State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee WI 53212-3128

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

July 29, 2013

EEI Real Estate Holdings: Fortis LLC
2120Pewaukee Road #250
Waukesha, WI 53188

Subject: No Further Action Decision for the HOPE Christian School – Fortis 3601 North Port Washington Road Milwaukee, WI

FID: 341156970
BRRTS: 02-41-560763

Dear Sirs:

On July 25, 2013, the Wisconsin Department of Natural Resources ("the Department") received the, *"Petroleum Impacted Soil Removal and Soil Sampling and Analysis"*, report from United Engineering Consultants, Inc. (UEC). I have reviewed the document and concur that the environment has been restored to the extent practicable as provided in Section NR 708.09, Wisconsin Administrative Code. Therefore, the immediate action in response to a release has been completed and the Department of Natural Resources is requiring no further action at this time.

The Department appreciates the actions you have taken to investigate and remediate the contamination at this site. If you have any questions regarding this No Further Action determination, please feel free to contact me at the above address or at (414) 263-8644. Please refer to the FID number at the top of this letter in any future correspondence. Future correspondence should be sent directly to the Remediation and Redevelopment Program Assistant Vicky Stovall (414-263-8688) at the above address.

Sincerely,

John J. Hnat, P.G., C.P.G.
Project Manager\Hydrogeologist
Southeast Region
Bureau for Remediation and Redevelopment

C: Tim Anderson - UEC
WDNR SER Files

02-41-560763

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Notification For Hazardous Substance Discharge (Non-Emergency Only)

Form 4400-225 (05/12) Page 1 of 2

Emergency Discharges / Spills should be reported via the 24-Hour Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to s. 292.11 Wis. Stats. Non-emergency hazardous substance discharges may be reported by telefaxing or e-mailing a completed report to the Department, or calling or visiting a Department office in person. If you choose to notify the Department by telefax or by email, you should use this form to be sure that all necessary information is included. However, use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating the reporting requirements of ch. 292 Wis. Stats., shall be no less than $10 nor more than $5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** NOTIFY appropriate DNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from **(check one)**:

RECEIVED
JUL 25 2013
BY:

- [x] Underground Petroleum Storage Tank System (additional information may be required for Item 6 below)
- [ ] Aboveground Petroleum Storage Tank System
- [ ] Dry Cleaner Facility
- [ ] Other - Describe: _____

ATTN DNR: **R & R Program Associate** Date DNR Notified:

1. Discharge Reported By

Name	Firm	Phone No. (include area code)
Timothy J. Anderson	United Engineering Consultants, Inc.	(262) 785-1447

Mailing Address	Email Address
16237 W. Ryerson Road New Berlin, Wisconsin 53151	tauec@sbcglobal.net

2. Site Information

Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence/vacant property. Hope Christian School - Fortis

Location: Include street address, not PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60. 3601 N. Port Washington Road

Municipality: (City, Village, Township) Specify municipality in which the site is located, not mailing address/city.
Milwaukee

County:	Legal Description:	WTM:
Milwaukee	SW 1/4 NE 1/4 Sec 8 Tn 7 Range 22 (•) E ( ) W	X 689490 Y 292126

3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

EEI Real Estate Holdings: Fortis LLC

- [ ] Reported in compliance with s. 292.11(2), Wis. Stats., by a local government exempt from liability under s. 292.11(9)(e), Wis. Stats. For more information see http://dnr.wi.gov/org/aw/rr/lgu/liability.htm.

Contact Person Name (if different)	Phone Number	Email Address	
Mailing Address: 2120 Pewaukee Road #250	City: Waukesha	State: WI	ZIP Code: 53188

Property owner if Different From RP: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Contact Person Name (if different)	Phone Number	Email Address	
Mailing Address	City	State	ZIP Code

(continued)

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Notification For Hazardous Substance Discharge (Non-Emergency Only)

4. Hazardous Substance Information

Identify hazardous substance discharged (check all that apply):

- ☐ VOC's
- ☒ PAH's
- ☐ Metals (specify): _____
- ☐ Arsenic
- ☐ Chromium
- ☐ Cyanide
- ☐ Lead
- ☐ PCB's
- ☐ Diesel
- ☐ Fuel Oil
- ☐ Gasoline
- ☐ Hydraulic Oil
- ☐ Jet Fuel
- ☐ Mineral Oil
- ☐ Waste Oil
- ☐ Petroleum-Unknown Type
- ☐ PERC (Dry Cleaners)
- ☐ RCRA Hazardous Waste
- ☐ Leachate
- ☐ Fertilizer
- ☐ Pesticide/Herbicide/Insecticide(s)
- ☐ Other (specify): _____
- ☐ Unknown

5. Impacts to the Environment Information

Enter "K" for known/confirmed or "P" for potential for all that apply.

- ___ Air Contamination
- ___ Co-Contamination (Petroleum & Non-Petroleum)
- ___ Contamination Within 1 Meter of Bedrock
- ___ Contaminated Private Well
- ___ Contaminated Public Well
- ___ Contamination in Fractured Bedrock
- ___ Sanitary Sewer Contamination
- ___ Contamination in Right of Way
- ___ Fire Explosion Threat
- ___ Free Product
- ___ Groundwater Contamination
- ___ Off-Site Contamination
- ___ Other (specify): _____
- K Soil Contamination
- ___ Storm Sewer Contamination
- ___ Surface Water Contamination
- ___ Within 100 ft of Private Well
- ___ Within 1000 ft of Public Well

Contamination was discovered as a result of:

☐ Tank closure assessment Date [ ]
☒ Site assessment Date [05/03/2013]
☐ Other - Describe: _____ Date [ ]

Lab results: ☐ Lab results will be faxed upon receipt ☒ Lab results are attached

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

6. Federal Energy Act Requirements (Section 9002(d) of the Solid Waste Disposal Act (SWDA))

For all confirmed releases from UST's occurring after 9/30/2007 please provide the following information:

☐ Does not apply.

Source

- ☒ Tank
- ☐ Piping
- ☐ Dispenser
- ☐ Submersible Turbine Pump
- ☐ Delivery Problem
- ☐ Other (specify): _____

Cause

- ☐ Spill
- ☐ Overfill
- ☐ Corrosion
- ☐ Physical or Mechanical Damage
- ☐ Installation Problem
- ☐ Other (does not fit any of above)
- ☒ Unknown

Contact information to report non-emergency releases in DNR's five regions are as follows:

Northeast Region (FAX: 920-662-5197); Attention -- R&R Program Associate: DNRRRNER@wisconsin.gov

Brown, Calumet, Door, Fond du Lac **(except City of Waupun - see South Central Region)**, Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Sheboygan, Waupaca, Waushara, Winnebago counties

Northern Region (FAX: 715-623-6773); Attention -- R&R Program Associate: DNRRRNOR@wisconsin.gov

Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn counties

South Central Region (FAX: 608-273-5610); Attention -- R&R Program Associate: DNRRRSCR@wisconsin.gov

Columbia, Dane, Dodge, Fond du Lac **(City of Waupun only)**, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk, Walworth counties

Southeast Region (FAX: 414-263-8550); Attention -- R&R Program Associate: DNRRRSER@wisconsin.gov

Kenosha, Milwaukee, Ozaukee, Racine, Washington, Waukesha counties

West Central Region (FAX: 715-839-6076); Attention -- R&R Program Associate: DNRRRWCR@wisconsin.gov

Adams, Buffalo, Chippewa, Clark, Crawford, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood counties

United Engineering Consultants, Inc.

RECEIVED
JUL 25 2013
BY:

July 24, 2013

Mr. Jay Hnat
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
2300 N. Martin Luther King Drive
Milwaukee, Wisconsin 53212

Subject: Petroleum Impacted Soil Removal
and Soil Sampling and Analysis
Hope Christian School - Fortis
3601 N. Port Washington Road
Milwaukee, Wisconsin 53212
UEC Project No. 13020
FID No. 341156970

Dear Mr. Hnat:

During the construction of the addition to the above referenced school, petroleum impacted soil was encountered at the design bearing elevation of the continuous wall footing at the northwest corner. Key Engineering Group, Ltd. (Key) stated the petroleum contamination was most likely due to a release from a former Underground Storage Tank (UST) containing fuel oil. To facilitate the construction of the footing, the impacted soil was excavated and stockpiled on-site (See Figure-Soil Boring Location and Area of Impacted Soil Removal). Key sampled the stockpile on May 1 and 3, 2013 for Protocol B analysis for Waste Management landfill disposal.

Based on the results of the Protocol B analysis, the petroleum impacted soil was approved for disposal at Waste Management's Orchard Ridge RDF facility (See Pace Analytical Protocol B Analytical Results-May 6 and 10, 2013). On May 29, 2013, 63.62 tons of impacted soil was transported to Orchard Ridge RDF for disposal (See- Waste Management Non-Hazardous Manifests).

Due to the absence of excavation limit sampling and analysis, United Engineering Consultants, Inc. (United) advanced a soil boring with a track mounted drill rig subsequent to construction of the addition immediately adjacent to the petroleum impacted area (See-Soil Boring Log and Borehole Abandonment Form 3300-005 (4/08). Soil samples were collected at and below the approximate footing bottom at sample intervals of eight (8) to ten (10) feet and ten (10) to twelve (12) feet. The collected samples were analyzed for the presence of Polynuclear Aromatic Hydrocarbons (PAH).

The results indicated the presence of 1-Methylnaphthalene, 2-Methylnaphthalene and Phenanthrene at concentrations ranging from ten (10) to twenty four (24) ug/kg at the sample interval of eight (8) to ten (10) feet. These results were "J" flagged by the laboratory indicating their presence between the quantitation limit and the method detection limit. These concentrations are considerably less than their respective Generic Residual Contaminant Level (GRCL). No other PAH compounds were present at this sample interval as well as the ten (10) to twelve (12) foot interval at concentrations at or above their respective detection limits (See-Soil Analytical Results and Chain of Custody – June 20, 2013).

Based on the results of the soil sampling and PAH analysis and the petroleum impacted soil removal and disposal not exceeding one hundred (100) tons, United requests a "No Further Action" designation per WDNR Chapter 708.09 for the PAH release on behalf of Hope Christian School-Fortis.

Respectfully submitted,
UNITED ENGINEERING CONSULTANTS, INC.

