



Infrastructure, environment, buildings

TRANSMITTAL LETTER

To: Ms. Victoria Stovall
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212-0436



ARCADIS, Inc.
126 N. Jefferson Street
Suite 400
Milwaukee
Wisconsin 53202
Tel 414 276 7742
Fax 414 276 7603

From: Brian Maillet

Date: 10 February 2010

Subject: Former Hoffman's Valet Dry Cleaners, Wauwatosa, WI, Closure Activities, BRRTS# 02-41-307576

ARCADIS Project No.: WI000943.0003

ENVIRONMENT

Action: 112
Comment: Interim Action

Action: 213
SSDS installation

We are sending you:

Attached Under Separate Cover Via the Following Items:

- Shop Drawings, Prints, Other, Plans, Samples, Specifications, Copy of Letter, Change Order, Reports

Table with 6 columns: Copies, Date, Drawing No., Rev., Description, Action*

Action*

- A Approved, AN Approved As Noted, AS As Requested, Other, CR Correct and Resubmit, F File, FA For Approval, Resubmit Copies, Return Copies, Review and Comment

Mailing Method

- U.S. Postal Service 1st Class, Certified/Registered Mail, Other, Courier/Hand Delivery, United Parcel Service (UPS), FedEx Priority Overnight, FedEx Standard Overnight, FedEx 2-Day Delivery, FedEx Economy



Pamela Mylotta
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212-0436

Subject:

Scope of Work and Cost Estimate for Closure Activities, 7215 West Center Street,
Wauwatosa, Wisconsin
BRRTS: 02-41-307576

Dear Ms. Mylotta:

On August 17, 2009, ARCADIS submitted a letter summarizing the results of soil sampling activities completed in May 2009. At the time of the letter, ARCADIS had made multiple attempts to obtain access to complete vapor sampling at the west adjacent (Johnson) property and to complete both soil and vapor sampling at the eastern adjacent (Viruet) property.

In October 2009, WDNR was able to contact Juan Viruet, the owner of the eastern adjacent property, and ARCADIS was granted access in November 2009. ARCADIS was also granted access in October 2009 to collect a vapor sample from the Johnson property.

This letter presents the results of the sampling activities at the adjacent properties. The investigation activities completed to date indicate that limited impacts are present on the subject property and adjacent properties. ARCADIS proposes to address the identified impacts through engineering controls, including a subslab depressurization system installed at the subject property that will mitigate the potential vapor intrusion pathway. A scope of work and cost estimate for installing the subslab depressurization system and completing subsequent air sampling are included in this letter. The work plan was prepared in accordance with ch. NR 169 (Dry Cleaner Environmental Response Program [DERP]). Costs associated with this investigation are eligible for reimbursement under the DERP.

Investigation Data

Consistent with our previous discussions, this letter simply transmits the collected investigation data for your review to reduce reporting costs. The field activities for

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ENVIRONMENT

Date:

February 10, 2010

Contact:

Brian Maillet
Ed Buc

Phone:

414.276.7742

Email:

bmaillet@arcadis-us.com
ebuc@arcadis-us.com

Our ref:

WI001109.0003

the supplemental investigation were completed in November 2009. These activities included:

- Collection of one subslab soil gas sample (SS-1) on the Johnson property and one subslab soil gas sample (SS-2) on the Viruet property to assess soil vapor conditions.
- Advancement of two Geoprobe borings (GP-111 and GP-112) on the Viruet property to further define potential offsite impacts in the sand seam.

The attached information presents the results of the supplemental investigation. Figure 1 depicts the soil gas sample and boring locations. Table 1 summarizes the soil analytical results. No chlorinated hydrocarbons were detected in soil collected from the Viruet property. In addition, no tetrachloroethene (PCE) or trichloroethene (TCE) were found at levels above the Table 3C Screening Value presented in the United States Environmental Protection Agency's Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway in the vapor sample collected from the Viruet property. Both PCE and TCE were detected above the screening values in the vapor sample collected from the Johnson property. Table 2 summarizes the subslab soil vapor analytical results.

Conclusions and Recommendations

The following are conclusions and recommendations from this investigation:

- Soils impacted with chlorinated hydrocarbons are limited to the subject property.
- Soil vapor impacted with chlorinated hydrocarbons is present beneath the subject property and may have migrated to the western adjacent property.

Previous investigations also found that the extent of groundwater impacts was also limited to the subject property.

The investigation results indicate that active soil or groundwater remediation is not warranted. Engineering and institutional controls, coupled with natural attenuation, should be sufficient to address the identified impacts. ARCADIS has developed a strategy to obtain site closure based on potential exposure pathways:

- A subslab depressurization system installed at the subject property will mitigate potential vapor intrusion into the building on the subject property and adjacent properties.
- Natural attenuation to manage the residual soil and groundwater constituents in place.
- Listing of the subject property on the WDNR Geographic Information System (GIS) of closed sites.

Proposed Scope of Work

A request for closure was submitted in 2005 and outlined the use of natural attenuation and the WDNR GIS database of closed sites. ARCADIS has developed the following scope of work for implementing vapor mitigation and obtaining final closure:

- Install a subslab depressurization system at the subject property.
- Collect two quarterly ambient air samples at the subject property and the Johnson property to evaluate the effectiveness of the system.
- Submittal of a letter report summarizing field activities and results with a recommendation for additional work or site closure.

Additional information regarding each task is provided in the following sections.

Installation of Subslab Depressurization System

To mitigate potential future risk to air quality related to non-dry cleaning operations at the former Hoffman Cleaners facility, ARCADIS will install a subslab depressurization system. The system installed in the former Hoffman Cleaners facility would be considered an 'interim action' under DERP and would also create a vapor capture zone to mitigate potential vapor exposure at the Johnson property. The subslab depressurization system would consist of 4-inch schedule 40 polyvinyl chloride ventilation pipe connected to the existing sump and vented above the finished roof under the power of a vapor ventilation suction fan secured on the outside of the

building. The subslab depressurization system at the facility would begin operating once installed.

Evaluation of System Effectiveness

The effectiveness of the system would be evaluated through the collection of two quarterly rounds of ambient air samples from the Johnson building. It is understood that if vapor levels are below the Table 3C Screening Values previously discussed, the system will be deemed adequate as a control for the adjacent space. Continual operation and maintenance of the subslab depressurization system at the Valet Cleaners facility would be part of site closure.

Reporting

Based on the results of the evaluation of the subslab depressurization system, ARCADIS will prepare a letter report outlining the scope of work completed during this evaluation, the procedures followed in the field, and a summary of the results. If the evaluation findings are favorable, ARCADIS will re-submit for site closure in accordance with NR 726 and will include a revised site closure packet. A scope of work for closure activities, including revision of the GIS packet and well abandonment, will be included in the letter report.

Project Schedule

ARCADIS will begin work immediately following receipt of written authorization to proceed from the WDNR.

Estimated Costs

ARCADIS will conduct the additional scope of work for an estimated cost of \$13,169. Table 3 includes a breakdown of the project costs for the proposed work and the unit rates and estimates of hours to be worked by ARCADIS. In addition, Table 3 also presents unit rates and the estimated number of units (i.e., number of samples for analysis) for the subcontracted services. Included with this proposal are bids from two subcontractors for the installation of a subslab depressurization system.

Closing

ARCADIS appreciates your assistance with this project, and is looking forward to receiving Site closure. If the additional scope of work and associated costs are acceptable, please provide us with authorization to proceed. If you have any questions or require additional information, please contact us at your earliest convenience.

Sincerely,

ARCADIS



Brian J. Maillet
Project Scientist



Edmund A. Buc, PE
Senior Engineer

Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID	SSL		SSL	GP-1	GP-2	GP-101		GP-102		GP-103	
Sample Depth (ft bls)	SSL	Vapor	Groundwater	6-8	4-6	7-11	11-15	4-8	12-16	8-12	12-16
Sample Date	Ingestion	Inhalation	Protection	02/07/02	02/07/02	09/12/02	09/12/02	09/12/02	09/12/02	09/12/02	09/12/02
Property Owner				Hoffman	Hoffman	Hoffman	Hoffman	Hoffman	Hoffman	Hoffman	Hoffman
VOCs											
cis-1,2-Dichloroethene	156,000	1,300,000	27	53	<10	<25	<25	<25	<25	<25	<25
Ethylbenzene	--	--	2,900	<10	<10	<25	<25	<25	<25	<25	<25
Fluorotrichloromethane	4,690,000	410,000	9,200	NA	NA	<25	<25	<25	<25	<25	<25
Methylene Chloride	8,520	2,700	0.98	21 Q	14 Q	<25	<25	<25	<25	<25	<25
Naphthalene	313,000	68,000	340	NA	NA	50 Q	<25	<25	<25	<25	<25
Tetrachloroethene	1,230	2,100	4.1	51	240	<25	<25	150	<25	400	<25
Xylenes, Total	--	--	4,100	<20	<20	<50	<50	<50	<50	<50	<50

Constituent concentrations are reported in micrograms per kilogram ($\mu\text{g}/\text{kg}$).

 Concentration exceeds the Soil Screening Level for the protection of groundwater.

Bold Concentration exceeds the Soil Screening Level for vapor inhalation and ingestion.

ft bls Feet below land surface.

ID Identification.

NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

VOCs Volatile organic compounds.

Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID	SSL		SSL	GP-104		GP-105		MW-1	MW-2	MW-3
	Sample Depth (ft bls)	SSL	Vapor	Groundwater	4-6	8-9	8-12	12-16	10-12	10-12
Sample Date	Ingestion	Inhalation	Protection	09/12/02	09/12/02	09/12/02	09/12/02	01/19/05	01/19/05	01/19/05
				Hoffman	Hoffman	Hoffman	Hoffman	Hoffman	Hoffman	Hoffman
VOCs										
cis-1,2-Dichloroethene	156,000	1,300,000	27	<25	<25	<25	<25	<29	<28	<31
Ethylbenzene	--	--	2,900	<25	<25	<25	<25	<29	<28	<31
Fluorotrichloromethane	4,690,000	410,000	9,200	61	<25	<25	<25	<29	<28	<31
Methylene Chloride	8,520	2,700	0.98	<25	<25	<25	<25	72	96	<62
Naphthalene	313,000	68,000	340	<25	<25	<25	<25	<29	<28	<31
Tetrachloroethene	1,230	2,100	4.1	41 Q	45 Q	130	<25	2,800	3,720	<31
Xylenes, Total	--	--	4,100	<50	<50	<50	<50	<58	<56	<62

Constituent concentrations are reported in micrograms per kilogram ($\mu\text{g}/\text{kg}$).

 Concentration exceeds the Soil Screening Level for the protection of groundwater.

Bold Concentration exceeds the Soil Screening Level for vapor inhalation and ingestion.

ft bls Feet below land surface.

ID Identification.

NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

VOCs Volatile organic compounds.

Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID	SSL		SSL	GP-3		GP-106	GP-107	GP-108	GP-109	GP-110
	Sample Depth (ft bls)	Vapor	Groundwater	8-10	10-12	10-12	12-14	14-16	12-14	14-16
Sample Date	Ingestion	Inhalation	Protection	01/08/07 Hoffman	01/08/07 Hoffman	05/01/09 ARC	05/01/09 Johnson	05/01/09 Johnson	05/01/09 City	05/01/09 City
VOCs										
cis-1,2-Dichloroethene	156,000	1,300,000	27	<35	<54	<26	<28	<28	<28	<29
Ethylbenzene	--	--	2,900	80	130	<26	<28	<28	<28	<29
Fluorotrichloromethane	4,690,000	410,000	9,200	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	8,520	2,700	0.98	<69	<110	<53	<56	<56	<56	<57
Naphthalene	313,000	68,000	340	<69	<110	<53	<56	<56	<56	<57
Tetrachloroethene	1,230	2,100	4.1	2,500	5,200	<26	<28	<28	<28	<29
Xylenes, Total	--	--	4,100	320	550	100	<95	<95	<96	<98

Constituent concentrations are reported in micrograms per kilogram ($\mu\text{g}/\text{kg}$).

 Concentration exceeds the Soil Screening Level for the protection of groundwater.

Bold Concentration exceeds the Soil Screening Level for vapor inhalation and ingestion.

ft bls Feet below land surface.

ID Identification.

NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

VOCs Volatile organic compounds.

Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID	GP-111	GP-111	GP-112	GP-112
Sample Depth (ft bls)	10-12	14-16	10-12	14-16
Sample Date	11/13/09	11/13/09	11/13/09	11/13/09
	Viruet	Viruet	Viruet	Viruet
VOCs				
cis-1,2-Dichloroethene	<25	<25	<25	<25
Ethylbenzene	<25	<25	<25	<25
Fluorotrichloromethane	NA	NA	NA	NA
Methylene Chloride	<25	<25	<25	<25
Naphthalene	<25	<25	<25	<25
Tetrachloroethene	<25	<25	<25	<25
Xylenes, Total	<50	<50	<50	<50

Constituent concentrations are reported in micrograms per kilogram ($\mu\text{g}/\text{kg}$).

 Concentration exceeds the Soil Screening Level for the protection of groundwater.

Bold Concentration exceeds the Soil Screening Level for vapor inhalation and ingestion.

ft bls Feet below land surface.

ID Identification.

NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

VOCs Volatile organic compounds.

Table 2. Summary of Vapor Probe Sampling Analytical Results, Hoffman's Valet Cleaners, Wauwautosa, Wisconsin.

