	116	68.1-116	7.14	25.5	

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager

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V10/V17

140 East Ryan Road
Oak Creek, Wisconsin 53154Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9463K. Singh & Associates, Inc.
1135 Legion Drive
Ehm Grove, WI 53122Project: Valvoline Oil
Project Number: 4607
Project Manager: Bhuvanesh SinghReported:
01/27/05 16:00

WDNR Volatile Organic Compounds by Method 8260 - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Batch 5010062 - EPA 5030B (P/T)										
Matrix Spike Dup (5010062-MSD1)										
		Source: WS01077-17			Prepared: 01/18/05		Analyzed: 01/25/05			
Trichlorofluoromethane	26.4	5.00	ug/	20.0	ND	132	57.4-153	1.14	29.4	
1,2,4-Trimethylbenzene	25.6	5.00	"	20.0	ND	128	57-126	8.13	28.7	H
1,3,5-Trimethylbenzene	23.4	5.00	"	20.0	ND	117	56.2-125	8.46	31	
Vinyl chloride	42.6	0.217	"	20.0	ND	213	59.4-133	2.09	34.5	H
Total Xylenes	80.7	5.00	"	60.0	ND	134	66.9-117	8.26	24.3	H
S surrogate: Dibromofluoromethane	51.5		"	50.0		105	82.1-117			
S surrogate: 1,2-Dichloroethane-d4	52.9		"	50.0		106	70.2-131			
S surrogate: Toluene-d8	63.1		"	50.0		130	74.1-125			H
S surrogate: 4-Bromofluorobenzene	62.0		"	50.0		124	88.5-101			H

Great Lakes Analytical--Oak Creek

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K. Singh & Associates, Inc. 1135 Legion Drive Elm Grove, WI 53122	Project: Valvoline Oil Project Number: 4607 Project Manager: Bhuvanesh Singh	Reported: 01/27/05 16:00
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Polynuclear Aromatic Hydrocarbons by EPA Method 8310 - Quality Control
Great Lakes Analytical--Buffalo Grove

Analytic	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5010309 - EPA 3510C										
Prepared & Analyzed: 01/17/05										
Blank (5010309-BLK1)										
Acenaphthene	ND	4.50	ug/l							
Acenaphthylene	ND	4.50	"							
Anthracene	ND	4.50	"							
Benzo (a) anthracene	ND	0.0900	"							
Benzo (a) pyrene	ND	0.0180	"							
Benzo (b) fluoranthene	ND	0.0180	"							O11
Benzo (ghi) perylene	ND	4.50	"							
Benzo (k) fluoranthene	ND	0.0900	"							
Chrysene	ND	0.0180	"							
Dibenz (a,h) anthracene	ND	0.0900	"							
Fluoranthene	ND	4.50	"							
Fluorene	ND	4.50	"							
Indeno (1,2,3-cd) pyrene	ND	0.180	"							
1-Methylnaphthalene	ND	4.50	"							
2-Methylnaphthalene	ND	4.50	"							
Naphthalene	ND	4.50	"							
Phenanthrene	ND	4.50	"							
Pyrene	ND	4.50	"							
Surrogate: Carbazole	1.44			2.00		72.0	18-132			

Prepared & Analyzed: 01/19/05										
LCS (5010309-B51)										
Acenaphthene	2.22	0.500	ug/l	4.00		55.5	25.3-113			
Acenaphthylene	2.14	0.500	"	4.00		53.6	20.7-113			
Anthracene	2.24	0.500	"	4.00		56.0	30.8-113			
Benzo (a) anthracene	2.72	0.100	"	4.00		68.0	37.2-115			
Benzo (a) pyrene	2.29	0.0200	"	4.00		57.5	14.1-113			
Benzo (b) fluoranthene	2.58	0.0200	"	4.00		64.0	37.3-113			
Benzo (ghi) perylene	0.972	0.500	"	4.00		24.0	24.9-113			L O11
Benzo (k) fluoranthene	2.20	0.100	"	4.00		55.0	27.9-113			
Chrysene	2.76	0.0200	"	4.00		69.0	37.4-117			
Dibenz (a,h) anthracene	1.03	0.100	"	4.00		25.0	22.4-113			
Fluoranthene	2.43	0.500	"	4.00		60.0	31.3-114			
Fluorene	2.17	0.500	"	4.00		54.0	27.3-113			
Indeno (1,2,3-cd) pyrene	1.62	0.200	"	4.00		40.0	31.7-113			
1-Methylnaphthalene	1.89	0.500	"	4.00		47.0	20.1-113			

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager



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K. Singh & Associates, Inc.
1135 Legion Drive
Elm Grove, WI 53122

Project: Valvoline Oil
Project Number: 4607
Project Manager: Bhuvanesh Singh

Reported:
01/27/05 16:00

**Polynuclear Aromatic Hydrocarbons by EPA Method 8310 - Quality Control
Great Lakes Analytical--Buffalo Grove**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limit	RPD	RPD Limit	Notes
Batch 5010309 - EPA 3510C									
LCS (5010309-BS1)									
Prepared & Analyzed: 01/17/05									
2-Methylnaphthalene	1.81	0.500	ug/l	4.00	45.2	25.7-115			
Naphthalene	2.33	0.500	"	4.00	58.2	16.4-114			
Phenanthrene	2.40	0.500	"	4.00	60.0	26.6-112			
Pyrene	2.64	0.500	"	4.00	66.0	27.7-125			
Surrogate: Carbazole	1.27		"	2.00	63.5	18-132			
LCS Dup (5010309-BSD1)									
Prepared & Analyzed: 01/17/05									
Acenaphthone	2.02	0.500	ug/l	4.00	50.5	25.3-110	9.43	40	
Acenaphthylene	2.17	0.500	"	4.00	54.2	20.7-110	1.39	40	
Anthracene	2.32	0.500	"	4.00	58.0	30.8-110	3.51	40	
Benzo (a) anthracene	2.84	0.100	"	4.00	71.0	37.2-115	4.32	34	
Benzo (a) pyrene	2.49	0.0200	"	4.00	62.2	14.1-118	8.37	36.1	
Benzo (b) fluoranthene	2.77	0.0200	"	4.00	69.2	37.3-112	7.10	35.4	
Benzo (ghi) perylene	1.14	0.500	"	4.00	28.5	24.9-110	15.9	40	011
Benzo (k) fluoranthene	2.40	0.100	"	4.00	60.0	27.9-110	8.70	30	
Chrysene	2.89	0.0200	"	4.00	72.2	37.4-117	4.60	33.1	
Dibenz (a,h) anthracene	1.11	0.100	"	4.00	27.8	22.4-110	7.48	40	
Fluoranthene	2.41	0.500	"	4.00	60.2	31.3-114	0.826	40	
Fluorene	2.26	0.500	"	4.00	56.5	27.3-110	4.06	40	
Indeno (1,2,3-cd) pyrene	1.89	0.200	"	4.00	47.2	31.7-110	15.4	37.4	
1-Methylnaphthalene	1.89	0.500	"	4.00	47.2	20.1-113	0.00	40	
2-Methylnaphthalene	1.93	0.500	"	4.00	48.2	25.7-110	6.42	40	
Naphthalene	2.42	0.500	"	4.00	60.5	16.4-114	3.79	40	
Phenanthrene	2.49	0.500	"	4.00	62.5	26.6-112	3.68	40	
Pyrene	2.76	0.500	"	4.00	69.1	27.7-125	4.44	35	
Surrogate: Carbazole	1.35		"	2.00	66.1	18-132			

Great Lakes Analytical--Oak Creek

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