Timothy J. Anderson

Timothy J. Anderson, P.E.
Principal

Attachments: Figure-Soil Boring Location and Area of Impacted Soil Removal
Pace Analytical Protocol B Analytical Results-May 6 and 10, 2013
Waste Management Non-Hazardous Manifests
Soil Boring Log
Borehole Abandonment Form 3300-005 (4/08)
Soil Analytical Results and Chain of
Custody – June 20, 2013

Professional Service Industries, Inc.
W237 N2878 Woodgate Road, Suite 2
Pewaukee, WI 53072

Phone: (262) 347-0898
Fax: (262) 347-2256

psi Information To Build On
Engineering • Consulting • Testing

Foundation Report

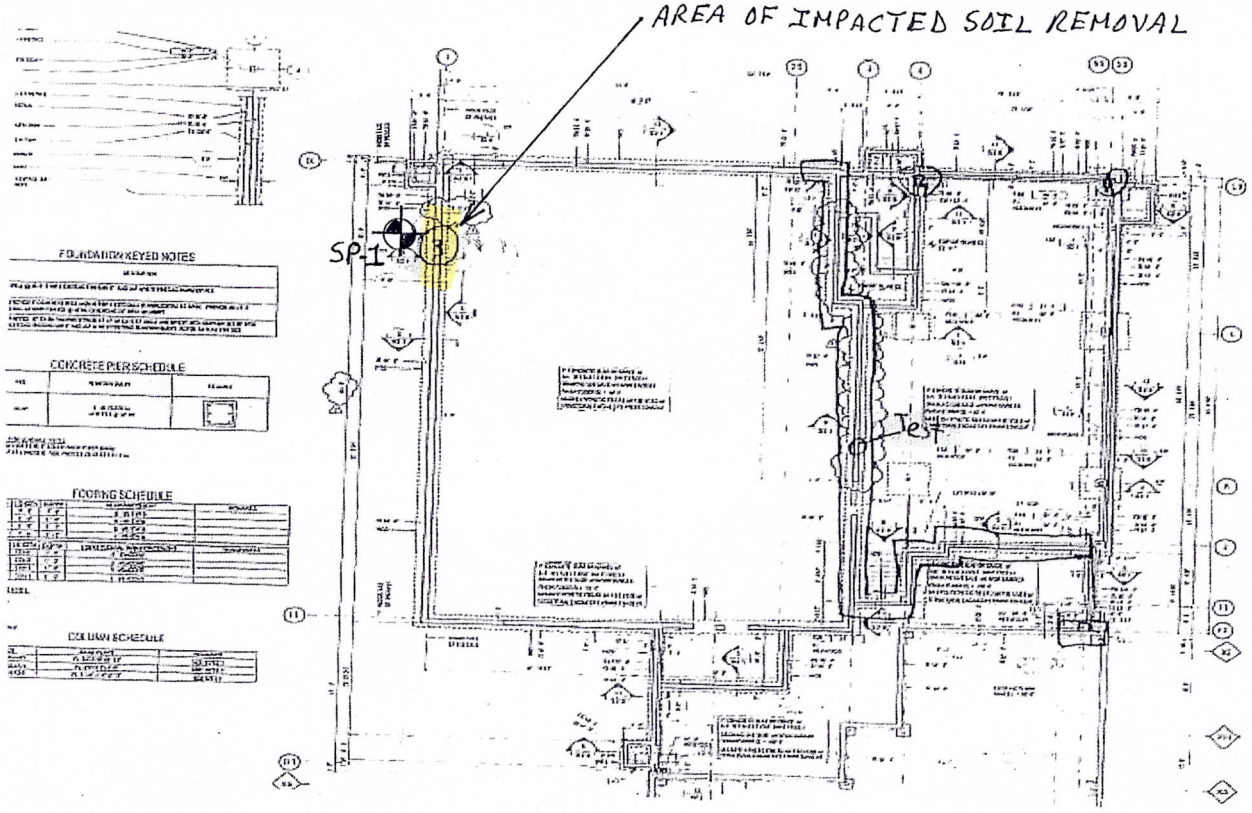
Report No: FRL:0051693-6
Issue No: 1

Client: CATALYST CONSTRUCTION
225 E. MASON STREET
SUITE 600
MILWAUKEE, WI 53202

CC: JOE SMALLWOOD,
RON KAMMERZELT

Project: HOPE FORTIS EXPANSION
MILWAUKEE, WI

Approved Signatory: Scott Renner (Project Specialist)
Date of Issue: 5/9/2013



STEPHEN PERRY SMITH ARCHITECTS, INC.
TWO PARK PLAZA
10850 W. PARK PLACE, SUITE 400
MILWAUKEE, WISCONSIN 53224
T 414.359.9700 | F 414.359.9704
PROJECT
HOPE
HOPE FORTIS
GYMNASIUM EXPANSION
3401 N. PORT WASHINGTON RD
MILWAUKEE, WI 53212
CONSTRUCTION MANAGER
CATALYST
225 E. MASON STREET, SUITE 600
MILWAUKEE, WI 53202
T: 414.727.6840
REVISIONS
INFORMATION

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 06, 2013

D'Arcy Gravelle
KEY ENGINEERING GROUP, LTD.
735 N. Water St
STE 1000
Milwaukee, WI 53202

RE: Project: 2207002 HOPE SCHOOL
Pace Project No.: 4077300

Dear D'Arcy Gravelle:
Enclosed are the analytical results for sample(s) received by the laboratory on May 04, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian Basten for
Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 2207002 HOPE SCHOOL
Pace Project No.: 4077300

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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Green Bay, WI 54302
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SAMPLE SUMMARY

Project: 2207002 HOPE SCHOOL
Pace Project No.: 4077300

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4077300001	**S-1**	Solid	05/03/13 09:00	05/04/13 08:15

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SAMPLE ANALYTE COUNT

Project: 2207002 HOPE SCHOOL
Pace Project No.: 4077300

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4077300001	**S-1**	EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	MAV	1

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ANALYTICAL RESULTS

Project: 2207002 HOPE SCHOOL
Pace Project No.: 4077300

Sample: S-1 **Lab ID: 4077300001** Collected: 05/03/13 09:00 Received: 05/04/13 08:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<51.3**	ug/kg	103	51.3	5	05/06/13 08:58	05/06/13 14:30	83-32-9	
Acenaphthylene	**<51.3**	ug/kg	103	51.3	5	05/06/13 08:58	05/06/13 14:30	208-96-8	
Anthracene	**22.0J**	ug/kg	103	10.5	5	05/06/13 08:58	05/06/13 14:30	120-12-7	
Benzo(a)anthracene	**<51.3**	ug/kg	103	51.3	5	05/06/13 08:58	05/06/13 14:30	56-55-3	
Benzo(a)pyrene	**<51.3**	ug/kg	103	51.3	5	05/06/13 08:58	05/06/13 14:30	50-32-8	
Benzo(b)fluoranthene	**17.9J**	ug/kg	103	14.8	5	05/06/13 08:58	05/06/13 14:30	205-99-2	
Benzo(g,h,i)perylene	**<51.3**	ug/kg	103	51.3	5	05/06/13 08:58	05/06/13 14:30	191-24-2	
Benzo(k)fluoranthene	**<51.3**	ug/kg	103	51.3	5	05/06/13 08:58	05/06/13 14:30	207-08-9	
Chrysene	**29.9J**	ug/kg	103	11.7	5	05/06/13 08:58	05/06/13 14:30	218-01-9	
Dibenz(a,h)anthracene	**<51.3**	ug/kg	103	51.3	5	05/06/13 08:58	05/06/13 14:30	53-70-3	
Fluoranthene	**71.7J**	ug/kg	103	51.3	5	05/06/13 08:58	05/06/13 14:30	206-44-0	
Fluorene	**<51.3**	ug/kg	103	51.3	5	05/06/13 08:58	05/06/13 14:30	86-73-7	
Indeno(1,2,3-cd)pyrene	**<51.3**	ug/kg	103	51.3	5	05/06/13 08:58	05/06/13 14:30	193-39-5	
1-Methylnaphthalene	**909**	ug/kg	103	46.8	5	05/06/13 08:58	05/06/13 14:30	90-12-0	
2-Methylnaphthalene	**2040**	ug/kg	103	9.6	5	05/06/13 08:58	05/06/13 14:30	91-57-6	
Naphthalene	**551**	ug/kg	103	19.3	5	05/06/13 08:58	05/06/13 14:30	91-20-3	
Phenanthrene	**123**	ug/kg	103	13.1	5	05/06/13 08:58	05/06/13 14:30	85-01-8	
Pyrene	**70.2J**	ug/kg	103	51.3	5	05/06/13 08:58	05/06/13 14:30	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	83	%	40-130		5	05/06/13 08:58	05/06/13 14:30	321-60-8	
Terphenyl-d14 (S)	75	%	40-130		5	05/06/13 08:58	05/06/13 14:30	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<7.3**	ug/kg	60.0	7.3	1	05/06/13 11:03	05/06/13 16:10	71-43-2	W
Bromobenzene	**<11.7**	ug/kg	60.0	11.7	1	05/06/13 11:03	05/06/13 16:10	108-86-1	W
Bromochloromethane	**<13.6**	ug/kg	60.0	13.6	1	05/06/13 11:03	05/06/13 16:10	74-97-5	W
Bromodichloromethane	**<9.3**	ug/kg	60.0	9.3	1	05/06/13 11:03	05/06/13 16:10	75-27-4	W
Bromoform	**<10.4**	ug/kg	60.0	10.4	1	05/06/13 11:03	05/06/13 16:10	75-25-2	W
Bromomethane	**<15.3**	ug/kg	60.0	15.3	1	05/06/13 11:03	05/06/13 16:10	74-83-9	W
n-Butylbenzene	**<13.4**	ug/kg	60.0	13.4	1	05/06/13 11:03	05/06/13 16:10	104-51-8	W
sec-Butylbenzene	**46.7J**	ug/kg	73.9	13.5	1	05/06/13 11:03	05/06/13 16:10	135-98-8	
tert-Butylbenzene	**<11.8**	ug/kg	60.0	11.8	1	05/06/13 11:03	05/06/13 16:10	98-06-6	W
Carbon tetrachloride	**<10.9**	ug/kg	60.0	10.9	1	05/06/13 11:03	05/06/13 16:10	56-23-5	W
Chlorobenzene	**<8.4**	ug/kg	60.0	8.4	1	05/06/13 11:03	05/06/13 16:10	108-90-7	W
Chloroethane	**<22.4**	ug/kg	60.0	22.4	1	05/06/13 11:03	05/06/13 16:10	75-00-3	W
Chloroform	**<13.0**	ug/kg	60.0	13.0	1	05/06/13 11:03	05/06/13 16:10	67-66-3	W
Chloromethane	**<12.8**	ug/kg	60.0	12.8	1	05/06/13 11:03	05/06/13 16:10	74-87-3	W
2-Chlorotoluene	**<11.1**	ug/kg	60.0	11.1	1	05/06/13 11:03	05/06/13 16:10	95-49-8	W
4-Chlorotoluene	**<16.5**	ug/kg	60.0	16.5	1	05/06/13 11:03	05/06/13 16:10	106-43-4	W
1,2-Dibromo-3-chloropropane	**<49.8**	ug/kg	250	49.8	1	05/06/13 11:03	05/06/13 16:10	96-12-8	W
Dibromochloromethane	**<7.0**	ug/kg	60.0	7.0	1	05/06/13 11:03	05/06/13 16:10	124-48-1	W
1,2-Dibromoethane (EDB)	**<19.4**	ug/kg	60.0	19.4	1	05/06/13 11:03	05/06/13 16:10	106-93-4	W
Dibromomethane	**<14.3**	ug/kg	60.0	14.3	1	05/06/13 11:03	05/06/13 16:10	74-95-3	W
1,2-Dichlorobenzene	**<15.9**	ug/kg	60.0	15.9	1	05/06/13 11:03	05/06/13 16:10	95-50-1	W
1,3-Dichlorobenzene	**<9.8**	ug/kg	60.0	9.8	1	05/06/13 11:03	05/06/13 16:10	541-73-1	W

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 2207002 HOPE SCHOOL
Pace Project No.: 4077300