Sample Name	Table 3C		Basement Sump		SG-1		SS-1		SS-2	
	Screening Levels		07/26/06		07/28/06		10/21/09		11/16/09	
Sample Date			Hoffman		Hoffman		Johnson		Viruet	
Property Owner										
Units	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³	ppbv	µg/m ³
Acetone	150,000	350,000	230	550	<500	<1,200	<20	<43	NA	NA
Carbon disulfide	220,000	700,000	40	120	<50	<160	<20	<64	0.693	2.16
Cyclohexane	NE	NE	53	180	<20	<69	<20	<69	<0.5	<1.7
1,2-Dichloroethene (total)	NE	NE	7	28	<20	<79	<20	<79	<0.5	<1.7
cis-1,2-Dichloroethene	NE	NE	7	28	<20	<79	<20	<79	<0.5	<1.7
n-Hexane	57,000	200,000	26	110	<50	<180	<20	<70	0.97	3.42
Isopropyl Alcohol	NE	NE	400	980	<500	<1,200	<500	<1,200	NA	NA
Methyl Ethyl Ketone	340,000	1,000,000	18	53	<50	<150	<50	<150	NA	NA
Toluene	110,000	400,00	13	49	<20	<75	<20	<75	0.627	2.36
Tetrachloroethene	120	810	750	5,100	3,000	20,000	36,000	244,000	12	81
Trichloroethene	4.1	22	10	54	<20	<110	<20	<110	<0.5	<2.7

Results are reported in parts per billion by volume (ppbv) and micrograms per cubic meter (µg/m³).

Note: Only analytes detected in vapor samples are presented.

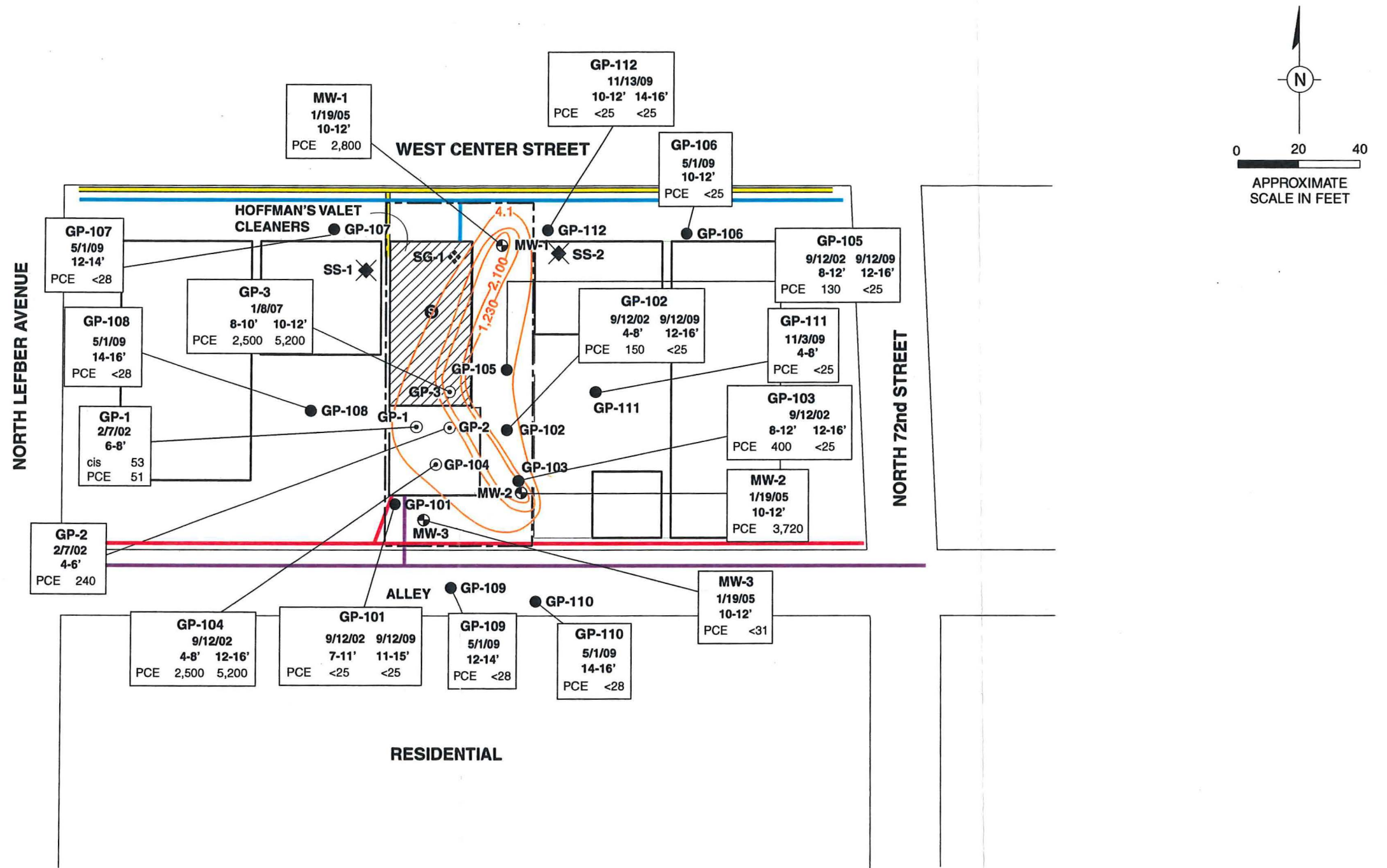
Vapor Probe Samples analyzed for VOCs by EPA Method TO-15.

Value is above the Table 3C Screening Value presented in the U.S. EPA's Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway

Table 3. Cost Estimate for Closure Activities, Former Hoffman's Valet Cleaners, Wauwatosa, Wisconsin.

	Number	Unit	Rate	Unit	Totals
Bid Specifications and Contractor Procurement					
Staff Scientist/Engineer II	6	Hours	@	\$84 /Hr	\$504
Project Staff I	8	Hours	@	\$95 /Hr	\$760
Senior Project Staff I	2	Hours	@	\$132 /Hr	\$264
Project Assistant	2	Hours	@	\$68 /Hr	\$136
Senior Drafting	2	Hours	@	\$68 /Hr	\$136
Subtotal for Bid Specifications and Contractor Procurement					\$1,800
Vapor Mitigation					
Sub-slab Depressurization System	1	Lump Sum	@	\$1,975	\$1,975
Staff Scientist/Engineer II	16	Hours	@	\$84 /Hr	\$1,344
Project Staff I	4	Hours	@	\$98 /Hr	\$392
Senior Project Staff I	2	Hours	@	\$132 /Hr	\$264
Subtotal for Vapor Mitigation					\$3,975
Evaluation of Vapor Mitigation System Effectiveness					
VOC Vapor Samples (TO-15 method)	4	Samples	@	\$350 /Sample	\$1,400
Staff Scientist/Engineer II	10	Hours	@	\$84 /Hr	\$840
Project Staff I	6	Hours	@	\$98 /Hr	\$588
Senior Project Staff I	4	Hours	@	\$132 /Hr	\$528
Miscellaneous Expenses (vehicle, shipping, field equipment, etc.)					\$750
Subtotal for Evaluation of Vapor Mitigation System Effectiveness					\$4,106
Reporting					
Project Staff I	24	Hours	@	\$98 /Hr	\$2,352
Senior Project Staff I	4	Hours	@	\$132 /Hr	\$528
Project Assistant	4	Hours	@	\$68 /Hr	\$272
Senior Designer	2	Hours	@	\$68 /Hr	\$136
Subtotal for Reporting					\$3,288
Total Estimated Costs					\$13,169

21 JAN 10 - ENVIRONMENT-EBMW-LMB
 HOFFMANVALET33VAUWATOSA\GRAPHICS\PCPE EXTENT SOIL 3.A1



LEGEND

- ⊕ MONITORING WELL LOCATION
- GEOPROBE BORING LOCATION
- ⊙ INTERIOR BORING LOCATION
- ⊗ SUMP LOCATION
- ⊕ SOIL/GAS PROBE
- ⊗ SUB-SLAB SOIL GAS LOCATION
- EXTENT OF BASEMENT (7-8' in depth)
- PROPERTY BOUNDARY
- NATURAL GAS
- OVERHEAD LINES
- WATER
- SEWER

- cis PCE
- cis-1,2-Dichloroethene
- Tetrachloroethene
- 4.1- Extent of PCE soil to groundwater pathway exceedances.
- 1,230- Extent of PCE direct contact pathway exceedances in soil.
- 2,100- Extent of PCE inhalation pathway exceedances in soil.

Concentrations are expressed as micrograms per kilogram.

HOFFMAN'S VALET CLEANERS
 WAUWATOSA, WISCONSIN

EXTENT OF PCE EXCEEDANCE IN SOIL

ARCADIS

FIGURE
1

ARCADIS

126 North Jefferson Street

Suite 400

Milwaukee

Wisconsin 53202

Tel 414.276.7742

Fax 414.276.7603

MEMO

To:

Copies:

Alan, Gross Heating

From:

Brian Maillet

Date:

January 6, 2010

ARCADIS Project No.:

WI000943.0004

Subject:

OHM-Butler, Vapor Mitigation System Bid Request

Alan-

Attached is a bid request for installation of a vapor mitigation system at the subject site. The site is an active dry cleaner under the WDNR DERP program. The WDNR is requesting the installation of an active vapor mitigation system within the basement of the building as part of site closure (see site layout basement view on attached figure). Under DERP, we are requesting three bids for this work. Bids will be due by Monday, January 11, 2009. Please call Brian Maillet with ARCADIS at 414-277-6229 to schedule a site visit (if necessary).

Site Location: Valet Cleaners

7215 West Center Street

Wauwatosa, WI 53210

Scope: An active functioning vapor mitigation system will be installed in the basement to carry the concentrated vapors above roof eave of the building.

Work Details:

<http://mail.google.com/a/grossheating.com/?ui=2&ik=8137134322&view=att&th=126059...> 1/12/2010


1. One suction drop pit will be clean drilled to the existing drain tile and/or subsoil to develop the sub-slab (below the basement floor) suction needed to remediate the building.
2. 4 inch schedule 40 PVC ventilation pipe will be utilized in the entire mitigation system.
3. The ventilation pipe will be secured to the internal wall and floor joists of the basement from the drop pit.
4. The clean drilled penetration will be sealed at the ventilation pipe drop.
5. The main drop will be secured at the pit and the wall before it exits through a bored hole to the outside of the building. The location of the external system is the west rear corner of the building.
6. If needed, fire collars will be installed at all breached fire walls.
7. A vapor ventilation suction fan will be secured on the outside of the building.
8. Exhaust pipe will exit the fan and then it will be carried up and above the finished roof and no less than 10 feet away from any fresh air intakes.
9. The exhaust pipe will be carried no less than twelve (12) inches above the finished roof.
10. All ventilation and exhaust pipe will be secured and tagged as part of the remediation system. The pipe and fan will be prepared for any painting the owner may wish to apply to the system.
11. An electric disconnect will be attached to the ventilation fan and gain activation from an appropriate source.
12. Any sump pump crocks will be sealed with silicone caulk for easy access of the sump pump crock. A durable cover will be utilized to seal any crocks. There will be a screw out 4 1/2 inch access port installed for pump monitoring. A silent check valve will be installed to the sump discharge to comply with code, and prevent air dilution that may decrease efficiency of the system. A new 1/2 HP submersible sump pump will be installed if needed.
13. A "U" tube manometer will be applied to the system to evaluate continued function. Other devices are available on request at additional cost.
14. Cold joint and crack sealing with silicone caulk will be conducted to increase suction efficiency.
15. There will be an application of stickers to identify the system, the installer and the system's specifics.
16. Communication tests will be run to assure efficient remediation.
17. All the necessary documents will be produced to include a paid invoice and report of installation.
18. The entire system will be installed in accordance with USEPA specifications.
19. Remediation fans will carry a manufacturer's five (5) year warranty and any sump pump carries a three year warranty.

Total Estimated Cost \$ 1975.00

BIDDER Gross Heating & A/C

Business Address 3260 N. 126th st. Brookfield, WI

Telephone Number 262-783-6000

Signature  Date 01/13/10

RA INC.
VAPOR EXTRACTION SPECIALISTS
A DIVISION OF PT TECHNOLOGIES

Corporate Office: 12221 West Rockne Avenue Hales Corners, WI 53130
414-546-3691 Facsimile: 414-425-5044 radabt1@wi.rr.com

VAPOR REMEDIATION PROPOSAL / AGREEMENT

Date: 012410

Contact: Cari Bray
ARCADIS
126 N. Jefferson Street, Suite 400
Milwaukee, WI 53202
414-277-6233
cari.bray@arcadis-us.com
WDNR contact

Date of Mitigation: Call for an appointment

Mitigation Location: Milwaukee
Wauwatosa Valet Cleaners
Natalie Berdnikova , Owner
414-774-3250
natalieberdnikova@yahoo.com
7215 West Center Street
Wauwatosa, WI 53210

Phone: _____

Tester/examiner: Unknown

Email: _____@_____

**The building was evaluated and diagnosed for vapor remediation on
PROPOSED radon mitigation**

An active functioning system will be installed to carry the concentrated vapors above the eave of the roof of the building.

One suction drop pit will be clean drilled to the existing drain tile and/or subsoil; to develop the sub-slab (below the basement floor) suction needed to remediate the building.

4 inch schedule 40 PVC ventilation pipe will be utilized in the entire radon mitigation system.

The ventilation pipe will be secured to the internal wall and floor joists of the basement from the drop pit.

The clean drilled penetration will be sealed at the ventilation pipe drop.

The main drop will be secured at the pit and the wall before it exits through a bored hole to the outside of the building.

The rear portion of the building is slab on grade and will need to be interconnected with the main system to ventilate the sub-soil below that slab.

If needed, fire collars will be installed at all breached fire walls.

A vapor ventilation suction fan will be secured on the outside of the building, sized on site for efficient sub-slab depressurization.

Exhaust pipe will exit the fan and then it will be carried up and above the finished roof and no less than 10 feet away from any fresh air intakes.

The exhaust pipe will be carried no less than twelve (12) inches above the finished roof.

All ventilation and exhaust pipe will be secured and tagged as part of the remediation system. The pipe and fan will be prepared for any painting the owner may wish to apply to the system.

An electric disconnect will be attached to the ventilation fan and gain activation from an appropriate source. All wiring will have proper permits drawn, and will be wired by the company's state of Wisconsin licensed master electrician.

A "U" tube manometer will be applied to the system to evaluate continued function. Other devices are available on request at additional cost.

Cold joint and crack sealing with silicone caulk will be conducted to increase suction efficiency.

There will be an application of stickers to identify the system, the installer and the system's specifics.

Communication tests will be run to assure efficient remediation.

The building will be retested to insure the safety of the occupants. The responsible party will be pre-determined by the client.

All the necessary documents will be produced to include a paid invoice and report of installation.

The entire system will be installed in accordance with USEPA specifications.

Remediation fans carry a manufacturer's five (5) year warranty. Maintenance programs are available upon request.

Work to be completed for the sum of three-thousand, four- hundred dollars (\$3,400.00)

Payment will immediately follow the installation of the remediation system unless other arrangements are made

Submitted by RA INC Representative/owner Thomas J. Heine date: 012410

In the event that any of the terms of this contract are breached, including and not limited to the fee for parts and labor; RA INC will be entitled to collect collection fees, attorney fees and interest set at 18% per annum.

No changes may be made in stated installation specifications without written contract and associated charges above the proposed estimate of cost. **If any changes are made to the home in the form of remodeling or natural damage, RA INC can not be held liable for the damage to the system. Client will inform RA INC of the same. RA INC holds the right** to make adjustments to proposed costs, if upon viewing and analyzing the work site, the contractor determines that additional material and labor would be necessary to assure the proficiency and safety of the system. Client will be informed at that time, and required to approve all of the same.

If at any time following the installation, damage repairs, fan replacement or sump pump replacements are needed, they will be performed at a customary service fee. Always request an estimate if this becomes necessary.

This Vapor Remediation Proposal may be withdrawn, if not accepted in 15 days from the date of the proposal, by RA INC. I am satisfied with the above price, conditions and specifications of installation, and fully accept the same. I will make payments as described above.

Signature _____

Date: _____

Print name _____



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

Certificate of Analysis Number:

09101155

<u>Report To:</u> Arcadis U.S., Inc Brian Maillet 126 North Jefferson St. Suite 400 Milwaukee WI 53202- ph: (414) 276-7742 fax:	<u>Project Name:</u> WI00943 <u>Site:</u> Wauatosa, WI <u>Site Address:</u> <u>PO Number:</u> LTO#WI1103.208 <u>State:</u> Wisconsin <u>State Cert. No.:</u> <u>Date Reported:</u>
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This Report Contains A Total Of 14 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

11/8/2009

Date



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Case Narrative for:
Arcadis U.S., Inc

Certificate of Analysis Number:
09101155

<p>Report To:</p> <p>Arcadis U.S., Inc Brian Maillet 126 North Jefferson St. Suite 400</p> <p>Milwaukee WI 53202- ph: (414) 276-7742 fax:</p>	<p>Project Name: WI00943</p> <p>Site: Wauatosa, WI</p> <p>Site Address:</p> <p>PO Number: LTO#WI1103.208</p> <p>State: Wisconsin</p> <p>State Cert. No.:</p> <p>Date Reported:</p>
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I. SAMPLE RECEIPT:

All samples were received intact. The internal ice chest temperatures were measured on receipt and are recorded on the attached Sample Receipt Checklist.

II: ANALYSIS AND EXCEPTIONS:

No exceptions noted.

III. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry ").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.

Joann Marroquin
 Senior Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.



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Certificate of Analysis Number:

09101155

Report To: Arcadis U.S., Inc
 Brian Maillet
 126 North Jefferson St. Suite 400

Milwaukee
 WI
 53202-
 ph: (414) 276-7742 fax: (414) 276-7603

Fax To:

Project Name: WI00943
Site: Wauatosa, WI
Site Address:

PO Number: LTO#WI1103.208

State: Wisconsin

State Cert. No.:

Date Reported:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
SS-1	09101155-01	Air	10/21/2009 10:08:00 AM	10/23/2009 9:00:00 AM		<input type="checkbox"/>

Joann Marroquin

Joann Marroquin
 Senior Project Manager

11/8/2009

Date

Kesavalu M. Bagawandoss Ph.D., J.D.
 Laboratory Director

Ted Yen
 Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

Certificate of Analysis Number:
09101155

Report To: Arcadis U.S., Inc Brian Maillet 126 North Jefferson St. Suite 400 Milwaukee WI 53202- ph: (414) 276-7742 fax: (414) 276-7603	Project Name: WI00943 Site: Wauatosa, WI Site Address: PO Number: LTO#WI1103.208 State: Wisconsin State Cert. No.: Date Reported:
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Client Sample ID: SS-1

SPL Sample ID: 09101155-01A

Analyte	ppbv		ug/m3	
	Result	PQL	Result	PQL
1,1,1-Trichloroethane	ND	20	ND	110
1,1,2,2-Tetrachloroethane	ND	20	ND	140
1,1,2-Trichloroethane	ND	20	ND	110
1,1,2-Trichlorotrifluoroethane	ND	20	ND	150
1,1-Dichloroethane	ND	20	ND	81
1,1-Dichloroethene	ND	20	ND	79
1,2,4-Trichlorobenzene	ND	20	ND	150
1,2,4-Trimethylbenzene	ND	20	ND	98
1,2-Dibromoethane	ND	20	ND	150
1,2-Dichlorobenzene	ND	20	ND	120
1,2-Dichloroethane	ND	20	ND	81
1,2-Dichloropropane	ND	20	ND	92
1,2-Dichlorotetrafluoroethane	ND	20	ND	140
1,3,5-Trimethylbenzene	ND	20	ND	98
1,3-Butadiene	ND	40	ND	88
1,3-Dichlorobenzene	ND	20	ND	120
1,4-Dichlorobenzene	ND	20	ND	120
1,4-Dioxane	ND	20	ND	72
2,2,4-Trimethylpentane	ND	20	ND	93
2-Butanone	ND	20	ND	59
2-Hexanone	ND	20	ND	82
2-Propanol	ND	40	ND	98
4-Ethyltoluene	ND	40	ND	200
4-Methyl-2-pentanone	ND	20	ND	82
Acetone	ND	20	ND	47
Acrylonitrile	ND	20	ND	43



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Arcadis U.S., Inc

Certificate of Analysis Number:
09101155

Report To: Arcadis U.S., Inc Brian Maillet 126 North Jefferson St. Suite 400 Milwaukee WI 53202- ph: (414) 276-7742 fax: (414) 276-7603	Project Name: WI00943 Site: Wauatosa, WI Site Address: PO Number: LTO#WI1103.208 State: Wisconsin State Cert. No.: Date Reported:
--	--

Client Sample ID: SS-1

SPL Sample ID: 09101155-01A

Analyte	ppbv		ug/m3	
	Result	PQL	Result	PQL
Allyl chloride	ND	40	ND	130
Benzene	ND	20	ND	64
Benzyl chloride	ND	20	ND	100
Bromodichloromethane	ND	20	ND	130
Bromoform	ND	20	ND	210
Bromomethane	ND	20	ND	78
Carbon disulfide	ND	20	ND	62
Carbon tetrachloride	ND	20	ND	130
Chlorobenzene	ND	20	ND	92
Chloroethane	ND	20	ND	53
Chloroform	ND	20	ND	98
Chloromethane	ND	20	ND	41
cis-1,2-Dichloroethene	ND	20	ND	79
cis-1,3-Dichloropropene	ND	20	ND	91
Cyclohexane	ND	20	ND	69
Dibromochloromethane	ND	20	ND	170
Dichlorodifluoromethane	ND	20	ND	99
Diisopropyl Ether	ND	40	ND	170
Ethyl Acetate	ND	20	ND	72
Ethyl tert-butyl Ether	ND	40	ND	170
Ethylbenzene	ND	20	ND	87
Heptane	ND	20	ND	82
Hexachloro-1,3-butadiene	ND	20	ND	210
Hexane	ND	20	ND	70
m,p-Xylene	ND	20	ND	87
Methyl tert-butyl ether	ND	20	ND	72
Methylene chloride	ND	20	ND	69



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Report To: Arcadis U.S., Inc Brian Maillet 126 North Jefferson St. Suite 400 Milwaukee WI 53202- ph: (414) 276-7742 fax: (414) 276-7603	Project Name: WI00943 Site: Wauatosa, WI Site Address: PO Number: LTO#WI1103.208 State: Wisconsin State Cert. No.: Date Reported:
--	--

Client Sample ID: SS-1

SPL Sample ID: 09101155-01A

Analyte	ppbv		ug/m3	
	Result	PQL	Result	PQL
o-Xylene	ND	20	ND	87
Propylene	ND	20	ND	34
Styrene	ND	20	ND	85
t-Butyl Alcohol	ND	40	ND	120
tert-Amyl Methyl Ether	ND	40	ND	170
Tetrachloroethene	36000	2000	244000	14000
Tetrahydrofuran	ND	20	ND	59
Toluene	ND	20	ND	75
trans-1,2-Dichloroethene	ND	20	ND	79
trans-1,3-Dichloropropene	ND	20	ND	91
Trichloroethene	ND	20	ND	110
Trichlorofluoromethane	ND	20	ND	110
Vinyl acetate	ND	20	ND	70
Vinyl Bromide	ND	20	ND	87
Vinyl chloride	ND	20	ND	51
Xylenes, Total	ND	20	ND	87



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID:SS-1

Collected: 10/21/2009 10:08 SPL Sample ID: 09101155-01

Site: Wauatosa, WI

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EPA TO-15 AIR ANALYSIS				MCL	TO-15	Units: ppbv	
1,1,1-Trichloroethane	ND		20	40	10/23/09 17:48	CLJ	5259841
1,1,2,2-Tetrachloroethane	ND		20	40	10/23/09 17:48	CLJ	5259841
1,1,2-Trichloroethane	ND		20	40	10/23/09 17:48	CLJ	5259841
1,1,2-Trichlorotrifluoroethane	ND		20	40	10/23/09 17:48	CLJ	5259841
1,1-Dichloroethane	ND		20	40	10/23/09 17:48	CLJ	5259841
1,1-Dichloroethene	ND		20	40	10/23/09 17:48	CLJ	5259841
1,2,4-Trichlorobenzene	ND		20	40	10/23/09 17:48	CLJ	5259841
1,2,4-Trimethylbenzene	ND		20	40	10/23/09 17:48	CLJ	5259841
1,2-Dibromoethane	ND		20	40	10/23/09 17:48	CLJ	5259841
1,2-Dichlorobenzene	ND		20	40	10/23/09 17:48	CLJ	5259841
1,2-Dichloroethane	ND		20	40	10/23/09 17:48	CLJ	5259841
1,2-Dichloropropane	ND		20	40	10/23/09 17:48	CLJ	5259841
1,2-Dichlorotetrafluoroethane	ND		20	40	10/23/09 17:48	CLJ	5259841
1,3,5-Trimethylbenzene	ND		20	40	10/23/09 17:48	CLJ	5259841
1,3-Butadiene	ND		40	40	10/23/09 17:48	CLJ	5259841
1,3-Dichlorobenzene	ND		20	40	10/23/09 17:48	CLJ	5259841
1,4-Dichlorobenzene	ND		20	40	10/23/09 17:48	CLJ	5259841
1,4-Dioxane	ND		20	40	10/23/09 17:48	CLJ	5259841
2,2,4-Trimethylpentane	ND		20	40	10/23/09 17:48	CLJ	5259841
2-Butanone	ND		20	40	10/23/09 17:48	CLJ	5259841
2-Hexanone	ND		20	40	10/23/09 17:48	CLJ	5259841
2-Propanol	ND		40	40	10/23/09 17:48	CLJ	5259841
4-Ethyltoluene	ND		40	40	10/23/09 17:48	CLJ	5259841
4-Methyl-2-pentanone	ND		20	40	10/23/09 17:48	CLJ	5259841
Acetone	ND		20	40	10/23/09 17:48	CLJ	5259841
Acrylonitrile	ND		20	40	10/23/09 17:48	CLJ	5259841
Allyl chloride	ND		40	40	10/23/09 17:48	CLJ	5259841
Benzene	ND		20	40	10/23/09 17:48	CLJ	5259841
Benzyl chloride	ND		20	40	10/23/09 17:48	CLJ	5259841
Bromodichloromethane	ND		20	40	10/23/09 17:48	CLJ	5259841
Bromoform	ND		20	40	10/23/09 17:48	CLJ	5259841
Bromomethane	ND		20	40	10/23/09 17:48	CLJ	5259841
Carbon disulfide	ND		20	40	10/23/09 17:48	CLJ	5259841
Carbon tetrachloride	ND		20	40	10/23/09 17:48	CLJ	5259841
Chlorobenzene	ND		20	40	10/23/09 17:48	CLJ	5259841
Chloroethane	ND		20	40	10/23/09 17:48	CLJ	5259841
Chloroform	ND		20	40	10/23/09 17:48	CLJ	5259841
Chloromethane	ND		20	40	10/23/09 17:48	CLJ	5259841
cis-1,2-Dichloroethene	ND		20	40	10/23/09 17:48	CLJ	5259841