Sample: S-1 **Lab ID: 4077300001** Collected: 05/03/13 09:00 Received: 05/04/13 08:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<14.2**	ug/kg	60.0	14.2	1	05/06/13 11:03	05/06/13 16:10	106-46-7	W
Dichlorodifluoromethane	**<24.6**	ug/kg	60.0	24.6	1	05/06/13 11:03	05/06/13 16:10	75-71-8	W
1,1-Dichloroethane	**<8.2**	ug/kg	60.0	8.2	1	05/06/13 11:03	05/06/13 16:10	75-34-3	W
1,2-Dichloroethane	**<13.3**	ug/kg	60.0	13.3	1	05/06/13 11:03	05/06/13 16:10	107-06-2	W
1,1-Dichloroethene	**<11.1**	ug/kg	60.0	11.1	1	05/06/13 11:03	05/06/13 16:10	75-35-4	W
cis-1,2-Dichloroethene	**<17.3**	ug/kg	60.0	17.3	1	05/06/13 11:03	05/06/13 16:10	156-59-2	W
trans-1,2-Dichloroethene	**<10.5**	ug/kg	60.0	10.5	1	05/06/13 11:03	05/06/13 16:10	156-60-5	W
1,2-Dichloropropane	**<17.3**	ug/kg	60.0	17.3	1	05/06/13 11:03	05/06/13 16:10	78-87-5	W
1,3-Dichloropropane	**<15.2**	ug/kg	60.0	15.2	1	05/06/13 11:03	05/06/13 16:10	142-28-9	W
2,2-Dichloropropane	**<17.2**	ug/kg	60.0	17.2	1	05/06/13 11:03	05/06/13 16:10	594-20-7	W
1,1-Dichloropropene	**<17.6**	ug/kg	60.0	17.6	1	05/06/13 11:03	05/06/13 16:10	563-58-6	W
cis-1,3-Dichloropropene	**<6.6**	ug/kg	60.0	6.6	1	05/06/13 11:03	05/06/13 16:10	10061-01-5	W
trans-1,3-Dichloropropene	**<10.3**	ug/kg	60.0	10.3	1	05/06/13 11:03	05/06/13 16:10	10061-02-6	W
Diisopropyl ether	**<10.5**	ug/kg	60.0	10.5	1	05/06/13 11:03	05/06/13 16:10	108-20-3	W
Ethylbenzene	**<8.9**	ug/kg	60.0	8.9	1	05/06/13 11:03	05/06/13 16:10	100-41-4	W
Hexachloro-1,3-butadiene	**<16.5**	ug/kg	60.0	16.5	1	05/06/13 11:03	05/06/13 16:10	87-68-3	W
Isopropylbenzene (Cumene)	**<10.6**	ug/kg	60.0	10.6	1	05/06/13 11:03	05/06/13 16:10	98-82-8	W
p-Isopropyltoluene	**79.7**	ug/kg	73.9	15.8	1	05/06/13 11:03	05/06/13 16:10	99-87-6	
Methylene Chloride	**<8.5**	ug/kg	60.0	8.5	1	05/06/13 11:03	05/06/13 16:10	75-09-2	W
Methyl-tert-butyl ether	**<9.7**	ug/kg	60.0	9.7	1	05/06/13 11:03	05/06/13 16:10	1634-04-4	L2,W
Naphthalene	**1360**	ug/kg	73.9	18.1	1	05/06/13 11:03	05/06/13 16:10	91-20-3	
n-Propylbenzene	**15.4J**	ug/kg	73.9	13.4	1	05/06/13 11:03	05/06/13 16:10	103-65-1	
Styrene	**<5.9**	ug/kg	60.0	5.9	1	05/06/13 11:03	05/06/13 16:10	100-42-5	W
1,1,1,2-Tetrachloroethane	**<9.9**	ug/kg	60.0	9.9	1	05/06/13 11:03	05/06/13 16:10	630-20-6	W
1,1,2,2-Tetrachloroethane	**<13.0**	ug/kg	60.0	13.0	1	05/06/13 11:03	05/06/13 16:10	79-34-5	W
Tetrachloroethene	**<13.4**	ug/kg	60.0	13.4	1	05/06/13 11:03	05/06/13 16:10	127-18-4	W
Toluene	**<15.5**	ug/kg	60.0	15.5	1	05/06/13 11:03	05/06/13 16:10	108-88-3	W
1,2,3-Trichlorobenzene	**<13.8**	ug/kg	60.0	13.8	1	05/06/13 11:03	05/06/13 16:10	87-61-6	W
1,2,4-Trichlorobenzene	**<17.4**	ug/kg	60.0	17.4	1	05/06/13 11:03	05/06/13 16:10	120-82-1	W
1,1,1-Trichloroethane	**<13.7**	ug/kg	60.0	13.7	1	05/06/13 11:03	05/06/13 16:10	71-55-6	W
1,1,2-Trichloroethane	**<18.6**	ug/kg	60.0	18.6	1	05/06/13 11:03	05/06/13 16:10	79-00-5	W
Trichloroethene	**<20.0**	ug/kg	60.0	20.0	1	05/06/13 11:03	05/06/13 16:10	79-01-6	W
Trichlorofluoromethane	**<15.2**	ug/kg	60.0	15.2	1	05/06/13 11:03	05/06/13 16:10	75-69-4	W
1,2,3-Trichloropropane	**<24.4**	ug/kg	60.0	24.4	1	05/06/13 11:03	05/06/13 16:10	96-18-4	W
1,2,4-Trimethylbenzene	**282**	ug/kg	73.9	11.7	1	05/06/13 11:03	05/06/13 16:10	95-63-6	
1,3,5-Trimethylbenzene	**20.2J**	ug/kg	73.9	16.5	1	05/06/13 11:03	05/06/13 16:10	108-67-8	
Vinyl chloride	**<10.8**	ug/kg	60.0	10.8	1	05/06/13 11:03	05/06/13 16:10	75-01-4	W
m&p-Xylene	**<25.6**	ug/kg	120	25.6	1	05/06/13 11:03	05/06/13 16:10	179601-23-1	W
o-Xylene	**108**	ug/kg	73.9	16.8	1	05/06/13 11:03	05/06/13 16:10	95-47-6	
Surrogates									
Dibromofluoromethane (S)	92	%	57-130		1	05/06/13 11:03	05/06/13 16:10	1868-53-7	
Toluene-d8 (S)	99	%	54-133		1	05/06/13 11:03	05/06/13 16:10	2037-26-5	
4-Bromofluorobenzene (S)	90	%	49-130		1	05/06/13 11:03	05/06/13 16:10	460-00-4	

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ANALYTICAL RESULTS

Project: 2207002 HOPE SCHOOL
Pace Project No.: 4077300

Sample: S-1 **Lab ID: 4077300001** Collected: 05/03/13 09:00 Received: 05/04/13 08:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.8**	%	0.10	0.10	1		05/04/13 13:02		

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QUALITY CONTROL DATA

Project: 2207002 HOPE SCHOOL
Pace Project No.: 4077300

QC Batch: MSV/19476
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 4077300001

METHOD BLANK: 784975
Matrix: Solid
Associated Lab Samples: 4077300001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<9.9	60.0	05/06/13 12:20	
1,1,1-Trichloroethane	ug/kg	<13.7	60.0	05/06/13 12:20	
1,1,2,2-Tetrachloroethane	ug/kg	<13.0	60.0	05/06/13 12:20	
1,1,2-Trichloroethane	ug/kg	<18.6	60.0	05/06/13 12:20	
1,1-Dichloroethane	ug/kg	<8.2	60.0	05/06/13 12:20	
1,1-Dichloroethene	ug/kg	<11.1	60.0	05/06/13 12:20	
1,1-Dichloropropene	ug/kg	<17.6	60.0	05/06/13 12:20	
1,2,3-Trichlorobenzene	ug/kg	<13.8	60.0	05/06/13 12:20	
1,2,3-Trichloropropane	ug/kg	<24.4	60.0	05/06/13 12:20	
1,2,4-Trichlorobenzene	ug/kg	<17.4	60.0	05/06/13 12:20	
1,2,4-Trimethylbenzene	ug/kg	<9.5	60.0	05/06/13 12:20	
1,2-Dibromo-3-chloropropane	ug/kg	<49.8	250	05/06/13 12:20	
1,2-Dibromoethane (EDB)	ug/kg	<19.4	60.0	05/06/13 12:20	
1,2-Dichlorobenzene	ug/kg	<15.9	60.0	05/06/13 12:20	
1,2-Dichloroethane	ug/kg	<13.3	60.0	05/06/13 12:20	
1,2-Dichloropropane	ug/kg	<17.3	60.0	05/06/13 12:20	
1,3,5-Trimethylbenzene	ug/kg	<13.4	60.0	05/06/13 12:20	
1,3-Dichlorobenzene	ug/kg	<9.8	60.0	05/06/13 12:20	
1,3-Dichloropropane	ug/kg	<15.2	60.0	05/06/13 12:20	
1,4-Dichlorobenzene	ug/kg	<14.2	60.0	05/06/13 12:20	
2,2-Dichloropropane	ug/kg	<17.2	60.0	05/06/13 12:20	
2-Chlorotoluene	ug/kg	<11.1	60.0	05/06/13 12:20	
4-Chlorotoluene	ug/kg	<16.5	60.0	05/06/13 12:20	
Benzene	ug/kg	<7.3	60.0	05/06/13 12:20	
Bromobenzene	ug/kg	<11.7	60.0	05/06/13 12:20	
Bromochloromethane	ug/kg	<13.6	60.0	05/06/13 12:20	
Bromodichloromethane	ug/kg	<9.3	60.0	05/06/13 12:20	
Bromoform	ug/kg	<10.4	60.0	05/06/13 12:20	
Bromomethane	ug/kg	<15.3	60.0	05/06/13 12:20	
Carbon tetrachloride	ug/kg	<10.9	60.0	05/06/13 12:20	
Chlorobenzene	ug/kg	<8.4	60.0	05/06/13 12:20	
Chloroethane	ug/kg	<22.4	60.0	05/06/13 12:20	
Chloroform	ug/kg	<13.0	60.0	05/06/13 12:20	
Chloromethane	ug/kg	<12.8	60.0	05/06/13 12:20	
cis-1,2-Dichloroethene	ug/kg	<17.3	60.0	05/06/13 12:20	
cis-1,3-Dichloropropene	ug/kg	<6.6	60.0	05/06/13 12:20	
Dibromochloromethane	ug/kg	<7.0	60.0	05/06/13 12:20	
Dibromomethane	ug/kg	<14.3	60.0	05/06/13 12:20	
Dichlorodifluoromethane	ug/kg	<24.6	60.0	05/06/13 12:20	
Diisopropyl ether	ug/kg	<10.5	60.0	05/06/13 12:20	
Ethylbenzene	ug/kg	<8.9	60.0	05/06/13 12:20	
Hexachloro-1,3-butadiene	ug/kg	<16.5	60.0	05/06/13 12:20	
Isopropylbenzene (Cumene)	ug/kg	<10.6	60.0	05/06/13 12:20	

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QUALITY CONTROL DATA

Project: 2207002 HOPE SCHOOL
Pace Project No.: 4077300

METHOD BLANK: 784975 Matrix: Solid

Associated Lab Samples: 4077300001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/kg	<25.6	120	05/06/13 12:20	
Methyl-tert-butyl ether	ug/kg	<9.7	60.0	05/06/13 12:20	
Methylene Chloride	ug/kg	21.8J	60.0	05/06/13 12:20	
n-Butylbenzene	ug/kg	<13.4	60.0	05/06/13 12:20	
n-Propylbenzene	ug/kg	<10.9	60.0	05/06/13 12:20	
Naphthalene	ug/kg	<14.7	60.0	05/06/13 12:20	
o-Xylene	ug/kg	<13.7	60.0	05/06/13 12:20	
p-Isopropyltoluene	ug/kg	<12.8	60.0	05/06/13 12:20	
sec-Butylbenzene	ug/kg	<10.9	60.0	05/06/13 12:20	
Styrene	ug/kg	<5.9	60.0	05/06/13 12:20	
tert-Butylbenzene	ug/kg	<11.8	60.0	05/06/13 12:20	
Tetrachloroethene	ug/kg	<13.4	60.0	05/06/13 12:20	
Toluene	ug/kg	<15.5	60.0	05/06/13 12:20	
trans-1,2-Dichloroethene	ug/kg	<10.5	60.0	05/06/13 12:20	
trans-1,3-Dichloropropene	ug/kg	<10.3	60.0	05/06/13 12:20	
Trichloroethene	ug/kg	<20.0	60.0	05/06/13 12:20	
Trichlorofluoromethane	ug/kg	<15.2	60.0	05/06/13 12:20	
Vinyl chloride	ug/kg	<10.8	60.0	05/06/13 12:20	
4-Bromofluorobenzene (S)	%	95	49-130	05/06/13 12:20	
Dibromofluoromethane (S)	%	96	57-130	05/06/13 12:20	
Toluene-d8 (S)	%	107	54-133	05/06/13 12:20	