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B/V - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID:SS-1

Collected: 10/21/2009 10:08 SPL Sample ID: 09101155-01

Site: Wauatosa, WI

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
cis-1,3-Dichloropropene	ND		20	40	10/23/09 17:48	CLJ	5259841
Cyclohexane	ND		20	40	10/23/09 17:48	CLJ	5259841
Dibromochloromethane	ND		20	40	10/23/09 17:48	CLJ	5259841
Dichlorodifluoromethane	ND		20	40	10/23/09 17:48	CLJ	5259841
Diisopropyl Ether	ND		40	40	10/23/09 17:48	CLJ	5259841
Ethyl Acetate	ND		20	40	10/23/09 17:48	CLJ	5259841
Ethyl tert-butyl Ether	ND		40	40	10/23/09 17:48	CLJ	5259841
Ethylbenzene	ND		20	40	10/23/09 17:48	CLJ	5259841
Heptane	ND		20	40	10/23/09 17:48	CLJ	5259841
Hexachloro-1,3-butadiene	ND		20	40	10/23/09 17:48	CLJ	5259841
Hexane	ND		20	40	10/23/09 17:48	CLJ	5259841
m,p-Xylene	ND		20	40	10/23/09 17:48	CLJ	5259841
Methyl tert-butyl ether	ND		20	40	10/23/09 17:48	CLJ	5259841
Methylene chloride	ND		20	40	10/23/09 17:48	CLJ	5259841
o-Xylene	ND		20	40	10/23/09 17:48	CLJ	5259841
Propylene	ND		20	40	10/23/09 17:48	CLJ	5259841
Styrene	ND		20	40	10/23/09 17:48	CLJ	5259841
t-Butyl Alcohol	ND		40	40	10/23/09 17:48	CLJ	5259841
tert-Amyl Methyl Ether	ND		40	40	10/23/09 17:48	CLJ	5259841
Tetrachloroethene	36000		2000	4000	10/24/09 20:40	CLJ	5260112
Tetrahydrofuran	ND		20	40	10/23/09 17:48	CLJ	5259841
Toluene	ND		20	40	10/23/09 17:48	CLJ	5259841
trans-1,2-Dichloroethene	ND		20	40	10/23/09 17:48	CLJ	5259841
trans-1,3-Dichloropropene	ND		20	40	10/23/09 17:48	CLJ	5259841
Trichloroethene	ND		20	40	10/23/09 17:48	CLJ	5259841
Trichlorofluoromethane	ND		20	40	10/23/09 17:48	CLJ	5259841
Vinyl acetate	ND		20	40	10/23/09 17:48	CLJ	5259841
Vinyl Bromide	ND		20	40	10/23/09 17:48	CLJ	5259841
Vinyl chloride	ND		20	40	10/23/09 17:48	CLJ	5259841
Xylenes, Total	ND		20	40	10/23/09 17:48	CLJ	5259841

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B/V - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

WI00943

Analysis: EPA TO-15 Air Analysis
Method: TO-15

WorkOrder: 09101155
Lab Batch ID: R287081

Method Blank Samples in Analytical Batch:
RunID: AIR 1_091023A-5257361 Units: ppbv Lab Sample ID Client Sample ID
Analysis Date: 10/23/2009 8:48 Analyst: CLJ 09101155-01A SS-1

Table with 3 columns: Analyte, Result, Rep Limit. Lists various chemical compounds and their detection results (ND) and reporting limits (0.50 or 1.0).

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

WI00943

Analysis: EPA TO-15 Air Analysis
Method: TO-15

WorkOrder: 09101155
Lab Batch ID: R287081

Method Blank

RunID: AIR 1_091023A-5257361 Units: ppbv
Analysis Date: 10/23/2009 8:48 Analyst: CLJ

Table with 3 columns: Analyte, Result, Rep Limit. Lists various compounds like Ethylbenzene, Heptane, Hexachloro-1,3-butadiene, etc., with results mostly ND and limits of 0.50 or 1.0.

Laboratory Control Sample (LCS)

RunID: AIR 1_091023A-5256632 Units: ppbv
Analysis Date: 10/23/2009 6:52 Analyst: CLJ

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Shows recovery data for various chlorinated hydrocarbons.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte Detected In The Associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated Value Between MDL And PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

WI00943

Analysis: EPA TO-15 Air Analysis
Method: TO-15

WorkOrder: 09101155
Lab Batch ID: R287081

Laboratory Control Sample (LCS)

RunID: AIR_1_091023A-5256632 Units: ppbv
Analysis Date: 10/23/2009 6:52 Analyst: CLJ

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Lists various chemical compounds and their corresponding values.

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

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Arcadis U.S., Inc

WI00943

Analysis: EPA TO-15 Air Analysis
Method: TO-15

WorkOrder: 09101155
Lab Batch ID: R287081

Laboratory Control Sample (LCS)

RunID: AIR_1_091023A-5256632 Units: ppbv
Analysis Date: 10/23/2009 6:52 Analyst: CLJ

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Lists various chemical compounds and their corresponding values.

Sample Duplicate

Original Sample: 09101035-01
RunID: AIR_1_091023A-5264228 Units: ppbv
Analysis Date: 10/23/2009 10:17 Analyst: CLJ

- Qualifiers: ND/U - Not Detected at the Reporting Limit, B - Analyte Detected In The Associated Method Blank, J - Estimated Value Between MDL And PQL, E - Estimated Value exceeds calibration curve, N/C - Not Calculated, TNTC - Too numerous to count, MI - Matrix Interference, D - Recovery Unreportable due to Dilution, * - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
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Arcadis U.S., Inc

WI00943

Analysis: EPA TO-15 Air Analysis
 Method: TO-15

WorkOrder: 09101155
 Lab Batch ID: R287081

Analyte	Sample Result	DUP Result	RPD	RPD Limit
1,1,1-Trichloroethane	ND	ND	0	30
1,1,2,2-Tetrachloroethane	ND	ND	0	30
1,1,2-Trichloroethane	ND	ND	0	30
1,1,2-Trichlorotrifluoroethane	ND	ND	0	30
1,1-Dichloroethane	ND	ND	0	30
1,1-Dichloroethene	ND	ND	0	30
1,2,4-Trichlorobenzene	ND	ND	0	30
1,2,4-Trimethylbenzene	ND	ND	0	30
1,2-Dibromoethane	ND	ND	0	30
1,2-Dichlorobenzene	ND	ND	0	30
1,2-Dichloroethane	ND	ND	0	30
1,2-Dichloropropane	ND	ND	0	30
1,2-Dichlorotetrafluoroethane	ND	ND	0	30
1,3,5-Trimethylbenzene	ND	ND	0	30
1,3-Butadiene	ND	ND	0	30
1,3-Dichlorobenzene	ND	ND	0	30
1,4-Dichlorobenzene	ND	ND	0	30
1,4-Dioxane	ND	ND	0	30
2,2,4-Trimethylpentane	1220000	1498000	20.6	30
2-Butanone	ND	ND	0	30
2-Hexanone	ND	ND	0	30
2-Propanol	ND	ND	0	30
4-Ethyltoluene	ND	ND	0	30
4-Methyl-2-pentanone	ND	ND	0	30
Acetone	288000	317000	9.52	30
Acrylonitrile	44400	51500	14.8	30
Allyl chloride	110000	118500	7.69	30
Benzene	ND	ND	0	30
Benzyl chloride	ND	ND	0	30
Bromodichloromethane	ND	ND	0	30
Bromoform	ND	ND	0	30
Bromomethane	ND	ND	0	30
Carbon disulfide	ND	ND	0	30
Carbon tetrachloride	ND	ND	0	30
Chlorobenzene	ND	ND	0	30
Chloroethane	ND	ND	0	30
Chloroform	ND	ND	0	30
Chloromethane	ND	ND	0	30
cis-1,2-Dichloroethene	ND	ND	0	30
cis-1,3-Dichloropropene	ND	ND	0	30

Qualifiers: ND/U - Not Detected at the Reporting Limit
 B - Analyte Detected In The Associated Method Blank
 J - Estimated Value Between MDL And PQL
 E - Estimated Value exceeds calibration curve
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
 TNTC - Too numerous to count

MI - Matrix Interference
 D - Recovery Unreportable due to Dilution
 * - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

WI00943

Analysis: EPA TO-15 Air Analysis
Method: TO-15

WorkOrder: 09101155
Lab Batch ID: R287081

Sample Duplicate

Original Sample: 09101035-01
RunID: AIR 1_091023A-5264228 Units: ppbv
Analysis Date: 10/23/2009 10:17 Analyst: CLJ

Table with 5 columns: Analyte, Sample Result, DUP Result, RPD, RPD Limit. Rows include various chemical compounds like Cyclohexane, Hexane, and Xylenes.

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

WI00943

Analysis: EPA TO-15 Air Analysis
Method: TO-15

WorkOrder: 09101155
Lab Batch ID: R287311

Method Blank

Samples in Analytical Batch:

RunID: AIR 1_091024A-5260109 Units: ppbv
Analysis Date: 10/24/2009 14:49 Analyst: CLJ

Lab Sample ID: 09101155-01A
Client Sample ID: SS-1

Table with 3 columns: Analyte, Result, Rep Limit. Row: Tetrachloroethene, ND, 0.50

Laboratory Control Sample (LCS)

RunID: AIR 1_091024A-5260110 Units: ppbv
Analysis Date: 10/24/2009 17:02 Analyst: CLJ

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Row: Tetrachloroethene, 10.00, 9.594, 95.94, 63, 134

Sample Duplicate

Original Sample: 09101157-25
RunID: AIR 1_091024A-5260213 Units: ppbv
Analysis Date: 10/24/2009 18:16 Analyst: CLJ

Table with 5 columns: Analyte, Sample Result, DUP Result, RPD, RPD Limit. Row: Tetrachloroethene, ND, ND, 0, 30

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Sample Receipt Checklist

Workorder:	09101155	Received By:	T_B
Date and Time Received:	10/23/2009 9:00:00 AM	Carrier name:	Fedex-Standard Overnight
Temperature:	21.7°C	Chilled by:	Not Chilled

1. Shipping container/cooler in good condition? Yes No Not Present
2. Custody seals intact on shipping container/cooler? Yes No Not Present
3. Custody seals intact on sample bottles? Yes No Not Present
4. Chain of custody present? Yes No
5. Chain of custody signed when relinquished and received? Yes No
6. Chain of custody agrees with sample labels? Yes No
7. Samples in proper container/bottle? Yes No
8. Sample containers intact? Yes No
9. Sufficient sample volume for indicated test? Yes No
10. All samples received within holding time? Yes No
11. Container/Temp Blank temperature in compliance? Yes No
12. Water - VOA vials have zero headspace? Yes No VOA Vials Not Present
13. Water - Preservation checked upon receipt (except VOA*)? Yes No Not Applicable

*VOA Preservation Checked After Sample Analysis

SPL Representative:

Contact Date & Time:

Client Name Contacted:

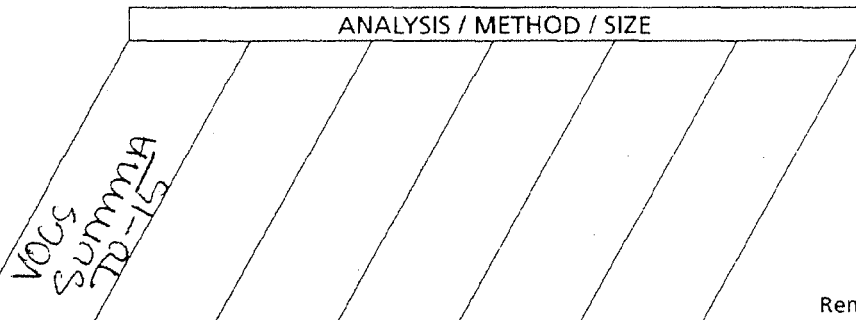
Non Conformance Issues:

Client Instructions:



Laboratory Task Order No./P.O. No. _____

Project Number/Name W100943 / HOFFMAN
 Project Location WAUWATOSA, WI
 Laboratory SPL HOUSTON
 Project Manager BRIAN MAILLET
 Sampler(s)/Affiliation M. VENNE / ARCADIS



Sample ID/Location	Matrix	Date/Time Sampled	TIME tab ID	1	2	3	4	5	6	7	8	9	Remarks	Total
SS-1	A	10/21/09	10:08	1									SERIAL # A109H090	1

Sample Matrix: L = Liquid; S = Solid; A = Air Total No. of Bottles/Containers 1

Relinquished by: <u>M. Venne</u>	Organization: <u>ARCADIS</u>	Date: <u>10/21/09</u>	Time: <u>11:40</u>	Seal Intact?
Received by: <u>ARCADIS</u>	Organization: _____	Date: <u>10/23/09</u>	Time: <u>9:00</u>	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u> / / </u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u> / / </u>	Time: _____	Yes No N/A

Special Instructions/Remarks: PLEASE CONTACT BRIAN MAILLET @ 414-276-7742 w/ QUERIES/CONCERNS.
THANKS!