LABORATORY CONTROL SAMPLE & LCSD: 784976 784977

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2350	2420	94	97	70-130	3	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2340	2490	93	100	70-130	6	20	
1,1,2-Trichloroethane	ug/kg	2500	2370	2450	95	98	70-130	3	20	
1,1-Dichloroethane	ug/kg	2500	2290	2270	92	91	70-130	1	20	
1,1-Dichloroethene	ug/kg	2500	2290	2260	92	90	64-130	1	20	
1,2,4-Trichlorobenzene	ug/kg	2500	2760	2910	110	117	68-130	5	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2190	2270	87	91	50-150	4	20	
1,2-Dibromoethane (EDB)	ug/kg	2500	2300	2330	92	93	70-130	2	20	
1,2-Dichlorobenzene	ug/kg	2500	2490	2520	100	101	70-130	1	20	
1,2-Dichloroethane	ug/kg	2500	2240	2260	90	90	70-130	1	20	
1,2-Dichloropropane	ug/kg	2500	2450	2470	98	99	70-130	1	20	
1,3-Dichlorobenzene	ug/kg	2500	2460	2530	99	101	70-130	3	20	
1,4-Dichlorobenzene	ug/kg	2500	2380	2470	95	99	70-130	4	20	
Benzene	ug/kg	2500	2250	2250	90	90	70-130	0	20	
Bromodichloromethane	ug/kg	2500	2230	2300	89	92	70-130	3	20	
Bromoform	ug/kg	2500	2300	2510	92	100	63-130	9	20	
Bromomethane	ug/kg	2500	2250	2170	90	87	41-142	4	20	
Carbon tetrachloride	ug/kg	2500	2250	2250	90	90	70-130	0	20	
Chlorobenzene	ug/kg	2500	2410	2370	96	95	70-130	2	20	
Chloroethane	ug/kg	2500	2030	2060	81	83	57-130	2	20	

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QUALITY CONTROL DATA

Project: 2207002 HOPE SCHOOL
Pace Project No.: 4077300

LABORATORY CONTROL SAMPLE & LCSD: 784976 784977

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/kg	2500	2270	2250	91	90	70-130	1	20	
Chloromethane	ug/kg	2500	2120	2100	85	84	57-130	1	20	
cis-1,2-Dichloroethene	ug/kg	2500	2260	2300	91	92	70-130	2	20	
cis-1,3-Dichloropropene	ug/kg	2500	2140	2220	85	89	70-130	4	20	
Dibromochloromethane	ug/kg	2500	2120	2240	85	89	70-130	5	20	
Dichlorodifluoromethane	ug/kg	2500	1940	1870	78	75	31-150	4	20	
Ethylbenzene	ug/kg	2500	2500	2500	100	100	65-137	0	20	
Isopropylbenzene (Cumene)	ug/kg	2500	2350	2330	94	93	70-130	1	20	
m&p-Xylene	ug/kg	5000	4890	4980	98	100	64-139	2	20	
Methyl-tert-butyl ether	ug/kg	2500	1610	1690	64	68	69-130	5	20	L0
Methylene Chloride	ug/kg	2500	2340	2290	94	92	70-130	2	20	
o-Xylene	ug/kg	2500	2320	2310	93	93	63-135	0	20	
Styrene	ug/kg	2500	2280	2250	91	90	69-130	1	20	
Tetrachloroethene	ug/kg	2500	2490	2520	100	101	70-130	1	20	
Toluene	ug/kg	2500	2440	2470	97	99	70-130	1	20	
trans-1,2-Dichloroethene	ug/kg	2500	1750	1750	70	70	70-130	0	20	
trans-1,3-Dichloropropene	ug/kg	2500	2280	2340	91	94	70-130	2	20	
Trichloroethene	ug/kg	2500	2510	2500	100	100	70-130	0	20	
Trichlorofluoromethane	ug/kg	2500	2050	2020	82	81	50-150	2	20	
Vinyl chloride	ug/kg	2500	2370	2260	95	90	57-130	4	20	
4-Bromofluorobenzene (S)	%				100	96	49-130			
Dibromofluoromethane (S)	%				102	98	57-130			
Toluene-d8 (S)	%				106	103	54-133			

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QUALITY CONTROL DATA

Project: 2207002 HOPE SCHOOL
Pace Project No.: 4077300

QC Batch: OEXT/18124
QC Batch Method: EPA 3546
Associated Lab Samples: 4077300001

Analysis Method: EPA 8270 by SIM
Analysis Description: 8270/3546 MSSV PAH by SIM

METHOD BLANK: 784846 Matrix: Solid
Associated Lab Samples: 4077300001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<7.6	16.7	05/06/13 10:31	
2-Methylnaphthalene	ug/kg	<1.6	16.7	05/06/13 10:31	
Acenaphthene	ug/kg	<8.3	16.7	05/06/13 10:31	
Acenaphthylene	ug/kg	<8.3	16.7	05/06/13 10:31	
Anthracene	ug/kg	<1.7	16.7	05/06/13 10:31	
Benzo(a)anthracene	ug/kg	<8.3	16.7	05/06/13 10:31	
Benzo(a)pyrene	ug/kg	<8.3	16.7	05/06/13 10:31	
Benzo(b)fluoranthene	ug/kg	<2.4	16.7	05/06/13 10:31	
Benzo(g,h,i)perylene	ug/kg	<8.3	16.7	05/06/13 10:31	
Benzo(k)fluoranthene	ug/kg	<8.3	16.7	05/06/13 10:31	
Chrysene	ug/kg	<1.9	16.7	05/06/13 10:31	
Dibenz(a,h)anthracene	ug/kg	<8.3	16.7	05/06/13 10:31	
Fluoranthene	ug/kg	<8.3	16.7	05/06/13 10:31	
Fluorene	ug/kg	<8.3	16.7	05/06/13 10:31	
Indeno(1,2,3-cd)pyrene	ug/kg	<8.3	16.7	05/06/13 10:31	
Naphthalene	ug/kg	<3.1	16.7	05/06/13 10:31	
Phenanthrene	ug/kg	<2.1	16.7	05/06/13 10:31	
Pyrene	ug/kg	<8.3	16.7	05/06/13 10:31	
2-Fluorobiphenyl (S)	%	92	40-130	05/06/13 10:31	
Terphenyl-d14 (S)	%	82	40-130	05/06/13 10:31	

LABORATORY CONTROL SAMPLE: 784847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	282	85	47-130	
2-Methylnaphthalene	ug/kg	333	259	78	48-130	
Acenaphthene	ug/kg	333	272	81	55-130	
Acenaphthylene	ug/kg	333	276	83	55-130	
Anthracene	ug/kg	333	285	86	66-130	
Benzo(a)anthracene	ug/kg	333	268	80	55-130	
Benzo(a)pyrene	ug/kg	333	288	86	56-130	
Benzo(b)fluoranthene	ug/kg	333	286	86	53-130	
Benzo(g,h,i)perylene	ug/kg	333	288	87	51-130	
Benzo(k)fluoranthene	ug/kg	333	290	87	52-130	
Chrysene	ug/kg	333	299	90	58-130	
Dibenz(a,h)anthracene	ug/kg	333	291	87	55-130	
Fluoranthene	ug/kg	333	271	81	62-130	
Fluorene	ug/kg	333	278	83	58-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	287	86	54-130	
Naphthalene	ug/kg	333	231	69	41-130	
Phenanthrene	ug/kg	333	269	81	60-130	

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QUALITY CONTROL DATA

Project: 2207002 HOPE SCHOOL
Pace Project No.: 4077300

LABORATORY CONTROL SAMPLE: 784847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	297	89	51-130	
2-Fluorobiphenyl (S)	%			87	40-130	
Terphenyl-d14 (S)	%			88	40-130	

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QUALITY CONTROL DATA

Project: 2207002 HOPE SCHOOL
Pace Project No.: 4077300

QC Batch: PMST/8404
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 4077300001

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 784760

Parameter	Units	4077315001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	43.0	42.5	1	10	

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QUALIFIERS

Project: 2207002 HOPE SCHOOL
Pace Project No.: 4077300

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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BATCH QUALIFIERS

Batch: MSV/19477

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

W Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2207002 HOPE SCHOOL
Pace Project No.: 4077300

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4077300001	**S-1**	EPA 3546	OEXT/18124	EPA 8270 by SIM	MSSV/5632
4077300001	**S-1**	EPA 5035/5030B	MSV/19476	EPA 8260	MSV/19477
4077300001	**S-1**	ASTM D2974-87	PMST/8404		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

√MW 4077300

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CHAIN OF CUSTODY

(Please Print Clearly)	
Company Name:	Key Engineering Group
Branch/Location:	Milwaukee
Project Contact:	D'Arcy Gravelle
Phone:	414 224 8300
Project Number:	2207002
Project Name:	Hope School
Project State:	WI
Sampled By (Print):	Mitch Banach
Sampled By (Sign):	
PO #:	Regulatory Program:

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Same
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water, B = Biota, DW = Drinking Water, C = Charcoal, GW = Ground Water, O = Oil, SW = Surface Water, S = Soil, WW = Waste Water, SI = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOC + dry wt	Analyses Requested: PAH	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	N					
					F	A					
001	S-1	5/3	9:00	S			X	X		1-40mlF, 1-4ozag^A, 1-4ozp^A	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed: 5/6/13

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	5/3/13 10:15	Mary Fannin	5/3/13 12:35
Mary Fannin	5/3/13 1330		
CS Logistics	5/4/13 0815	E Helwig	Pace GB 5/4/13 0815

PACE Project No. 4077300

Receipt Temp = ROI °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

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Green Bay, WI 543(

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Sample Condition Upon Receipt

Client Name: Key Eng. Project # 4077300

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other GLogistics

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A Type of Ice: (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☐ no

Person examining contents:
Date: 5/4/13
Initials: EMH

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7. 5/6/13
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☐Yes ☐No ☑N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: MAT for DM **Date:** 5.14.13

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(920)469-2436

May 10, 2013

D'Arcy Gravelle
KEY ENGINEERING GROUP, LTD.
735 N. Water St
STE 1000
Milwaukee, WI 53202

RE: Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

Dear D'Arcy Gravelle:
Enclosed are the analytical results for sample(s) received by the laboratory on May 03, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan Milewsky

dan.milewsky@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Green Bay Certification IDs
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Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4077216001	**S-1**	Solid	05/01/13 16:30	05/03/13 09:05

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SAMPLE ANALYTE COUNT

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4077216001	**S-1**	EPA 8082	BLM	10	PASI-G
		EPA 6010	DLB	10	PASI-G
		EPA 7470	CMS	1	PASI-G
		EPA 8270	ARO	16	PASI-G
		EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
		EPA 1010	DEY	1	PASI-G
		SW-846 7.3.4.2	AJM	1	PASI-K
		EPA 9040	DEY	1	PASI-G
		EPA 9095	DEY	1	PASI-G
		SM 2710F	DEY	1	PASI-G
		EPA 420.1	KEO	1	PASI-M
		SW-846 7.3.3.2	AJM	1	PASI-K

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ANALYTICAL RESULTS

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

Sample: S-1 **Lab ID: 4077216001** Collected: 05/01/13 16:30 Received: 05/03/13 09:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3541								
PCB-1016 (Aroclor 1016)	**<31.3**	ug/kg	62.7	31.3	1	05/06/13 12:00	05/06/13 21:50	12674-11-2	
PCB-1221 (Aroclor 1221)	**<31.3**	ug/kg	62.7	31.3	1	05/06/13 12:00	05/06/13 21:50	11104-28-2	
PCB-1232 (Aroclor 1232)	**<31.3**	ug/kg	62.7	31.3	1	05/06/13 12:00	05/06/13 21:50	11141-16-5	
PCB-1242 (Aroclor 1242)	**<31.3**	ug/kg	62.7	31.3	1	05/06/13 12:00	05/06/13 21:50	53469-21-9	
PCB-1248 (Aroclor 1248)	**<31.3**	ug/kg	62.7	31.3	1	05/06/13 12:00	05/06/13 21:50	12672-29-6	
PCB-1254 (Aroclor 1254)	**<31.3**	ug/kg	62.7	31.3	1	05/06/13 12:00	05/06/13 21:50	11097-69-1	
PCB-1260 (Aroclor 1260)	**<31.3**	ug/kg	62.7	31.3	1	05/06/13 12:00	05/06/13 21:50	11096-82-5	
PCB, Total	**<31.3**	ug/kg	62.7	31.3	1	05/06/13 12:00	05/06/13 21:50	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	40-130		1	05/06/13 12:00	05/06/13 21:50	877-09-8	
Decachlorobiphenyl (S)	86	%	48-130		1	05/06/13 12:00	05/06/13 21:50	2051-24-3	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 05/06/13 00:00								
Arsenic	**<0.12**	mg/L	0.25	0.12	1	05/07/13 09:20	05/08/13 12:16	7440-38-2	
Barium	**<1.2**	mg/L	2.5	1.2	1	05/07/13 09:20	05/08/13 12:16	7440-39-3	
Cadmium	**<0.0025**	mg/L	0.0050	0.0025	1	05/07/13 09:20	05/08/13 12:16	7440-43-9	
Chromium	**<0.12**	mg/L	0.25	0.12	1	05/07/13 09:20	05/08/13 12:16	7440-47-3	
Copper	**<0.12**	mg/L	0.25	0.12	1	05/07/13 09:20	05/08/13 12:16	7440-50-8	
Lead	**0.022J**	mg/L	0.038	0.015	1	05/07/13 09:20	05/08/13 12:16	7439-92-1	
Nickel	**<0.12**	mg/L	0.25	0.12	1	05/07/13 09:20	05/08/13 12:16	7440-02-0	
Selenium	**<0.12**	mg/L	0.25	0.12	1	05/07/13 09:20	05/08/13 12:16	7782-49-2	
Silver	**<0.12**	mg/L	0.25	0.12	1	05/07/13 09:20	05/08/13 12:16	7440-22-4	
Zinc	**0.57**	mg/L	0.25	0.12	1	05/07/13 09:20	05/08/13 12:16	7440-66-6	1q
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
	Leachate Method/Date: EPA 1311; 05/06/13 00:00								
Mercury	**<0.10**	ug/L	0.20	0.10	1	05/07/13 11:12	05/08/13 10:03	7439-97-6	M0
8270 MSSV TCLP Sep Funnel	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
	Leachate Method/Date: EPA 1311; 05/06/13 00:00								
1,4-Dichlorobenzene	**<8.6**	ug/L	50.0	8.6	1	05/09/13 12:00	05/09/13 14:22	106-46-7	
2,4-Dinitrotoluene	**<8.0**	ug/L	50.0	8.0	1	05/09/13 12:00	05/09/13 14:22	121-14-2	
Hexachloro-1,3-butadiene	**<6.6**	ug/L	100	6.6	1	05/09/13 12:00	05/09/13 14:22	87-68-3	
Hexachlorobenzene	**<11.1**	ug/L	50.0	11.1	1	05/09/13 12:00	05/09/13 14:22	118-74-1	
Hexachloroethane	**<5.8**	ug/L	50.0	5.8	1	05/09/13 12:00	05/09/13 14:22	67-72-1	
2-Methylphenol(o-Cresol)	**<9.7**	ug/L	50.0	9.7	1	05/09/13 12:00	05/09/13 14:22	95-48-7	
3&4-Methylphenol(m&p Cresol)	**<7.7**	ug/L	50.0	7.7	1	05/09/13 12:00	05/09/13 14:22		
Nitrobenzene	**<13.7**	ug/L	50.0	13.7	1	05/09/13 12:00	05/09/13 14:22	98-95-3	
Pentachlorophenol	**<10.8**	ug/L	100	10.8	1	05/09/13 12:00	05/09/13 14:22	87-86-5	
Pyridine	**<14.3**	ug/L	50.0	14.3	1	05/09/13 12:00	05/09/13 14:22	110-86-1	
2,4,5-Trichlorophenol	**<10**	ug/L	50.0	10	1	05/09/13 12:00	05/09/13 14:22	95-95-4	
2,4,6-Trichlorophenol	**<10.7**	ug/L	50.0	10.7	1	05/09/13 12:00	05/09/13 14:22	88-06-2	

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ANALYTICAL RESULTS

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

Sample: S-1 **Lab ID: 4077216001** Collected: 05/01/13 16:30 Received: 05/03/13 09:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV TCLP Sep Funnel	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
	Leachate Method/Date: EPA 1311; 05/06/13 00:00								
Surrogates									
Nitrobenzene-d5 (S)	80	%	59-130		1	05/09/13 12:00	05/09/13 14:22	4165-60-0	
2-Fluorobiphenyl (S)	77	%	60-130		1	05/09/13 12:00	05/09/13 14:22	321-60-8	
Phenol-d6 (S)	32	%	19-130		1	05/09/13 12:00	05/09/13 14:22	13127-88-3	
2,4,6-Tribromophenol (S)	112	%	34-143		1	05/09/13 12:00	05/09/13 14:22	118-79-6	
8260 MSV TCLP	Analytical Method: EPA 8260 Preparation Method: EPA 1311								
Benzene	**<5.0**	ug/L	10.0	5.0	10	05/06/13 00:00	05/07/13 22:02	71-43-2	
2-Butanone (MEK)	**<27.0**	ug/L	200	27.0	10	05/06/13 00:00	05/07/13 22:02	78-93-3	
Carbon tetrachloride	**<3.7**	ug/L	10.0	3.7	10	05/06/13 00:00	05/07/13 22:02	56-23-5	
Chlorobenzene	**<3.6**	ug/L	10.0	3.6	10	05/06/13 00:00	05/07/13 22:02	108-90-7	
Chloroform	**<6.9**	ug/L	50.0	6.9	10	05/06/13 00:00	05/07/13 22:02	67-66-3	
1,2-Dichloroethane	**<4.8**	ug/L	10.0	4.8	10	05/06/13 00:00	05/07/13 22:02	107-06-2	
1,1-Dichloroethene	**<4.3**	ug/L	10.0	4.3	10	05/06/13 00:00	05/07/13 22:02	75-35-4	
Tetrachloroethene	**<4.7**	ug/L	10.0	4.7	10	05/06/13 00:00	05/07/13 22:02	127-18-4	
Trichloroethene	**<4.3**	ug/L	10.0	4.3	10	05/06/13 00:00	05/07/13 22:02	79-01-6	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10	05/06/13 00:00	05/07/13 22:02	75-01-4	
Surrogates									
Toluene-d8 (S)	105	%	55-137		10	05/06/13 00:00	05/07/13 22:02	2037-26-5	
4-Bromofluorobenzene (S)	99	%	43-137		10	05/06/13 00:00	05/07/13 22:02	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		10	05/06/13 00:00	05/07/13 22:02	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.2**	%	0.10	0.10	1		05/04/13 12:31		
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010								
Flashpoint	**>210**	deg F			1		05/06/13 10:05		
Reactive Sulfide	Analytical Method: SW-846 7.3.4.2								
Sulfide, Reactive	**10.1J**	mg/kg	100		1		05/08/13 11:30		
9040 pH	Analytical Method: EPA 9040								
pH	**7.5**	Std. Units	0.10	0.010	1		05/07/13 11:10		2q,H6
9095 Paint Filter Liquid Test	Analytical Method: EPA 9095								
Free Liquids	**Pass**	no units			1		05/07/13 10:27		
Specific Gravity	Analytical Method: SM 2710F								
Specific Gravity	**1.9**	no units			1		05/07/13 12:05		
Phenolics, Total Recoverable	Analytical Method: EPA 420.1								
Phenolics, Total Recoverable	**<15.0**	ug/L	50.0	15.0	1		05/09/13 11:54		

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ANALYTICAL RESULTS

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

Sample: S-1 **Lab ID: 4077216001** Collected: 05/01/13 16:30 Received: 05/03/13 09:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
733C S Reactive Cyanide	Analytical Method: SW-846 7.3.3.2								
Cyanide, Reactive	**0.0070J**	mg/kg	0.025	0.0052	1		05/08/13 10:37		B

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

QC Batch: MERP/3632
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 4077216001

METHOD BLANK: 785511 Matrix: Water
Associated Lab Samples: 4077216001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.10	0.20	05/08/13 09:58	

LABORATORY CONTROL SAMPLE: 785512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 785513 785514

Parameter	Units	4077216001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.10	5	5	6.0	6.0	120	119	85-115	1	20	M0

MATRIX SPIKE SAMPLE: 785515

Parameter	Units	4077332001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.10	5	6.0	120	85-115	M0

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

QC Batch: MPRP/8440
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Associated Lab Samples: 4077216001

METHOD BLANK: 785526
Matrix: Water
Associated Lab Samples: 4077216001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	<0.025	0.050	05/07/13 21:06	
Barium	mg/L	<0.25	0.50	05/07/13 21:06	
Cadmium	mg/L	<0.00050	0.0010	05/07/13 21:06	
Chromium	mg/L	<0.025	0.050	05/07/13 21:06	
Copper	mg/L	<0.025	0.050	05/07/13 21:06	
Lead	mg/L	<0.0030	0.0075	05/07/13 21:06	
Nickel	mg/L	<0.025	0.050	05/07/13 21:06	
Selenium	mg/L	<0.025	0.050	05/07/13 21:06	
Silver	mg/L	<0.025	0.050	05/07/13 21:06	
Zinc	mg/L	<0.025	0.050	05/07/13 21:06	

LABORATORY CONTROL SAMPLE: 785527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.5	0.52	104	80-120	
Barium	mg/L	.5	0.52	103	80-120	
Cadmium	mg/L	.5	0.52	104	80-120	
Chromium	mg/L	.5	0.53	106	80-120	
Copper	mg/L	.5	0.52	104	80-120	
Lead	mg/L	.5	0.53	107	80-120	
Nickel	mg/L	.5	0.53	106	80-120	
Selenium	mg/L	.5	0.54	108	80-120	
Silver	mg/L	.25	0.26	105	80-120	
Zinc	mg/L	.5	0.54	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 785528 785529

Parameter	Units	4077110001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	<0.12	2.5	2.5	2.6	2.6	102	101	75-125	0	20	
Barium	mg/L	<1.2	2.5	2.5	3.6	3.5	100	96	75-125	3	20	
Cadmium	mg/L	<0.0025	2.5	2.5	2.6	2.6	103	102	75-125	1	20	
Chromium	mg/L	<0.12	2.5	2.5	2.6	2.6	103	102	75-125	1	20	
Copper	mg/L	<0.12	2.5	2.5	2.6	2.5	103	102	75-125	1	20	
Lead	mg/L	<0.015	2.5	2.5	2.6	2.6	104	103	75-125	1	20	
Nickel	mg/L	<0.12	2.5	2.5	2.6	2.6	103	102	75-125	1	20	
Selenium	mg/L	<0.12	2.5	2.5	2.6	2.6	104	105	75-125	1	20	
Silver	mg/L	<0.12	1.2	1.2	1.3	1.3	104	104	75-125	0	20	
Zinc	mg/L	0.24J	2.5	2.5	2.9	2.8	105	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