Delivery Method: In Person Common Carrier FED-EX Lab Courier Other _____
SPECIFY SPECIFY



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

Certificate of Analysis Number:

09110554

Report To: Arcadis U.S., Inc Brian Maillet 126 North Jefferson St. Suite 400 Milwaukee WI 53202- ph: (414) 276-7742 fax:	Project Name: Hoffman Cleaners/ WI000943.0004.0000 Site: Wauwatosa, WI Site Address: PO Number: LTO#WI1103.208 State: Wisconsin State Cert. No.: Date Reported: 12/6/2009
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This Report Contains A Total Of 13 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

12/6/2009

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

Certificate of Analysis Number:
09110554

Report To: Arcadis U.S., Inc Brian Maillet 126 North Jefferson St. Suite 400 Milwaukee WI 53202- ph: (414) 276-7742 fax: (414) 276-7603	Project Name: Hoffman Cleaners/ WI000943.0004.0000 Site: Wauwatosa, WI Site Address: PO Number: LTO#WI1103.208 State: Wisconsin State Cert. No.: Date Reported: 12/6/2009
--	--

Client Sample ID: SS-2

SPL Sample ID: 09110554-01A

Analyte	ppbv		ug/m3	
	Result	PQL	Result	PQL
1,1,1-Trichloroethane	ND	0.5	ND	2.7
1,1,2,2-Tetrachloroethane	ND	0.5	ND	3.4
1,1,2-Trichloroethane	ND	0.5	ND	2.7
1,1,2-Trichlorotrifluoroethane	ND	0.5	ND	3.8
1,1-Dichloroethane	ND	0.5	ND	2.0
1,1-Dichloroethene	ND	0.5	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5	ND	3.7
1,2,4-Trimethylbenzene	1.13	0.5	5.57	2.5
1,2-Dibromoethane	ND	0.5	ND	3.8
1,2-Dichlorobenzene	ND	0.5	ND	3.0
1,2-Dichloroethane	ND	0.5	ND	2.0
1,2-Dichloropropane	ND	0.5	ND	2.3
1,2-Dichlorotetrafluoroethane	ND	0.5	ND	3.5
1,3,5-Trimethylbenzene	ND	0.5	ND	2.5
1,3-Butadiene	ND	1	ND	2.2
1,3-Dichlorobenzene	ND	0.5	ND	3.0
1,4-Dichlorobenzene	ND	0.5	ND	3.0
1,4-Dioxane	ND	0.5	ND	1.8
2,2,4-Trimethylpentane	ND	0.5	ND	2.3
2-Butanone	0.522	0.5	1.54	1.5
2-Hexanone	ND	0.5	ND	2.0
2-Propanol	1.25	1	3.07	2.5
4-Ethyltoluene	ND	1	ND	4.9
4-Methyl-2-pentanone	ND	0.5	ND	2.0
Acetone	8.62	0.5	20.5	1.2
Acrylonitrile	ND	0.5	ND	1.1



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

Certificate of Analysis Number:
09110554

Report To: Arcadis U.S., Inc Brian Maillet 126 North Jefferson St. Suite 400 Milwaukee WI 53202- ph: (414) 276-7742 fax: (414) 276-7603	Project Name: Hoffman Cleaners/ WI000943.0004.0000 Site: Wauwatosa, WI Site Address: PO Number: LTO#WI1103.208 State: Wisconsin State Cert. No.: Date Reported: 12/6/2009
--	--

Client Sample ID: SS-2

SPL Sample ID: 09110554-01A

Analyte	ppbv		ug/m3	
	Result	PQL	Result	PQL
Allyl chloride	ND	1	ND	3.1
Benzene	ND	0.5	ND	1.6
Benzyl chloride	ND	0.5	ND	2.6
Bromodichloromethane	ND	0.5	ND	3.3
Bromoform	ND	0.5	ND	5.2
Bromomethane	ND	0.5	ND	1.9
Carbon disulfide	0.693	0.5	2.16	1.6
Carbon tetrachloride	ND	0.5	ND	3.1
Chlorobenzene	ND	0.5	ND	2.3
Chloroethane	ND	0.5	ND	1.3
Chloroform	ND	0.5	ND	2.4
Chloromethane	ND	0.5	ND	1.0
cis-1,2-Dichloroethene	ND	0.5	ND	2.0
cis-1,3-Dichloropropene	ND	0.5	ND	2.3
Cyclohexane	ND	0.5	ND	1.7
Dibromochloromethane	ND	0.5	ND	4.3
Dichlorodifluoromethane	0.56	0.5	2.77	2.5
Diisopropyl Ether	ND	1	ND	4.2
Ethyl Acetate	ND	0.5	ND	1.8
Ethyl tert-butyl Ether	ND	1	ND	4.2
Ethylbenzene	ND	0.5	ND	2.2
Heptane	ND	0.5	ND	2.0
Hexachloro-1,3-butadiene	ND	0.5	ND	5.3
Hexane	0.97	0.5	3.42	1.8
m,p-Xylene	0.857	0.5	3.72	2.2
Methyl tert-butyl ether	ND	0.5	ND	1.8
Methylene chloride	ND	0.5	ND	1.7



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

Certificate of Analysis Number:

09110554

Report To: Arcadis U.S., Inc Brian Maillet 126 North Jefferson St. Suite 400 Milwaukee WI 53202- ph: (414) 276-7742 fax: (414) 276-7603	Project Name: Hoffman Cleaners/ WI000943.0004.0000 Site: Wauwatosa, WI Site Address: PO Number: LTO#WI1103.208 State: Wisconsin State Cert. No.: Date Reported: 12/6/2009
--	--

Client Sample ID: SS-2

SPL Sample ID: 09110554-01A

Analyte	ppbv		ug/m3	
	Result	PQL	Result	PQL
o-Xylene	ND	0.5	ND	2.2
Propylene	ND	0.5	ND	0.86
Styrene	ND	0.5	ND	2.1
t-Butyl Alcohol	ND	1	ND	3.0
tert-Amyl Methyl Ether	ND	1	ND	4.2
Tetrachloroethene	11.9	0.5	80.8	3.4
Tetrahydrofuran	ND	0.5	ND	1.5
Toluene	0.627	0.5	2.36	1.9
trans-1,2-Dichloroethene	ND	0.5	ND	2.0
trans-1,3-Dichloropropene	ND	0.5	ND	2.3
Trichloroethene	ND	0.5	ND	2.7
Trichlorofluoromethane	ND	0.5	ND	2.8
Vinyl acetate	ND	0.5	ND	1.8
Vinyl Bromide	ND	0.5	ND	2.2
Vinyl chloride	ND	0.5	ND	1.3
Xylenes, Total	0.857	0.5	5.604	2.2



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Case Narrative for:
Arcadis U.S., Inc

Certificate of Analysis Number:

09110554

<p>Report To:</p> <p>Arcadis U.S., Inc Brian Maillet 126 North Jefferson St. Suite 400</p> <p>Milwaukee WI 53202- ph: (414) 276-7742 fax:</p>	<p>Project Name: Hoffman Cleaners/ WI000943.0004.0000</p> <p>Site: Wauwatosa, WI</p> <p>Site Address:</p> <p>PO Number: LTO#WI1103.208</p> <p>State: Wisconsin</p> <p>State Cert. No.:</p> <p>Date Reported: 12/6/2009</p>
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I. SAMPLE RECEIPT:

All samples were received intact. The internal ice chest temperatures were measured on receipt and are recorded on the attached Sample Receipt Checklist.

II: ANALYSIS AND EXCEPTIONS:

No exceptions noted.

III. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry ").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.

Joann Marroquin



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Arcadis U.S., Inc

Certificate of Analysis Number:

09110554

Report To: Arcadis U.S., Inc
 Brian Maillet
 126 North Jefferson St. Suite 400

 Milwaukee
 WI
 53202-
 ph: (414) 276-7742 fax: (414) 276-7603

Project Name: Hoffman Cleaners/ WI000943.0004.0000
Site: Wauwatosa, WI
Site Address:

PO Number: LTO#WI1103.208
State: Wisconsin
State Cert. No.:
Date Reported: 12/6/2009

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
SS-2	09110554-01	Air	11/12/2009 9:15:00 AM	11/13/2009 9:00:00 AM		<input type="checkbox"/>

Joann Marroquin

Joann Marroquin
 Senior Project Manager

12/6/2009

Date

Kesavalu M. Bagawandoss Ph.D., J.D.
 Laboratory Director

Ted Yen
 Quality Assurance Officer



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID:SS-2

Collected: 11/12/2009 9:15

SPL Sample ID: 09110554-01

Site: Wauwatosa, WI

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EPA TO-15 AIR ANALYSIS				MCL	TO-15	Units: ppbv	
1,1,1-Trichloroethane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
1,1,2,2-Tetrachloroethane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
1,1,2-Trichloroethane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
1,1,2-Trichlorotrifluoroethane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
1,1-Dichloroethane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
1,1-Dichloroethene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
1,2,4-Trichlorobenzene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
1,2,4-Trimethylbenzene	1.13		0.5	1	11/13/09 18:08	CLJ	5292544
1,2-Dibromoethane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
1,2-Dichlorobenzene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
1,2-Dichloroethane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
1,2-Dichloropropane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
1,2-Dichlorotetrafluoroethane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
1,3,5-Trimethylbenzene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
1,3-Butadiene	ND		1	1	11/13/09 18:08	CLJ	5292544
1,3-Dichlorobenzene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
1,4-Dichlorobenzene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
1,4-Dioxane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
2,2,4-Trimethylpentane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
2-Butanone	0.522		0.5	1	11/13/09 18:08	CLJ	5292544
2-Hexanone	ND		0.5	1	11/13/09 18:08	CLJ	5292544
2-Propanol	1.25		1	1	11/13/09 18:08	CLJ	5292544
4-Ethyltoluene	ND		1	1	11/13/09 18:08	CLJ	5292544
4-Methyl-2-pentanone	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Acetone	8.62		0.5	1	11/13/09 18:08	CLJ	5292544
Acrylonitrile	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Allyl chloride	ND		1	1	11/13/09 18:08	CLJ	5292544
Benzene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Benzyl chloride	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Bromodichloromethane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Bromoform	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Bromomethane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Carbon disulfide	0.693		0.5	1	11/13/09 18:08	CLJ	5292544
Carbon tetrachloride	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Chlorobenzene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Chloroethane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Chloroform	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Chloromethane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
cis-1,2-Dichloroethene	ND		0.5	1	11/13/09 18:08	CLJ	5292544

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B/V - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID:SS-2

Collected: 11/12/2009 9:15

SPL Sample ID: 09110554-01

Site: Wauwatosa, WI

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
cis-1,3-Dichloropropene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Cyclohexane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Dibromochloromethane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Dichlorodifluoromethane	0.56		0.5	1	11/13/09 18:08	CLJ	5292544
Diisopropyl Ether	ND		1	1	11/13/09 18:08	CLJ	5292544
Ethyl Acetate	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Ethyl tert-butyl Ether	ND		1	1	11/13/09 18:08	CLJ	5292544
Ethylbenzene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Heptane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Hexachloro-1,3-butadiene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Hexane	0.97		0.5	1	11/13/09 18:08	CLJ	5292544
m,p-Xylene	0.857		0.5	1	11/13/09 18:08	CLJ	5292544
Methyl tert-butyl ether	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Methylene chloride	ND		0.5	1	11/13/09 18:08	CLJ	5292544
o-Xylene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Propylene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Styrene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
t-Butyl Alcohol	ND		1	1	11/13/09 18:08	CLJ	5292544
tert-Amyl Methyl Ether	ND		1	1	11/13/09 18:08	CLJ	5292544
Tetrachloroethene	11.9		0.5	1	11/13/09 18:08	CLJ	5292544
Tetrahydrofuran	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Toluene	0.627		0.5	1	11/13/09 18:08	CLJ	5292544
trans-1,2-Dichloroethene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
trans-1,3-Dichloropropene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Trichloroethene	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Trichlorofluoromethane	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Vinyl acetate	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Vinyl Bromide	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Vinyl chloride	ND		0.5	1	11/13/09 18:08	CLJ	5292544
Xylenes, Total	0.857		0.5	1	11/13/09 18:08	CLJ	5292544

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

Hoffman Cleaners/ WI000943.0004.00001

Analysis: EPA TO-15 Air Analysis
Method: TO-15

WorkOrder: 09110554
Lab Batch ID: R289301

Method Blank

Samples in Analytical Batch:

RunID: AIR 1_091113A-5292539 Units: ppbv
Analysis Date: 11/13/2009 11:26 Analyst: CLJ

Lab Sample ID Client Sample ID
09110554-01A SS-2

Table with 3 columns: Analyte, Result, Rep Limit. Lists various chemical compounds and their detection results (ND) and reporting limits (0.50 or 1.0).

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

Hoffman Cleaners/ WI000943.0004.00001

Analysis: EPA TO-15 Air Analysis
Method: TO-15

WorkOrder: 09110554
Lab Batch ID: R289301

Method Blank

RunID: AIR 1_091113A-5292539 Units: ppbv
Analysis Date: 11/13/2009 11:26 Analyst: CLJ

Table with 3 columns: Analyte, Result, Rep Limit. Lists various chemical analytes such as Ethylbenzene, Heptane, Hexachloro-1,3-butadiene, etc., with results mostly 'ND' and a reporting limit of 0.50.

Laboratory Control Sample (LCS)

RunID: AIR 1_091113A-5292537 Units: ppbv
Analysis Date: 11/13/2009 8:51 Analyst: CLJ

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Shows data for various chlorinated hydrocarbons like 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, etc.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte Detected In The Associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated Value Between MDL And PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

Hoffman Cleaners/ WI000943.0004.00001

Analysis: EPA TO-15 Air Analysis
Method: TO-15

WorkOrder: 09110554
Lab Batch ID: R289301

Laboratory Control Sample (LCS)

RunID: AIR_1_091113A-5292537 Units: ppbv
Analysis Date: 11/13/2009 8:51 Analyst: CLJ

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Lists various chemical compounds and their corresponding values.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte Detected In The Associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated Value Between MDL And PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

Hoffman Cleaners/ W1000943.0004.00001

Analysis: EPA TO-15 Air Analysis
Method: TO-15

WorkOrder: 09110554
Lab Batch ID: R289301

Laboratory Control Sample (LCS)

RunID: AIR 1_091113A-5292537 Units: ppbv
Analysis Date: 11/13/2009 8:51 Analyst: CLJ

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Rows include various chemical compounds like Dichlorodifluoromethane, Diisopropyl Ether, Ethyl Acetate, etc.

Sample Duplicate

Original Sample: 09110348-01
RunID: AIR 1_091113A-5292554 Units: ppbv
Analysis Date: 11/13/2009 12:01 Analyst: CLJ

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte Detected In The Associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated Value Between MDL And PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

Hoffman Cleaners/ WI000943.0004.00001

Analysis: EPA TO-15 Air Analysis
Method: TO-15

WorkOrder: 09110554
Lab Batch ID: R289301

Table with 6 columns: Analyte, Sample Result, DUP Result, RPD, RPD Limit. Rows list various chemical compounds and their corresponding results.

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Arcadis U.S., Inc

Hoffman Cleaners/ WI000943.0004.00001

Analysis: EPA TO-15 Air Analysis
Method: TO-15

WorkOrder: 09110554
Lab Batch ID: R289301

Sample Duplicate

Original Sample: 09110348-01
RunID: AIR 1_091113A-5292554 Units: ppbv
Analysis Date: 11/13/2009 12:01 Analyst: CLJ

Table with 5 columns: Analyte, Sample Result, DUP Result, RPD, RPD Limit. Lists various chemical analytes and their corresponding results.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte Detected In The Associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated Value Between MDL And PQL * - Recovery Outside Advisable QC Limits
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	09110554	Received By:	AMV
Date and Time Received:	11/13/2009 9:00:00 AM	Carrier name:	Fedex-Standard Overnight
Temperature:	21.7°C	Chilled by:	Not Chilled

- 1. Shipping container/cooler in good condition? Yes No Not Present
- 2. Custody seals intact on shipping container/cooler? Yes No Not Present
- 3. Custody seals intact on sample bottles? Yes No Not Present
- 4. Chain of custody present? Yes No
- 5. Chain of custody signed when relinquished and received? Yes No
- 6. Chain of custody agrees with sample labels? Yes No
- 7. Samples in proper container/bottle? Yes No
- 8. Sample containers intact? Yes No
- 9. Sufficient sample volume for indicated test? Yes No
- 10. All samples received within holding time? Yes No
- 11. Container/Temp Blank temperature in compliance? Yes No
- 12. Water - VOA vials have zero headspace? Yes No VOA Vials Not Present
- 13. Water - Preservation checked upon receipt (except VOA*)? Yes No Not Applicable

*VOA Preservation Checked After Sample Analysis

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance Issues:

Client Instructions:



SPL, Inc.

Analysis Request & Chain of Custody Record

Air Testing Services

SPL Workorder No. 09110554

Page 1 of 1

Company Name: ARCADIS
 Address: 126 N Jefferson St #400
 City: Milwaukee State: WI Zip: 53202
 Phone: 414-276-7742 Fax: 414-276-7603
 Client Contact: Brian Maillet Email: Brian.Maillet@arcadis-us.com
 Project Name/No.: Hoffman Cleaners/wiscon943.0004.00001
 Site Name: Hoffman Cleaners
 Site Location: Wauwatosa WI
 Collected by: (Sig.) Cari A Bray
 P.O.#:

Sample Container Type: C
C=Canister/T=Tedlar Bag
 Sample Container Size (Insert the size of sample container, ie. 1L = 1 Liter): 6

Requested TAT

24hr 48hr 72hr 5 Day

Standard Contract Other

QC Requirements

stand. qc level III level IV

TX TRRP LA RECAP

Report Results

Fax Email pdf

Serial #'s		Client Sample Id:	Date	Time	Sample Container Type	Sample Container Size	Analyses Requested	Canister Pressure / Vacuum		
Canister	Flow Reg.							Initial	Final	Lab
<u>0323</u>	<u>NA</u>	<u>SS-2</u>	<u>11/12/09</u>	<u>0915</u>	<u>C</u>	<u>6</u>	<u>TO-15</u>	<u>-30</u>	<u>-2</u>	

Client Comments:

1. Relinquished by: <u>Cari A Bray</u>	date: <u>11/12/09</u>	time: <u>1700</u>	2. Received by:
3. Relinquished by:	date:	time:	4. Received by:
5. Relinquished by:	date: <u>11/13/09</u>	time: <u>9:00</u>	6. Received by Laboratory: <u>Amanda Kucenain</u>

LAB USE ONLY

Shipper Name	Airbill #	Opened By:	Temp (°F)	Condition	Custody Seals Intact?	PM Review (Initials)
			<u>21.7°C</u>		<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> None Present	
Lab Comments:						

November 19, 2009

Brian Maillet
ARCADIS G & M
126 N JEFFERSON ST
SUITE 400
Milwaukee, WI 53202

RE: Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

Dear Brian Maillet:

Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,



Steven Mleczko

steve.mleczko@pacelabs.com
Project Manager

Enclosures

cc: Ed Buc, ARCADIS G & M

REPORT OF LABORATORY ANALYSIS

Page 1 of 23

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CERTIFICATIONS

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

Green Bay Certification IDs

California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11887

New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
1241 Bellevue Street Green Bay, WI 54302

REPORT OF LABORATORY ANALYSIS

Page 2 of 23

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SAMPLE SUMMARY

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4025387001	GP-111 (10-12)	Solid	11/12/09 11:00	11/13/09 11:30
4025387002	GP-111 (14-16)	Solid	11/12/09 11:00	11/13/09 11:30
4025387003	GP-112 (10-12)	Solid	11/12/09 12:15	11/13/09 11:30
4025387004	GP-112 (14-16)	Solid	11/12/09 12:15	11/13/09 11:30
4025387005	MEOH BLANK	Solid	11/12/09 00:00	11/13/09 11:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4025387001	GP-111 (10-12)	ASTM D2974-87	AG	1	PASI-G
		EPA 8260	JJB	64	PASI-G
4025387002	GP-111 (14-16)	ASTM D2974-87	AG	1	PASI-G
		EPA 8260	JJB	64	PASI-G
4025387003	GP-112 (10-12)	ASTM D2974-87	AG	1	PASI-G
		EPA 8260	JJB	64	PASI-G
4025387004	GP-112 (14-16)	ASTM D2974-87	AG	1	PASI-G
		EPA 8260	JJB	64	PASI-G
4025387005	MEOH BLANK	EPA 8260	JJB	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

Method: EPA 8260
Description: 8260 MSV Med Level Normal List
Client: ARCADIS G & M
Date: November 19, 2009

General Information:

5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

Method: ASTM D2974-87
Description: Percent Moisture
Client: ARCADIS G & M
Date: November 19, 2009

General Information:

4 samples were analyzed for ASTM D2974-87. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

ANALYTICAL RESULTS

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

Sample: GP-111 (10-12) Lab ID: 4025387001 Collected: 11/12/09 11:00 Received: 11/13/09 11:30 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							
Benzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	71-43-2	W
Bromobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	108-86-1	W
Bromochloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	74-97-5	W
Bromodichloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	75-27-4	W
Bromoform	<25.9 ug/kg		60.0	25.9	1	11/16/09 13:01	11/17/09 10:09	75-25-2	W
Bromomethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	74-83-9	W
n-Butylbenzene	<40.4 ug/kg		60.0	40.4	1	11/16/09 13:01	11/17/09 10:09	104-51-8	W
sec-Butylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	135-98-8	W
tert-Butylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	98-06-6	W
Carbon tetrachloride	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	56-23-5	W
Chlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	108-90-7	W
Chloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	75-00-3	W
Chloroform	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	67-66-3	W
Chloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	74-87-3	W
2-Chlorotoluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	95-49-8	W
4-Chlorotoluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	106-43-4	W
1,2-Dibromo-3-chloropropane	<82.3 ug/kg		250	82.3	1	11/16/09 13:01	11/17/09 10:09	96-12-8	W
Dibromochloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	106-93-4	W
Dibromomethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	74-95-3	W
1,2-Dichlorobenzene	<44.4 ug/kg		60.0	44.4	1	11/16/09 13:01	11/17/09 10:09	95-50-1	W
1,3-Dichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	541-73-1	W
1,4-Dichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	106-46-7	W
Dichlorodifluoromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	75-71-8	W
1,1-Dichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	75-34-3	W
1,2-Dichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	107-06-2	W
1,1-Dichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	75-35-4	W
cis-1,2-Dichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	156-59-2	W
trans-1,2-Dichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	156-60-5	W
1,2-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	78-87-5	W
1,3-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	142-28-9	W
2,2-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	594-20-7	W
1,1-Dichloropropene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	563-58-6	W
cis-1,3-Dichloropropene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	10061-01-5	W
trans-1,3-Dichloropropene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	10061-02-6	W
Diisopropyl ether	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	108-20-3	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	100-41-4	W
Hexachloro-1,3-butadiene	<26.4 ug/kg		60.0	26.4	1	11/16/09 13:01	11/17/09 10:09	87-68-3	W
Isopropylbenzene (Cumene)	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	98-82-8	W
p-Isopropyltoluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	99-87-6	W
Methylene Chloride	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	75-09-2	W
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	91-20-3	W
n-Propylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	103-65-1	W
Styrene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	100-42-5	W

ANALYTICAL RESULTS

Project: WI000944.0004.00001 HOFFMAN CL

Pace Project No.: 4025387

Sample: GP-111 (10-12) Lab ID: 4025387001 Collected: 11/12/09 11:00 Received: 11/13/09 11:30 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									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	79-34-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	108-88-3	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	87-61-6	W
1,2,4-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	120-82-1	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	71-55-6	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	79-00-5	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	75-69-4	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	96-18-4	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	108-67-8	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	75-01-4	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/16/09 13:01	11/17/09 10:09	1330-20-7	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 10:09	95-47-6	W
Dibromofluoromethane (S)	114	%	70-150		1	11/16/09 13:01	11/17/09 10:09	1868-53-7	
Toluene-d8 (S)	115	%	70-155		1	11/16/09 13:01	11/17/09 10:09	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-147		1	11/16/09 13:01	11/17/09 10:09	460-00-4	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture	4.0	%	0.10	0.10	1		11/18/09 08:17		
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ANALYTICAL RESULTS

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

Sample: GP-111 (14-16) Lab ID: 4025387002 Collected: 11/12/09 11:00 Received: 11/13/09 11:30 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							
Benzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	71-43-2	W
Bromobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	108-86-1	W
Bromochloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	74-97-5	W
Bromodichloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	75-27-4	W
Bromoform	<25.9 ug/kg		60.0	25.9	1	11/16/09 13:01	11/17/09 10:32	75-25-2	W
Bromomethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	74-83-9	W
n-Butylbenzene	<40.4 ug/kg		60.0	40.4	1	11/16/09 13:01	11/17/09 10:32	104-51-8	W
sec-Butylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	135-98-8	W
tert-Butylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	98-06-6	W
Carbon tetrachloride	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	56-23-5	W
Chlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	108-90-7	W
Chloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	75-00-3	W
Chloroform	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	67-66-3	W
Chloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	74-87-3	W
2-Chlorotoluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	95-49-8	W
4-Chlorotoluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	106-43-4	W
1,2-Dibromo-3-chloropropane	<82.3 ug/kg		250	82.3	1	11/16/09 13:01	11/17/09 10:32	96-12-8	W
Dibromochloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	106-93-4	W
Dibromomethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	74-95-3	W
1,2-Dichlorobenzene	<44.4 ug/kg		60.0	44.4	1	11/16/09 13:01	11/17/09 10:32	95-50-1	W
1,3-Dichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	541-73-1	W
1,4-Dichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	106-46-7	W
Dichlorodifluoromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	75-71-8	W
1,1-Dichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	75-34-3	W
1,2-Dichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	107-06-2	W
1,1-Dichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	75-35-4	W
cis-1,2-Dichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	156-59-2	W
trans-1,2-Dichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	156-60-5	W
1,2-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	78-87-5	W
1,3-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	142-28-9	W
2,2-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	594-20-7	W
1,1-Dichloropropene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	563-58-6	W
cis-1,3-Dichloropropene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	10061-01-5	W
trans-1,3-Dichloropropene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	10061-02-6	W
Diisopropyl ether	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	108-20-3	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	100-41-4	W
Hexachloro-1,3-butadiene	<26.4 ug/kg		60.0	26.4	1	11/16/09 13:01	11/17/09 10:32	87-68-3	W
Isopropylbenzene (Cumene)	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	98-82-8	W
p-Isopropyltoluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	99-87-6	W
Methylene Chloride	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	75-09-2	W
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	91-20-3	W
n-Propylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	103-65-1	W
Styrene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	100-42-5	W