MATRIX SPIKE SAMPLE: 785530

Parameter	Units	4077332001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	<0.12	2.5	2.4	96	75-125	
Barium	mg/L	<1.2	2.5	2.9	100	75-125	
Cadmium	mg/L	<0.0025	2.5	2.4	97	75-125	
Chromium	mg/L	<0.12	2.5	2.4	97	75-125	
Copper	mg/L	<0.12	2.5	2.4	97	75-125	
Lead	mg/L	<0.015	2.5	2.5	99	75-125	
Nickel	mg/L	<0.12	2.5	2.4	96	75-125	
Selenium	mg/L	<0.12	2.5	2.4	98	75-125	
Silver	mg/L	<0.12	1.2	1.3	100	75-125	
Zinc	mg/L	0.75	2.5	3.2	98	75-125	

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

QC Batch: MSV/19485 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 4077216001

METHOD BLANK: 785301 Matrix: Water
Associated Lab Samples: 4077216001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	<0.43	1.0	05/07/13 17:14	
1,2-Dichloroethane	ug/L	<0.48	1.0	05/07/13 17:14	
2-Butanone (MEK)	ug/L	<2.7	20.0	05/07/13 17:14	
Benzene	ug/L	<0.50	1.0	05/07/13 17:14	
Carbon tetrachloride	ug/L	<0.37	1.0	05/07/13 17:14	
Chlorobenzene	ug/L	<0.36	1.0	05/07/13 17:14	
Chloroform	ug/L	<0.69	5.0	05/07/13 17:14	
Tetrachloroethene	ug/L	<0.47	1.0	05/07/13 17:14	
Trichloroethene	ug/L	<0.43	1.0	05/07/13 17:14	
Vinyl chloride	ug/L	<0.18	1.0	05/07/13 17:14	
4-Bromofluorobenzene (S)	%	97	43-137	05/07/13 17:14	
Dibromofluoromethane (S)	%	105	70-130	05/07/13 17:14	
Toluene-d8 (S)	%	104	55-137	05/07/13 17:14	

LABORATORY CONTROL SAMPLE & LCSD: 785302 785303

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/L	50	48.2	47.6	96	95	70-130	1	20	
1,2-Dichloroethane	ug/L	50	52.3	50.5	105	101	70-144	4	20	
Benzene	ug/L	50	45.5	44.3	91	89	70-137	3	20	
Carbon tetrachloride	ug/L	50	52.1	50.8	104	102	70-154	3	20	
Chlorobenzene	ug/L	50	52.0	50.3	104	101	70-130	3	20	
Chloroform	ug/L	50	48.7	47.3	97	95	70-130	3	20	
Tetrachloroethene	ug/L	50	57.1	53.1	114	106	70-130	7	20	
Trichloroethene	ug/L	50	53.5	50.1	107	100	70-130	7	20	
Vinyl chloride	ug/L	50	49.8	48.9	100	98	61-143	2	20	
4-Bromofluorobenzene (S)	%				113	113	43-137			
Dibromofluoromethane (S)	%				97	98	70-130			
Toluene-d8 (S)	%				106	104	55-137			

MATRIX SPIKE SAMPLE: 785304

Parameter	Units	4076968001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	<4.3	500	456	91	70-130	
1,2-Dichloroethane	ug/L	<4.8	500	483	97	70-146	
2-Butanone (MEK)	ug/L	<27.0		<27.0			
Benzene	ug/L	<5.0	500	423	85	70-137	
Carbon tetrachloride	ug/L	<3.7	500	501	100	70-154	
Chlorobenzene	ug/L	<3.6	500	478	96	70-130	
Chloroform	ug/L	<6.9	500	455	91	70-130	

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

MATRIX SPIKE SAMPLE: 785304

Parameter	Units	4076968001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	<4.7	500	511	102	70-130	
Trichloroethene	ug/L	<4.3	500	485	97	70-130	
Vinyl chloride	ug/L	<1.8	500	456	91	59-144	
4-Bromofluorobenzene (S)	%				112	43-137	
Dibromofluoromethane (S)	%				97	70-130	
Toluene-d8 (S)	%				103	55-137	

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

QC Batch: OEXT/18125
QC Batch Method: EPA 3541
Analysis Method: EPA 8082
Analysis Description: 8082 GCS PCB
Associated Lab Samples: 4077216001

METHOD BLANK: 784850 Matrix: Solid
Associated Lab Samples: 4077216001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<25.0	50.0	05/06/13 19:09	
PCB-1221 (Aroclor 1221)	ug/kg	<25.0	50.0	05/06/13 19:09	
PCB-1232 (Aroclor 1232)	ug/kg	<25.0	50.0	05/06/13 19:09	
PCB-1242 (Aroclor 1242)	ug/kg	<25.0	50.0	05/06/13 19:09	
PCB-1248 (Aroclor 1248)	ug/kg	<25.0	50.0	05/06/13 19:09	
PCB-1254 (Aroclor 1254)	ug/kg	<25.0	50.0	05/06/13 19:09	
PCB-1260 (Aroclor 1260)	ug/kg	<25.0	50.0	05/06/13 19:09	
Decachlorobiphenyl (S)	%	95	48-130	05/06/13 19:09	
Tetrachloro-m-xylene (S)	%	83	40-130	05/06/13 19:09	

LABORATORY CONTROL SAMPLE: 784851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<25.0			
PCB-1221 (Aroclor 1221)	ug/kg		<25.0			
PCB-1232 (Aroclor 1232)	ug/kg		<25.0			
PCB-1242 (Aroclor 1242)	ug/kg		<25.0			
PCB-1248 (Aroclor 1248)	ug/kg		<25.0			
PCB-1254 (Aroclor 1254)	ug/kg		<25.0			
PCB-1260 (Aroclor 1260)	ug/kg	500	411	82	70-130	
Decachlorobiphenyl (S)	%			94	48-130	
Tetrachloro-m-xylene (S)	%			76	40-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 784852 784853

Parameter	Units	4077315001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<175			<175	<175					31	
PCB-1221 (Aroclor 1221)	ug/kg	<175			<175	<175					31	
PCB-1232 (Aroclor 1232)	ug/kg	<175			<175	<175					31	
PCB-1242 (Aroclor 1242)	ug/kg	2630			2720	2650				3	31	
PCB-1248 (Aroclor 1248)	ug/kg	<175			<175	<175					31	
PCB-1254 (Aroclor 1254)	ug/kg	<175			<175	<175					31	
PCB-1260 (Aroclor 1260)	ug/kg	<175	877	877	688	667	79	76	40-149	3	31	
Decachlorobiphenyl (S)	%						65	65	48-130			
Tetrachloro-m-xylene (S)	%						86	84	40-130			

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

QC Batch: OEXT/18156
QC Batch Method: EPA 3510
Associated Lab Samples: 4077216001

Analysis Method: EPA 8270
Analysis Description: 8270 TCLP MSSV

METHOD BLANK: 786619 Matrix: Water

Associated Lab Samples: 4077216001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	<1.7	10.0	05/09/13 12:43	
2,4,5-Trichlorophenol	ug/L	<2.0	10.0	05/09/13 12:43	
2,4,6-Trichlorophenol	ug/L	<2.1	10.0	05/09/13 12:43	
2,4-Dinitrotoluene	ug/L	<1.6	10.0	05/09/13 12:43	
2-Methylphenol(o-Cresol)	ug/L	<1.9	10.0	05/09/13 12:43	
3&4-Methylphenol(m&p Cresol)	ug/L	<1.5	10.0	05/09/13 12:43	
Hexachloro-1,3-butadiene	ug/L	<1.3	20.0	05/09/13 12:43	
Hexachlorobenzene	ug/L	<2.2	10.0	05/09/13 12:43	
Hexachloroethane	ug/L	<1.2	10.0	05/09/13 12:43	
Nitrobenzene	ug/L	<2.7	10.0	05/09/13 12:43	
Pentachlorophenol	ug/L	<2.2	20.0	05/09/13 12:43	
Pyridine	ug/L	<2.9	10.0	05/09/13 12:43	
2,4,6-Tribromophenol (S)	%	93	34-143	05/09/13 12:43	
2-Fluorobiphenyl (S)	%	79	60-130	05/09/13 12:43	
Nitrobenzene-d5 (S)	%	79	59-130	05/09/13 12:43	
Phenol-d6 (S)	%	33	19-130	05/09/13 12:43	

LABORATORY CONTROL SAMPLE: 786620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	39.4	79	53-130	
2,4,5-Trichlorophenol	ug/L	50	51.3	103	70-130	
2,4,6-Trichlorophenol	ug/L	50	48.7	97	70-130	
2,4-Dinitrotoluene	ug/L	50	55.3	111	69-134	
2-Methylphenol(o-Cresol)	ug/L	50	45.5	91	48-130	
3&4-Methylphenol(m&p Cresol)	ug/L	50	41.4	83	43-130	
Hexachloro-1,3-butadiene	ug/L	50	44.5	89	53-130	
Hexachlorobenzene	ug/L	50	52.8	106	59-130	
Hexachloroethane	ug/L	50	38.1	76	47-130	
Nitrobenzene	ug/L	50	44.8	90	66-130	
Pentachlorophenol	ug/L	50	50.3	101	54-130	
Pyridine	ug/L	50	17.8	36	10-130	
2,4,6-Tribromophenol (S)	%			106	34-143	
2-Fluorobiphenyl (S)	%			85	60-130	
Nitrobenzene-d5 (S)	%			89	59-130	
Phenol-d6 (S)	%			44	19-130	

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

MATRIX SPIKE SAMPLE: 786621

Parameter	Units	4077110001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	<8.6	250	204	81	50-130	
2,4,5-Trichlorophenol	ug/L	<10	250	233	93	65-130	
2,4,6-Trichlorophenol	ug/L	<10.7	250	231	92	64-130	
2,4-Dinitrotoluene	ug/L	<8.0	250	265	106	49-136	
2-Methylphenol(o-Cresol)	ug/L	19.1J	250	187	67	33-130	
3&4-Methylphenol(m&p Cresol)	ug/L	17.1J	250	181	66	35-130	
Hexachloro-1,3-butadiene	ug/L	<6.6	250	218	87	48-130	
Hexachlorobenzene	ug/L	<11.1	250	265	106	57-130	
Hexachloroethane	ug/L	<5.8	250	204	82	45-130	
Nitrobenzene	ug/L	<13.7	250	211	84	62-130	
Pentachlorophenol	ug/L	<10.8	250	243	97	10-149	
Pyridine	ug/L	<14.3	250	80.4	32	10-130	
2,4,6-Tribromophenol (S)	%				100	34-143	
2-Fluorobiphenyl (S)	%				85	60-130	
Nitrobenzene-d5 (S)	%				85	59-130	
Phenol-d6 (S)	%				37	19-130	

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

QC Batch: PMST/8402
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 4077216001

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 784756

Parameter	Units	4077155001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.2	7.2	1	10	

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

QC Batch: WET/14908
QC Batch Method: EPA 1010
Analysis Method: EPA 1010
Analysis Description: 1010 Flash Point, Closed Cup
Associated Lab Samples: 4077216001

LABORATORY CONTROL SAMPLE: 784884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Flashpoint	deg F		81.2			

LABORATORY CONTROL SAMPLE: 784885

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Flashpoint	deg F		82.6			

SAMPLE DUPLICATE: 785100

Parameter	Units	4077278002 Result	Dup Result	RPD	Max RPD	Qualifiers
Flashpoint	deg F	>210	>210			

SAMPLE DUPLICATE: 785102

Parameter	Units	4077281001 Result	Dup Result	RPD	Max RPD	Qualifiers
Flashpoint	deg F	>210	>210			