ANALYTICAL RESULTS

Project: WI000944.0004.00001 HOFFMAN CL

Pace Project No.: 4025387

Sample: GP-111 (14-16) Lab ID: 4025387002 Collected: 11/12/09 11:00 Received: 11/13/09 11:30 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							
1,1,1,2-Tetrachloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	79-34-5	W
Tetrachloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	127-18-4	W
Toluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	108-88-3	W
1,2,3-Trichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	87-61-6	W
1,2,4-Trichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	120-82-1	W
1,1,1-Trichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	71-55-6	W
1,1,2-Trichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	79-00-5	W
Trichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	79-01-6	W
Trichlorofluoromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	75-69-4	W
1,2,3-Trichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	96-18-4	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	108-67-8	W
Vinyl chloride	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	75-01-4	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	11/16/09 13:01	11/17/09 10:32	1330-20-7	W
o-Xylene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:32	95-47-6	W
Dibromofluoromethane (S)	103 %		70-150		1	11/16/09 13:01	11/17/09 10:32	1868-53-7	
Toluene-d8 (S)	104 %		70-155		1	11/16/09 13:01	11/17/09 10:32	2037-26-5	
4-Bromofluorobenzene (S)	89 %		70-147		1	11/16/09 13:01	11/17/09 10:32	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	15.9 %		0.10	0.10	1		11/18/09 08:17		

ANALYTICAL RESULTS

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

Sample: GP-112 (10-12) Lab ID: 4025387003 Collected: 11/12/09 12:15 Received: 11/13/09 11:30 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							
Benzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	71-43-2	W
Bromobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	108-86-1	W
Bromochloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	74-97-5	W
Bromodichloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	75-27-4	W
Bromoform	<25.9 ug/kg		60.0	25.9	1	11/16/09 13:01	11/17/09 10:55	75-25-2	W
Bromomethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	74-83-9	W
n-Butylbenzene	<40.4 ug/kg		60.0	40.4	1	11/16/09 13:01	11/17/09 10:55	104-51-8	W
sec-Butylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	135-98-8	W
tert-Butylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	98-06-6	W
Carbon tetrachloride	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	56-23-5	W
Chlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	108-90-7	W
Chloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	75-00-3	W
Chloroform	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	67-66-3	W
Chloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	74-87-3	W
2-Chlorotoluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	95-49-8	W
4-Chlorotoluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	106-43-4	W
1,2-Dibromo-3-chloropropane	<82.3 ug/kg		250	82.3	1	11/16/09 13:01	11/17/09 10:55	96-12-8	W
Dibromochloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	106-93-4	W
Dibromomethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	74-95-3	W
1,2-Dichlorobenzene	<44.4 ug/kg		60.0	44.4	1	11/16/09 13:01	11/17/09 10:55	95-50-1	W
1,3-Dichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	541-73-1	W
1,4-Dichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	106-46-7	W
Dichlorodifluoromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	75-71-8	W
1,1-Dichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	75-34-3	W
1,2-Dichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	107-06-2	W
1,1-Dichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	75-35-4	W
cis-1,2-Dichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	156-59-2	W
trans-1,2-Dichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	156-60-5	W
1,2-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	78-87-5	W
1,3-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	142-28-9	W
2,2-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	594-20-7	W
1,1-Dichloropropene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	563-58-6	W
cis-1,3-Dichloropropene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	10061-01-5	W
trans-1,3-Dichloropropene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	10061-02-6	W
Diisopropyl ether	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	108-20-3	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	100-41-4	W
Hexachloro-1,3-butadiene	<26.4 ug/kg		60.0	26.4	1	11/16/09 13:01	11/17/09 10:55	87-68-3	W
Isopropylbenzene (Cumene)	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	98-82-8	W
p-Isopropyltoluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	99-87-6	W
Methylene Chloride	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	75-09-2	W
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	91-20-3	W
n-Propylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	103-65-1	W
Styrene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	100-42-5	W

ANALYTICAL RESULTS

Project: WI000944.0004.00001 HOFFMAN CL

Pace Project No.: 4025387

Sample: **GP-112 (10-12)** Lab ID: **4025387003** Collected: 11/12/09 12:15 Received: 11/13/09 11:30 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							
1,1,1,2-Tetrachloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	79-34-5	W
Tetrachloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	127-18-4	W
Toluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	108-88-3	W
1,2,3-Trichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	87-61-6	W
1,2,4-Trichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	120-82-1	W
1,1,1-Trichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	71-55-6	W
1,1,2-Trichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	79-00-5	W
Trichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	79-01-6	W
Trichlorofluoromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	75-69-4	W
1,2,3-Trichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	96-18-4	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	108-67-8	W
Vinyl chloride	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	75-01-4	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	11/16/09 13:01	11/17/09 10:55	1330-20-7	W
o-Xylene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 10:55	95-47-6	W
Dibromofluoromethane (S)	110 %		70-150		1	11/16/09 13:01	11/17/09 10:55	1868-53-7	
Toluene-d8 (S)	113 %		70-155		1	11/16/09 13:01	11/17/09 10:55	2037-26-5	
4-Bromofluorobenzene (S)	99 %		70-147		1	11/16/09 13:01	11/17/09 10:55	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	7.0 %		0.10	0.10	1		11/18/09 08:17		
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ANALYTICAL RESULTS

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

Sample: GP-112 (14-16) Lab ID: 4025387004 Collected: 11/12/09 12:15 Received: 11/13/09 11:30 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							
Benzene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	75-27-4	W
Bromoform	<25.9	ug/kg	60.0	25.9	1	11/16/09 13:01	11/17/09 11:19	75-25-2	W
Bromomethane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	74-83-9	W
n-Butylbenzene	<40.4	ug/kg	60.0	40.4	1	11/16/09 13:01	11/17/09 11:19	104-51-8	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	98-06-6	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	108-90-7	W
Chloroethane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	75-00-3	W
Chloroform	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	74-87-3	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	106-43-4	W
1,2-Dibromo-3-chloropropane	<82.3	ug/kg	250	82.3	1	11/16/09 13:01	11/17/09 11:19	96-12-8	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	106-93-4	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	74-95-3	W
1,2-Dichlorobenzene	<44.4	ug/kg	60.0	44.4	1	11/16/09 13:01	11/17/09 11:19	95-50-1	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	541-73-1	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	106-46-7	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	75-71-8	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	75-34-3	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	107-06-2	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	75-35-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	156-59-2	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	156-60-5	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	78-87-5	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	142-28-9	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	594-20-7	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	563-58-6	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	10061-01-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	10061-02-6	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	100-41-4	W
Hexachloro-1,3-butadiene	<26.4	ug/kg	60.0	26.4	1	11/16/09 13:01	11/17/09 11:19	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	98-82-8	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	99-87-6	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	75-09-2	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	91-20-3	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	103-65-1	W
Styrene	<25.0	ug/kg	60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	100-42-5	W

ANALYTICAL RESULTS

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

Sample: GP-112 (14-16) Lab ID: 4025387004 Collected: 11/12/09 12:15 Received: 11/13/09 11:30 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							
1,1,1,2-Tetrachloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	79-34-5	W
Tetrachloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	127-18-4	W
Toluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	108-88-3	W
1,2,3-Trichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	87-61-6	W
1,2,4-Trichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	120-82-1	W
1,1,1-Trichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	71-55-6	W
1,1,2-Trichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	79-00-5	W
Trichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	79-01-6	W
Trichlorofluoromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	75-69-4	W
1,2,3-Trichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	96-18-4	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	108-67-8	W
Vinyl chloride	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	75-01-4	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	11/16/09 13:01	11/17/09 11:19	1330-20-7	W
o-Xylene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 11:19	95-47-6	W
Dibromofluoromethane (S)	107 %		70-150		1	11/16/09 13:01	11/17/09 11:19	1868-53-7	
Toluene-d8 (S)	108 %		70-155		1	11/16/09 13:01	11/17/09 11:19	2037-26-5	
4-Bromofluorobenzene (S)	94 %		70-147		1	11/16/09 13:01	11/17/09 11:19	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	15.0 %		0.10	0.10	1		11/18/09 08:17		

ANALYTICAL RESULTS

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

Sample: MEOH BLANK Lab ID: 4025387005 Collected: 11/12/09 00:00 Received: 11/13/09 11:30 Matrix: Solid
Results reported on a "wet-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							
Benzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	71-43-2	W
Bromobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	108-86-1	W
Bromochloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	74-97-5	W
Bromodichloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	75-27-4	W
Bromoform	<25.9 ug/kg		60.0	25.9	1	11/16/09 13:01	11/17/09 09:23	75-25-2	W
Bromomethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	74-83-9	W
n-Butylbenzene	<40.4 ug/kg		60.0	40.4	1	11/16/09 13:01	11/17/09 09:23	104-51-8	W
sec-Butylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	135-98-8	W
tert-Butylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	98-06-6	W
Carbon tetrachloride	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	56-23-5	W
Chlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	108-90-7	W
Chloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	75-00-3	W
Chloroform	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	67-66-3	W
Chloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	74-87-3	W
2-Chlorotoluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	95-49-8	W
4-Chlorotoluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	106-43-4	W
1,2-Dibromo-3-chloropropane	<82.3 ug/kg		250	82.3	1	11/16/09 13:01	11/17/09 09:23	96-12-8	W
Dibromochloromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	124-48-1	W
1,2-Dibromoethane (EDB)	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	106-93-4	W
Dibromomethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	74-95-3	W
1,2-Dichlorobenzene	<44.4 ug/kg		60.0	44.4	1	11/16/09 13:01	11/17/09 09:23	95-50-1	W
1,3-Dichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	541-73-1	W
1,4-Dichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	106-46-7	W
Dichlorodifluoromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	75-71-8	W
1,1-Dichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	75-34-3	W
1,2-Dichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	107-06-2	W
1,1-Dichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	75-35-4	W
cis-1,2-Dichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	156-59-2	W
trans-1,2-Dichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	156-60-5	W
1,2-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	78-87-5	W
1,3-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	142-28-9	W
2,2-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	594-20-7	W
1,1-Dichloropropene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	563-58-6	W
cis-1,3-Dichloropropene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	10061-01-5	W
trans-1,3-Dichloropropene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	10061-02-6	W
Diisopropyl ether	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	108-20-3	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	100-41-4	W
Hexachloro-1,3-butadiene	<26.4 ug/kg		60.0	26.4	1	11/16/09 13:01	11/17/09 09:23	87-68-3	W
Isopropylbenzene (Cumene)	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	98-82-8	W
p-Isopropyltoluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	99-87-6	W
Methylene Chloride	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	75-09-2	W
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	91-20-3	W
n-Propylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	103-65-1	W
Styrene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	100-42-5	W

ANALYTICAL RESULTS

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

Sample: MEOH BLANK Lab ID: 4025387005 Collected: 11/12/09 00:00 Received: 11/13/09 11:30 Matrix: Solid
Results reported on a "wet-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							
1,1,1,2-Tetrachloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	630-20-6	W
1,1,2,2-Tetrachloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	79-34-5	W
Tetrachloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	127-18-4	W
Toluene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	108-88-3	W
1,2,3-Trichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	87-61-6	W
1,2,4-Trichlorobenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	120-82-1	W
1,1,1-Trichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	71-55-6	W
1,1,2-Trichloroethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	79-00-5	W
Trichloroethene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	79-01-6	W
Trichlorofluoromethane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	75-69-4	W
1,2,3-Trichloropropane	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	96-18-4	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	108-67-8	W
Vinyl chloride	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	75-01-4	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	11/16/09 13:01	11/17/09 09:23	1330-20-7	W
o-Xylene	<25.0 ug/kg		60.0	25.0	1	11/16/09 13:01	11/17/09 09:23	95-47-6	W
Dibromofluoromethane (S)	105 %		70-150		1	11/16/09 13:01	11/17/09 09:23	1868-53-7	
Toluene-d8 (S)	104 %		70-155		1	11/16/09 13:01	11/17/09 09:23	2037-26-5	
4-Bromofluorobenzene (S)	94 %		70-147		1	11/16/09 13:01	11/17/09 09:23	460-00-4	

QUALITY CONTROL DATA

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

QC Batch: MSV/6147 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 4025387001, 4025387002, 4025387003, 4025387004, 4025387005

METHOD BLANK: 235683 Matrix: Solid
Associated Lab Samples: 4025387001, 4025387002, 4025387003, 4025387004, 4025387005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<25.0	60.0	11/16/09 16:46	
1,1,1-Trichloroethane	ug/kg	<25.0	60.0	11/16/09 16:46	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	60.0	11/16/09 16:46	
1,1,2-Trichloroethane	ug/kg	<25.0	60.0	11/16/09 16:46	
1,1-Dichloroethane	ug/kg	<25.0	60.0	11/16/09 16:46	
1,1-Dichloroethene	ug/kg	<25.0	60.0	11/16/09 16:46	
1,1-Dichloropropene	ug/kg	<25.0	60.0	11/16/09 16:46	
1,2,3-Trichlorobenzene	ug/kg	<25.0	60.0	11/16/09 16:46	
1,2,3-Trichloropropane	ug/kg	<25.0	60.0	11/16/09 16:46	
1,2,4-Trichlorobenzene	ug/kg	<25.0	60.0	11/16/09 16:46	
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	11/16/09 16:46	
1,2-Dibromo-3-chloropropane	ug/kg	<82.3	250	11/16/09 16:46	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	60.0	11/16/09 16:46	
1,2-Dichlorobenzene	ug/kg	<44.4	60.0	11/16/09 16:46	
1,2-Dichloroethane	ug/kg	<25.0	60.0	11/16/09 16:46	
1,2-Dichloropropane	ug/kg	<25.0	60.0	11/16/09 16:46	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	11/16/09 16:46	
1,3-Dichlorobenzene	ug/kg	<25.0	60.0	11/16/09 16:46	
1,3-Dichloropropane	ug/kg	<25.0	60.0	11/16/09 16:46	
1,4-Dichlorobenzene	ug/kg	<25.0	60.0	11/16/09 16:46	
2,2-Dichloropropane	ug/kg	<25.0	60.0	11/16/09 16:46	
2-Chlorotoluene	ug/kg	<25.0	60.0	11/16/09 16:46	
4-Chlorotoluene	ug/kg	<25.0	60.0	11/16/09 16:46	
Benzene	ug/kg	<25.0	60.0	11/16/09 16:46	
Bromobenzene	ug/kg	<25.0	60.0	11/16/09 16:46	
Bromochloromethane	ug/kg	<25.0	60.0	11/16/09 16:46	
Bromodichloromethane	ug/kg	<25.0	60.0	11/16/09 16:46	
Bromoform	ug/kg	<25.9	60.0	11/16/09 16:46	
Bromomethane	ug/kg	<25.0	60.0	11/16/09 16:46	
Carbon tetrachloride	ug/kg	<25.0	60.0	11/16/09 16:46	
Chlorobenzene	ug/kg	<25.0	60.0	11/16/09 16:46	
Chloroethane	ug/kg	<25.0	60.0	11/16/09 16:46	
Chloroform	ug/kg	<25.0	60.0	11/16/09 16:46	
Chloromethane	ug/kg	<25.0	60.0	11/16/09 16:46	
cis-1,2-Dichloroethene	ug/kg	<25.0	60.0	11/16/09 16:46	
cis-1,3-Dichloropropene	ug/kg	<25.0	60.0	11/16/09 16:46	
Dibromochloromethane	ug/kg	<25.0	60.0	11/16/09 16:46	
Dibromomethane	ug/kg	<25.0	60.0	11/16/09 16:46	
Dichlorodifluoromethane	ug/kg	<25.0	60.0	11/16/09 16:46	
Diisopropyl ether	ug/kg	<25.0	60.0	11/16/09 16:46	
Ethylbenzene	ug/kg	<25.0	60.0	11/16/09 16:46	
Hexachloro-1,3-butadiene	ug/kg	92.0	60.0	11/16/09 16:46	
Isopropylbenzene (Cumene)	ug/kg	<25.0	60.0	11/16/09 16:46	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

METHOD BLANK: 235683 Matrix: Solid
Associated Lab Samples: 4025387001, 4025387002, 4025387003, 4025387004, 4025387005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/kg	<50.0	120	11/16/09 16:46	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	11/16/09 16:46	
Methylene Chloride	ug/kg	<25.0	60.0	11/16/09 16:46	
n-Butylbenzene	ug/kg	<40.4	60.0	11/16/09 16:46	
n-Propylbenzene	ug/kg	<25.0	60.0	11/16/09 16:46	
Naphthalene	ug/kg	<25.0	60.0	11/16/09 16:46	
o-Xylene	ug/kg	<25.0	60.0	11/16/09 16:46	
p-Isopropyltoluene	ug/kg	<25.0	60.0	11/16/09 16:46	
sec-Butylbenzene	ug/kg	<25.0	60.0	11/16/09 16:46	
Styrene	ug/kg	<25.0	60.0	11/16/09 16:46	
tert-Butylbenzene	ug/kg	<25.0	60.0	11/16/09 16:46	
Tetrachloroethene	ug/kg	<25.0	60.0	11/16/09 16:46	
Toluene	ug/kg	<25.0	60.0	11/16/09 16:46	
trans-1,2-Dichloroethene	ug/kg	<25.0	60.0	11/16/09 16:46	
trans-1,3-Dichloropropene	ug/kg	<25.0	60.0	11/16/09 16:46	
Trichloroethene	ug/kg	<25.0	60.0	11/16/09 16:46	
Trichlorofluoromethane	ug/kg	<25.0	60.0	11/16/09 16:46	
Vinyl chloride	ug/kg	<25.0	60.0	11/16/09 16:46	
4-Bromofluorobenzene (S)	%	102	70-147	11/16/09 16:46	
Dibromofluoromethane (S)	%	107	70-150	11/16/09 16:46	
Toluene-d8 (S)	%	112	70-155	11/16/09 16:46	

LABORATORY CONTROL SAMPLE & LCSD: 235684

235685

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	2460	2490	98	100	68-140	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2670	2660	107	106	67-131	.3	20	
1,1,2-Trichloroethane	ug/kg	2500	2530	2540	101	102	70-130	.6	20	
1,1-Dichloroethane	ug/kg	2500	2570	2570	103	103	70-130	.03	20	
1,1-Dichloroethene	ug/kg	2500	2560	2630	102	105	70-133	3	20	
1,2-Dichloroethane	ug/kg	2500	2540	2500	102	100	70-132	2	20	
1,2-Dichloropropane	ug/kg	2500	2480	2520	99	101	70-130	2	20	
Benzene	ug/kg	2500	2690	2680	108	107	70-130	.3	20	
Bromodichloromethane	ug/kg	2500	2380	2450	95	98	70-130	3	20	
Bromoform	ug/kg	2500	2600	2630	104	105	70-130	1	20	
Bromomethane	ug/kg	2500	2570	2550	103	102	65-153	.9	20	
Carbon tetrachloride	ug/kg	2500	2560	2580	102	103	70-142	.9	20	
Chlorobenzene	ug/kg	2500	2550	2590	102	104	70-130	2	20	
Chloroethane	ug/kg	2500	2730	2730	109	109	70-178	.3	20	
Chloroform	ug/kg	2500	2500	2530	100	101	70-130	1	20	
Chloromethane	ug/kg	2500	2480	2540	99	102	53-143	2	20	
cis-1,2-Dichloroethene	ug/kg	2500	2630	2620	105	105	70-130	.5	20	
cis-1,3-Dichloropropene	ug/kg	2500	2580	2690	103	108	70-130	4	20	
Dibromochloromethane	ug/kg	2500	2380	2410	95	96	70-130	1	20	
Ethylbenzene	ug/kg	2500	2960	3070	118	123	70-130	4	20	

QUALITY CONTROL DATA

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

LABORATORY CONTROL SAMPLE & LCSD: 235684		235685								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/kg	5000	5460	5620	109	112	70-130	3	20	
Methylene Chloride	ug/kg	2500	2530	2500	101	100	70-134	1	20	
o-Xylene	ug/kg	2500	2630	2660	105	107	70-130	1	20	
Styrene	ug/kg	2500	2390	2420	96	97	70-130	1	20	
Tetrachloroethene	ug/kg	2500	2530	2580	101	103	70-130	2	20	
Toluene	ug/kg	2500	2870	2930	115	117	70-130	2	20	
trans-1,2-Dichloroethene	ug/kg	2500	2580	2540	103	102	67-130	2	20	
trans-1,3-Dichloropropene	ug/kg	2500	2320	2340	93	93	70-130	.8	20	
Trichloroethene	ug/kg	2500	2570	2650	103	106	70-130	3	20	
Vinyl chloride	ug/kg	2500	2550	2550	102	102	70-130	.2	20	
4-Bromofluorobenzene (S)	%				105	104	70-147			
Dibromofluoromethane (S)	%				109	108	70-150			
Toluene-d8 (S)	%				113	114	70-155			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 235686		235687												
Parameter	Units	4025349008		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec	RPD	RPD				
1,1,1-Trichloroethane	ug/kg	<61.9	3120	3120	3160	2930	101	94	52-153	7	20			
1,1,2,2-Tetrachloroethane	ug/kg	<61.9	3120	3120	3430	3230	110	103	61-139	6	20			
1,1,2-Trichloroethane	ug/kg	<61.9	3120	3120	3290	3030	106	97	66-133	8	20			
1,1-Dichloroethane	ug/kg	<61.9	3120	3120	3200	2960	102	95	62-139	8	20			
1,1-Dichloroethene	ug/kg	<61.9	3120	3120	3060	2840	98	91	55-146	7	20			
1,2-Dichloroethane	ug/kg	<30.9	3120	3120	3210	2910	103	93	56-153	10	20			
1,2-Dichloropropane	ug/kg	<61.9	3120	3120	3240	2940	104	94	66-136	10	20			
Benzene	ug/kg	<30.9	3120	3120	3350	3140	107	100	68-130	6	20			
Bromodichloromethane	ug/kg	<61.9	3120	3120	3110	2840	100	91	51-154	9	20			
Bromoform	ug/kg	<61.9	3120	3120	3340	2990	107	96	50-146	11	20			
Bromomethane	ug/kg	<61.9	3120	3120	2820	2700	90	86	44-158	5	20			
Carbon tetrachloride	ug/kg	<61.9	3120	3120	3280	3040	105	97	49-162	8	20			
Chlorobenzene	ug/kg	<61.9	3120	3120	3270	2950	105	94	68-138	10	20			
Chloroethane	ug/kg	<61.9	3120	3120	3250	3270	104	105	49-163	.8	20			
Chloroform	ug/kg	<30.9	3120	3120	3200	2980	102	95	59-140	7	20			
Chloromethane	ug/kg	<61.9	3120	3120	2650	2510	85	80	45-130	5	20			
cis-1,2-Dichloroethene	ug/kg	<61.9	3120	3120	3260	3010	104	96	57-138	8	20			
cis-1,3-Dichloropropene	ug/kg	<61.9	3120	3120	3400	3120	109	100	58-143	9	20			
Dibromochloromethane	ug/kg	<61.9	3120	3120	3090	2820	99	90	50-144	9	20			
Ethylbenzene	ug/kg	<30.9	3120	3120	3860	3530	123	112	69-139	9	20			
m&p-Xylene	ug/kg	65.8	6250	6250	7080	6440	112	102	70-141	9	20			
Methylene Chloride	ug/kg	<61.9	3120	3120	3110	2760	99	89	66-133	12	20			
o-Xylene	ug/kg	83.4	3120	3120	3450	3140	108	98	68-141	9	20			
Styrene	ug/kg	<61.9	3120	3120	3060	2750	98	88	62-135	11	20			
Tetrachloroethene	ug/kg	<61.9	3120	3120	3300	2980	105	95	64-142	10	20			
Toluene	ug/kg	70.5	3120	3120	3780	3530	119	111	70-133	7	20			
trans-1,2-Dichloroethene	ug/kg	<61.9	3120	3120	3160	2780	101	89	54-140	13	20			
trans-1,3-Dichloropropene	ug/kg	<61.9	3120	3120	3000	2720	96	87	46-151	10	20			
Trichloroethene	ug/kg	<61.9	3120	3120	3340	3050	107	98	64-143	9	20			

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QUALITY CONTROL DATA

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 235686		235687		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		4025349008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result										
Vinyl chloride	ug/kg	<61.9	3120	3120	2670	2450		85	79	48-130	8	20			
4-Bromofluorobenzene (S)	%							108	96	70-147					
Dibromofluoromethane (S)	%							110	101	70-150					
Toluene-d8 (S)	%							117	106	70-155					

QUALITY CONTROL DATA

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

QC Batch: PMST/3337 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4025387001, 4025387002, 4025387003, 4025387004

SAMPLE DUPLICATE: 236236

Parameter	Units	4025387001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.0	3.9	3	10	

QUALIFIERS

Project: WI000944.0004.00001 HOFFMAN CL
Pace Project No.: 4025387

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.

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.

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

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WI000944.0004.00001 HOFFMAN CL

Pace Project No.: 4025387

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4025387001	GP-111 (10-12)	EPA 5035/5030B	MSV/6147	EPA 8260	MSV/6148
4025387002	GP-111 (14-16)	EPA 5035/5030B	MSV/6147	EPA 8260	MSV/6148
4025387003	GP-112 (10-12)	EPA 5035/5030B	MSV/6147	EPA 8260	MSV/6148
4025387004	GP-112 (14-16)	EPA 5035/5030B	MSV/6147	EPA 8260	MSV/6148
4025387005	MEOH BLANK	EPA 5035/5030B	MSV/6147	EPA 8260	MSV/6148
4025387001	GP-111 (10-12)	ASTM D2974-87	PMST/3337		
4025387002	GP-111 (14-16)	ASTM D2974-87	PMST/3337		
4025387003	GP-112 (10-12)	ASTM D2974-87	PMST/3337		
4025387004	GP-112 (14-16)	ASTM D2974-87	PMST/3337		