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

QC Batch: WET/41138
QC Batch Method: SW-846 7.3.4.2
Analysis Method: SW-846 7.3.4.2
Analysis Description: Reactive Sulfide
Associated Lab Samples: 4077216001

METHOD BLANK: 1182694 Matrix: Solid
Associated Lab Samples: 4077216001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Reactive	mg/kg	0.0J	100	05/08/13 11:30	

LABORATORY CONTROL SAMPLE: 1182695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Reactive	mg/kg	200	198	99	77-110	

SAMPLE DUPLICATE: 1182696

Parameter	Units	4077216001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Reactive	mg/kg	10.1J	10.1J		30	

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

QC Batch: WET/14947
QC Batch Method: EPA 9040
Associated Lab Samples: 4077216001

Analysis Method: EPA 9040
Analysis Description: 9040 pH

SAMPLE DUPLICATE: 786789

Parameter	Units	4077216001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	7.5	7.6	1	20	

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

QC Batch: WET/14919
QC Batch Method: EPA 9095
Analysis Method: EPA 9095
Analysis Description: 9095 PAINT FILTER LIQUID TEST
Associated Lab Samples: 4077216001

SAMPLE DUPLICATE: 785409

Parameter	Units	4077281001 Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids	no units	Pass	Pass			

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

QC Batch: WET/14922
QC Batch Method: SM 2710F
Analysis Method: SM 2710F
Analysis Description: Spec.Gravity
Associated Lab Samples: 4077216001

SAMPLE DUPLICATE: 785478

Parameter	Units	4077254001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Gravity	no units	0.968	0.99	2		

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

QC Batch: WETA/14771
QC Batch Method: EPA 420.1
Associated Lab Samples: 4077216001

Analysis Method: EPA 420.1
Analysis Description: 420.1 Phenolics

METHOD BLANK: 1424850 Matrix: Water
Associated Lab Samples: 4077216001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	<15.0	50.0	05/09/13 11:27	

LABORATORY CONTROL SAMPLE: 1424851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	ug/L	1000	996	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1424999 1425000

Parameter	Units	10227803001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phenolics, Total Recoverable	ug/L	91.3	1000	1000	1050	1000	96	91	90-110	5	20	

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QUALITY CONTROL DATA

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

QC Batch: WETA/24589 Analysis Method: SW-846 7.3.3.2
QC Batch Method: SW-846 7.3.3.2 Analysis Description: 733C Reactive Cyanide
Associated Lab Samples: 4077216001

METHOD BLANK: 1182714 Matrix: Solid
Associated Lab Samples: 4077216001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Reactive	mg/kg	0.0085J	0.025	05/08/13 10:34	

LABORATORY CONTROL SAMPLE: 1182715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide, Reactive	mg/kg	.5	0.49	97	71-123	

SAMPLE DUPLICATE: 1182716

Parameter	Units	4077216001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide, Reactive	mg/kg	0.0070J	0.0075J		23	

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QUALIFIERS

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

1q	Analyte was detected in the associated leach blank at a concentration of 0.17 mg/L.
2q	Due to the sample matrix, DI water was added to this sample on a one to one basis and the sample was stirred before analysis.
B	Analyte was detected in the associated method blank.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2207002 HOPE FORTIS
Pace Project No.: 4077216

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4077216001	**S-1**	EPA 3541	OEXT/18125	EPA 8082	GCSV/9497
4077216001	**S-1**	EPA 3010	MPRP/8440	EPA 6010	ICP/7483
4077216001	**S-1**	EPA 7470	MERP/3632	EPA 7470	MERC/4508
4077216001	**S-1**	EPA 3510	OEXT/18156	EPA 8270	MSSV/5646
4077216001	**S-1**	EPA 1311	TCLP/2929	EPA 8260	MSV/19485
4077216001	**S-1**	ASTM D2974-87	PMST/8402		
4077216001	**S-1**	EPA 1010	WET/14908		
4077216001	**S-1**	SW-846 7.3.4.2	WET/41138		
4077216001	**S-1**	EPA 9040	WET/14947		
4077216001	**S-1**	EPA 9095	WET/14919		
4077216001	**S-1**	SM 2710F	WET/14922		
4077216001	**S-1**	EPA 420.1	WETA/14771		
4077216001	**S-1**	SW-846 7.3.3.2	WETA/24589		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Need ASAP 4077216

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Key Engineering
Branch/Location:	
Project Contact:	D'Arcy Granville
Phone:	(414) 224-8300 ext 21
Project Number:	2207002
Project Name:	Hope Flats
Project State:	WI
Sampled By (Print):	JMK
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	D'Arcy Granville
Mail To Company:	Key Engineering
Mail To Address:	735 N Water St, Ste 810 Milwaukee, WI 53202
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	SAME
Invoice To Phone:	(414) 224-8300 ext 21

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
					N	N	Protocol B		
001	S-1	5/1/13	4:30	S					6-40zag A

Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	
Transmit Prelim Rush Results by (complete what you want):	
Email #1:	dgranville@keyengineering.com
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Dilmyhr	5/2/13 9:18am	Mary Jannin	5/2/13 10:57
Mary Jannin	5/2/13 1630		
CS Logistics	5/3/13 0905	Allen	5/3/13 0905

PACE Project No. 4077216

Receipt Temp = R01 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27 Jun2006)

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Sample Condition Upon Receipt

Client Name: Key Eng Project # 4077216

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other CS Logistics

Tracking #: _____

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used NA Type of Ice: (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: R01 Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 5/3/13
Initials: AMG

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7. ASAP AMG 5/3/13
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☑No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☐Yes ☐No ☑N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: cet for DM **Date:** 5/3/13

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	92

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	T206703
EDUCATIONAL ENTERPRISES, INC. 3601 N. PORT WASHINGTON RD MILWAUKEE, WI 53212	EDUCATIONAL ENTERPRISES, INC. 3601 N. PORT WASHINGTON RD MILWAUKEE, WI 53212 MILWAUKEE COUNTY	WMNA	B. State Generator's ID: 18.53
4. Generator's Phone: 262-542-3546			

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
Schneider/Rans		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
Orchard Ridge RDF W124 N9355 Boundary Road Menomonee Falls, WI 53051		H. State Facility Phone: 262-253-8620

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Contaminated soil WM Profile # 810117253WI					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Jacob Rios				

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
Jacob Rios		5	29	13
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Wayne Arndt/Waste		5	29	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	81

3. Generator's Mailing Address:
EDUCATIONAL ENTERPRISES, INC.
3601 N. PORT WASHINGTON RD
MILWAUKEE, WI 53212

4. Generator's Phone 262-542-9546

Generator's Site Address (If different than mailing):
EDUCATIONAL ENTERPRISES, INC.
3601 N. PORT WASHINGTON RD
MILWAUKEE, WI 53212
MILWAUKEE COUNTY

A. Manifest Number WMNA T206702

B. State Generator's ID 20.14

5. Transporter 1 Company Name RAMS #81

6. US EPA ID Number

C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Orchard Ridge RDF
W124 N9355 Boundary Road
Menomonee Falls, WI 53051

10. US EPA ID Number

G. State Facility ID
H. State Facility Phone 262-253-8620

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Contaminated soil WM Profile # ~~BIO117253WI~~					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell | Level
Grid

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
	Jim Fabe			

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Jim Fabe	Jim Fabe	5	28	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Wayne Ondl		5	29	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	92

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	T206705
EDUCATIONAL ENTERPRISES, INC. 3601 N. PORT WASHINGTON RD MILWAUKEE, WI 53212	EDUCATIONAL ENTERPRISES, INC. 3601 N. PORT WASHINGTON RD MILWAUKEE, WI 53212 MILWAUKEE COUNTY	WMNA	B. State Generator's ID: 12.47
4. Generator's Phone: 262-542-3546			

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
Schneider/Kamps		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
Orchard Ridge RDF W124 N9355 Boundary Road Menomonee Falls, WI 53051		H. State Facility Phone: 262-253-8620

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Contaminated soil WM Profile # BIO117253WI					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # | EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Jason Kuiper		5	29	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		5	29	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	1

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	T206704
EDUCATIONAL ENTERPRISES, INC. 3601 N. PORT WASHINGTON RD MILWAUKEE, WI 53212	EDUCATIONAL ENTERPRISES, INC. 3601 N. PORT WASHINGTON RD MILWAUKEE, WI 53212 MILWAUKEE COUNTY	WMNA	
4. Generator's Phone 262-542-9546		B. State Generator's ID	12-28

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address Orchard Ridge RDF W124 N9355 Boundary Road Menomonee Falls, WI 53051	10. US EPA ID Number	G. State Facility ID
		H. State Facility Phone 262-253-8620

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Contaminated soil WM Profile # BIO117253WI					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Daniel Maldonado		5	29	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

~~Printed Name~~	Signature	Month	Day	Year
		5	29	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

SOIL BORING LOG

Project: Hope Christian School-Fortis
3601 N. Port Washington Road
Milwaukee, Wisconsin 53212

Borehole Identification: SP-1
Project No.: 13020
Date of Boring: 6/20/13
Field Representative: T. Anderson

VISUAL SOIL CLASSIFICATION Ground Surface Elevation: ft	DEPTH (feet)	SAMPLE No.	N	Qp (tsf)	Qu (tsf)	MC %	Qs (tsf)	REMARKS
Note A:								
Brown Silty CLAY, little Sand	5							
	10	1-SS	7	-	-	-	-	
Grayish Brown Silty CLAY, little Sand		2-SS	10	-	-	-	-	
TERMINATION DEPTH OF BORING: 12' Boring dry during advancement of the augers and upon completetion	15							
Note A: 0"-8" +/- Gravel	20							
	25							
	30							
	35							
	40							

Lines of Demarcation represent an **approximate** boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes, such as fill-to-natural soil zone transitions.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☑ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
MILWAUKEE		

Lattitude / Longitude (Degrees and Minutes) 43 · 04 · 58.4 'N / 87 · 55 · 4.4 'W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SW	NE	8	7 N	22 ☑ E ☐ W

or Gov't Lot #

Well Street Address: 3601 N. PORT WASHINGTON ROAD

Well City, Village or Town	Well ZIP Code
MILWAUKEE	53212

Subdivision Name: Lot #

Reason For Removal From Service: ABANDONMENT
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: HOPE CHRISTIAN SCHOOL- FORTIS
Facility ID (FID or PWS): 341156970
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: EEI REAL ESTATE HOLDINGS FORTIS LLC
Mailing Address of Present Owner: 2120 PEWAUKEE ROAD #250

City of Present Owner	State	ZIP Code
WAUKESHA	WI	53188

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well SP-1
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 06/20/2013
If a Well Construction Report is available, please attach.

Construction Type:
☑ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (specify):

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8	

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	DRY

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☑ N/A
Liner(s) removed?	☐ Yes	☐ No	☑ N/A
Screen removed?	☐ Yes	☐ No	☑ N/A
Casing left in place?	☐ Yes	☐ No	☑ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☑ N/A
Did sealing material rise to surface?	☑ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☑ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☑ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☑ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☑ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" BENTONITE CHIPS	Surface	12	3 BAGS

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
UNITED ENGINEERING CONSULTANTS		06/20/2013

Street or Route	Telephone Number
16237 W. RYERSON ROAD	(262) 785-1447

City	State	ZIP Code
NEW BERLIN	WI	53151

Signature of Person Doing Work: Timothy J. Anderson
Date Signed: 6/20/2013

DNR Use Only

Date Received	Noted By

Comments:

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

Timothy Anderson
United Engineering Consultants, Inc.
16237 W. Ryerson Road
New Berlin, WI 53151

July 02, 2013

RE: Hope Fortis

Lab Orders:
13060723

Dear Timothy Anderson:

Enclosed are the analytical reports for the EMT Lab Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me at 847-967-6666.

Sincerely,

Eric Jensen
Project Manager

Approved by,

Marilyn Krueding
Laboratory Director

This Report Contains 6 pages

State of Illinois, NELAC Accredited Lab. No. 100256
State of Wisconsin, WDNR Accredited Lab No. 999888890

ENVIRONMENTAL
MONITORING AND
TECHNOLOGIES, INC.

8100 North Austin • Morton Grove, IL 60053-3203
847.967.6666 • 800.246.0663 • fax: 847.967.6735 • www.emt.com

CLIENT: United Engineering Consultants, Inc.

Project: Hope Fortis

Lab Order: 13060723

Date: *7/2/2013*

CASE NARRATIVE

Unless otherwise noted, samples were analyzed using the methods outlined in the following references:
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

Unless otherwise noted, all method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Sample results relate only to the analytes of interest tested and to the sample received at the laboratory.

All results are reported on a wet weight basis, unless otherwise noted. Dry weight adjusted results, reporting limits, method detection limits and dilution factors are indicated by the notation "dry" in the Units column. If present, a dilution factor will adjust the method detection limits and reporting limits.

The test results contained in this report meet all of the requirements of NELAC. Accreditation by the State of Illinois or Wisconsin is not an endorsement or a guarantee of the validity of data generated. For specific information regarding EMT's scope of accreditation , please contact your EMT project manager.

The Reporting Limit listed on the Report of Laboratory Analysis is EMT's reporting limit for the analyte reported. For most test methods this reporting limit is primarily based upon the lowest point in the calibration curve.

Analyst's initials of "OUT" indicate that the analyte was analyzed by a subcontracted laboratory.

Method References:
SW=USEPA, Test Methods for Evaluating Solid Waste, SW-846.
E=USEPA Methods for the Determination of Inorganic Substances in Environmental Samples; Methods for Chemical Analysis of Water and Wastes; Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, App A; methods for the Determination of Metals in Environmental Samples; Methods for the Determination of Organic Compounds in Drinking Water.
SM= APHA, Standard Methods for the Examination of Water and Wastewater.
D=ASTM, Annual Book of Standards

Batch numbers starting with a letter indicate an analytical batch while those that are exculsively numerals indicate a preparation batch.

ENVIRONMENTAL
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Report of Laboratory Analysis

CLIENT: United Engineering Consultants, Inc.
Lab Order: 13060723
Project: Hope Fortis
Lab ID: 13060723-01

Client Sample ID: SP-1 8'-9'
Report Date: 7/2/2013
Collection Date: 6/20/2013
Matrix: Soil

Analyses	Result	EMT Reporting Limit	Qual	Units	MDL	Date Analyzed	Batch	DF	Analyst
Percent Moisture		**Method:**		**SM2540G**					
Percent Moisture	15.9	0.0300		% (Percent)	0.0150	6/24/13 10:35	R187608	1.00	TB2
Solids, Total		**Method:**		**SM2540G**					
Total Solids (Percent)	84.1	0.03		% (Percent)	0.0100	6/24/13 10:35	R187609	1.00	TB2
Polynuclear Aromatic Hydrocarbons		**Method:**		**SW8310 / SW3540C**					
1-Methylnaphthalene	24.	29.1	J	µg/Kg-dry	11.6	6/24/13	82760	1.00	MNN
2-Methylnaphthalene	12.	29.1	J	µg/Kg-dry	8.22	6/24/13	82760	1.00	MNN
Acenaphthene	< 29.1	29.1		µg/Kg-dry	9.22	6/24/13	82760	1.00	MNN
Acenaphthylene	< 146.	146.		µg/Kg-dry	12.8	6/24/13	82760	1.00	MNN
Anthracene	< 29.1	29.1		µg/Kg-dry	6.44	6/24/13	82760	1.00	MNN
Benz(a)anthracene	< 29.1	29.1		µg/Kg-dry	6.82	6/24/13	82760	1.00	MNN
Benzo(a)pyrene	< 29.1	29.1		µg/Kg-dry	7.16	6/24/13	82760	1.00	MNN
Benzo(b)fluoranthene	< 29.1	29.1		µg/Kg-dry	8.09	6/24/13	82760	1.00	MNN
Benzo(g,h,i)perylene	< 29.1	29.1		µg/Kg-dry	10.9	6/24/13	82760	1.00	MNN
Benzo(k)fluoranthene	< 29.1	29.1		µg/Kg-dry	7.00	6/24/13	82760	1.00	MNN
Chrysene	< 29.1	29.1		µg/Kg-dry	6.82	6/24/13	82760	1.00	MNN
Dibenz(a,h)anthracene	< 29.1	29.1		µg/Kg-dry	6.18	6/24/13	82760	1.00	MNN
Fluoranthene	< 29.1	29.1		µg/Kg-dry	7.80	6/24/13	82760	1.00	MNN
Fluorene	< 29.1	29.1		µg/Kg-dry	8.29	6/24/13	82760	1.00	MNN
Indeno(1,2,3-cd)pyrene	< 29.1	29.1		µg/Kg-dry	9.40	6/24/13	82760	1.00	MNN
Naphthalene	< 29.1	29.1		µg/Kg-dry	7.24	6/24/13	82760	1.00	MNN
Phenanthrene	10.	29.1	J	µg/Kg-dry	8.07	6/24/13	82760	1.00	MNN
Pyrene	< 29.1	29.1		µg/Kg-dry	7.37	6/24/13	82760	1.00	MNN
Surrogates:									
4-Terphenyl-d14	96.8	33-133		%REC	0	6/24/13	82760	1.00	MNN

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

Report of Laboratory Analysis

CLIENT:	United Engineering Consultants, Inc.	**Client Sample ID:**	SP-1 11'-12'
Lab Order:	13060723	**Report Date:**	7/2/2013
Project:	Hope Fortis	**Collection Date:**	6/20/2013
Lab ID:	13060723-02	**Matrix:**	Soil

Analyses	Result	EMT Reporting Limit	Qual	Units	MDL	Date Analyzed	Batch	DF	Analyst
Percent Moisture		**Method:**		**SM2540G**					
Percent Moisture	14.1	0.0300		% (Percent)	0.0150	6/24/13 10:35	R187608	1.00	TB2
Solids, Total		**Method:**		**SM2540G**					
Total Solids (Percent)	84.3	0.03		% (Percent)	0.0100	6/24/13 10:35	R187609	1.00	TB2
Polynuclear Aromatic Hydrocarbons		**Method:**		**SW8310 / SW3540C**					
1-Methylnaphthalene	< 29.	29.		µg/Kg-dry	11.6	6/24/13	82760	1.00	MNN
2-Methylnaphthalene	< 29.	29.		µg/Kg-dry	8.20	6/24/13	82760	1.00	MNN
Acenaphthene	< 29.	29.		µg/Kg-dry	9.19	6/24/13	82760	1.00	MNN
Acenaphthylene	< 145.	145.		µg/Kg-dry	12.8	6/24/13	82760	1.00	MNN
Anthracene	< 29.	29.		µg/Kg-dry	6.42	6/24/13	82760	1.00	MNN
Benz(a)anthracene	< 29.	29.		µg/Kg-dry	6.80	6/24/13	82760	1.00	MNN
Benzo(a)pyrene	< 29.	29.		µg/Kg-dry	7.14	6/24/13	82760	1.00	MNN
Benzo(b)fluoranthene	< 29.	29.		µg/Kg-dry	8.07	6/24/13	82760	1.00	MNN
Benzo(g,h,i)perylene	< 29.	29.		µg/Kg-dry	10.9	6/24/13	82760	1.00	MNN
Benzo(k)fluoranthene	< 29.	29.		µg/Kg-dry	6.98	6/24/13	82760	1.00	MNN
Chrysene	< 29.	29.		µg/Kg-dry	6.80	6/24/13	82760	1.00	MNN
Dibenz(a,h)anthracene	< 29.	29.		µg/Kg-dry	6.16	6/24/13	82760	1.00	MNN
Fluoranthene	< 29.	29.		µg/Kg-dry	7.78	6/24/13	82760	1.00	MNN
Fluorene	< 29.	29.		µg/Kg-dry	8.27	6/24/13	82760	1.00	MNN
Indeno(1,2,3-cd)pyrene	< 29.	29.		µg/Kg-dry	9.37	6/24/13	82760	1.00	MNN
Naphthalene	< 29.	29.		µg/Kg-dry	7.22	6/24/13	82760	1.00	MNN
Phenanthrene	< 29.	29.		µg/Kg-dry	8.04	6/24/13	82760	1.00	MNN
Pyrene	< 29.	29.		µg/Kg-dry	7.35	6/24/13	82760	1.00	MNN
Surrogates:									
4-Terphenyl-d14	98.0	33-133		%REC	0	6/24/13	82760	1.00	MNN

Qualifiers:

B - Analyte detected in the associated Method Blank
E - Estimated
H - Holding Time Exceeded
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
J - Analyte detected below quantitation limits

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Client: United Engineering Consultants, Inc.
Project: UEC_WDNR

DATES REPORT

7/2/2013

Lab Order: 13060723

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date	Batch ID
13060723-01A	SP-1 8'-9'	6/20/13	Soil	Percent Moisture			6/24/13 10:35	R187608
				Polynuclear Aromatic Hydrocarbons		6/23/13 17:38	6/24/13	82760
				Solids, Total (TS)			6/24/13 10:35	R187609
13060723-02A	SP-1 11'-12'			Percent Moisture			6/24/13 10:35	R187608
				Polynuclear Aromatic Hydrocarbons		6/23/13 17:38	6/24/13	82760
				Solids, Total (TS)			6/24/13 10:35	R187609

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Chain of Custody Record

EJ

TURNARAOUND TIME:
- ☐ RUSH ___ day turnaround
- ☒ ROUTINE

Due Date: ___-___-___ COC #: 119750

Company: UEC
Address: 16237 W. RYERSON ROAD
NEW BERLIN, WI 53151

Phone #: (262) 785-1447 Fax #: (262) 706-4400
P.O #: Proj #: ___-___
Client Contact: TIMOTHY J. ANDERSON
Project ID / Location: HOPE FORTIS

Sample Type:
1. Waste Water 4. Sludge 7. Groundwater (filtered)
2. Drinking Water 5. Oil 8. Other
3. Soil 6. Groundwater

Container Type:
P - Plastic V - VOC Vial O - Other
G - Glass B - Tedlar Bag

Preservative:
1. None 4. NaOH 7. Zn Ace
2. H_2SO_4 5. HCl 8. Other
3. HNO_3 6. MeOH

Analyses

EMT USE ONLY

EMT WORKORDER # 1306[illegible]

Sample I.D	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	pH	Temp.	Preservation Field	Preservation Lab	PAH	TOTAL SOLIDS	
SP-1 8'-9'	3	40Z	G	1	TA	6/20/13	AM			1		✓	✓	-01A
SP-1 11'-12'	↓	↓	↓	↓	↓	↓	↓			1		✓	✓	-02A

Relinquished By: Timothy J. Anderson	Date: 6-21-13 Time: 9:35 AM	Received By: DHK	Date: 6 21 13 Time: 9:35	EMT USE ONLY Client Code: UEC	☒ SAMPLE RECEIVED ON ICE
Relinquished By: DHK	Date: 6-21-13 Time: 14:01	Received By:	Date: 6-21-13 Time: 14:09	EMT Project I.D. UEC WDNR	☒ TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt) 14°C
Relinquished By:	Date: 6-21-13 Time: 15:40	Received For Lab By:	Date: 6-21-13 Time: 15:40	Jar Lot No.	EMT SAMPLE RETURN POLICY ON BACK

SPECIAL INSTRUCTIONS: