



A Division of SET Environmental Inc
735 North Water Street, Suite 510
Milwaukee, Wisconsin 53202
Phone: 414-224-8300
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March 13, 2019

Remediation and Redevelopment Program Assistant
Wisconsin Department of Natural Resources
2300 North Martin Luther King Drive
Milwaukee, Wisconsin 53212

Subject: *No Action Required Request*
8655 North 43rd Street
Brown Deer, Wisconsin
BRRTS # 02-41-550899
FID 341156860

KEY ENGINEERING GROUP, LTD.
File No. 1902-0589-0001

Dear Program Assistant:

The purpose of this letter is to request a No Action Required (NAR) status from the Wisconsin Department of Natural Resources (WDNR) for 8655 North 43rd Street, in the Village of Brown Deer, which is in Milwaukee County, Wisconsin (Site). Key Engineering Group, Ltd. (KEY) has prepared this letter on behalf of CJB LLC, the owner of the Site.

INTRODUCTION

On behalf of CJB LLC, Key Engineering Group, Ltd (KEY) prepared this NAR for the property located at 8655 North 43rd Street, in the Village of Brown Deer, Milwaukee County, Wisconsin. This letter was prepared to describe our interpretation of the Phase II Environmental Site Assessment (ESA) previously submitted, summarize remedial activities that were performed off-site by others, and to provide a recommendation for NAR. A Site map depicting the approximate geographic location is presented as Figure 1. A Site map depicting major Site features and soil probe locations is presented as Figure 2.

BACKGROUND

The following sections provide a summary of the site location, description of the release, and a description of prior site investigative activities completed at the site which indicates that a release did not impact the subject site and that no action is required.

Site Location and Description

The Site is located at 8655 North 43rd Street, in the Village of Brown Deer, Milwaukee County, Wisconsin. The site is approximately 0.93 acres of land with tax key number 0479987001. The site is zoned commercial. The Site is in the northwest quarter of the northwest quarter of Section 28, Township 8 North, Range 21 East. The Site location is presented on Figure 1 (USGS, 1976).

The Site consists of an irregular shaped parcel of land located in a commercial and industrial area. The Site currently consists of one single-story building without a basement, gravel parking, and green space. The building is approximately 4,250 square feet and constructed of block. The Site layout and soil boring locations are presented as Figure 2.

There are no plans for additional development on the property. The land use will remain commercial.

Site Contacts

The following contact information is provided for the Site:

Responsible Party (RP): Jennifer Jambor Raninen
CJB LLC
8655 North 43rd Street
Brown Deer, Wisconsin 53209
Telephone: 414-217-2435
Email: jennifer@designbymodus.com

Environmental Consultant: D'Arcy Gravelle, PCG, PG
Chelsea L. Ames
Key Engineering Group Ltd.
735 North Water Street, Suite 510
Milwaukee, Wisconsin 53202
Telephone: 414.978.4842
Email: dgravelle@keyengineering.com
comes@keyengineering.com

Drillers: Horizon Construction and Exploration
764 Tower Drive
Fredonia, Wisconsin 53021
Telephone: 262.377.2896

Laboratory: Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, Wisconsin 54302
Telephone: 920.469.2436

HISTORICAL INVESTIGATION ACTIVITIES

The subject site was formerly owned by the Village of Brown Deer, who divested it to Hillcrest Landscaping Company, who operated a landscaping business (lawns, snow clearing, etc.). As KEY understands the site history, sometime prior to January 23, 2008 Hillscape Landscaping discharged an oily substance into a floor drain within their shop area. The floor drain was reported to be connected to a sewer pipe that lead off-site to the west, under a bike path, then discharged onto property owned by WE Energies. On January 23, 2008 WE Energies was informed by a passerby that the oil release had occurred on their land. WE Energies notified the WDNR and as a consequence, Hillcrest Landscaping received a Responsible Party (RP) letter on February 5, 2008. On July 6, 2008 WE Energies reported the release on their property (near the outfall) to the WDNR, performed a 6' x 6' excavation, and received case closure on January 8, 1999 (see BRRTs No. 04-41-228030 BIKE PATH WEPCO RIGHT OF WAY).

Hillcrest Landscaping failed to take the necessary actions specified within the RP letter, and as a result, received a Push Action letter from the WDNR on June 4, 2009. Further research by the WDNR determined that Bella Landscaping was the ownership entity for the property in which the discharge took place. As a result, Bella Landscaping received an RP letter on June 11, 2009. Bella Landscaping responded to the WDNR that they had retained a consultant to dig a 10' x 10' portion of land on WE Energies that appeared affected by the release (even though it had already been dug out). Bella Landscaping also opined that the building was formerly owned by the Village of Brown Deer, and that determining what might have been discharged into the sewer over the prior 60 years was not possible. The owner further stated that the drain was abandoned and plugged with concrete.

As KEY understands, Bella Concrete failed to act on the remedial activities and worked with the Village of Brown Deer to transfer the property back to the Village to avoid remediation. The Village of Brown Deer offered the property to various developers, with an agreement that the new owner would remediate the subject site and obtain WDNR case closure. Our client, CJB LLC was the successful purchaser of the subject site and closed on the real estate with an obligation to obtain case closure of the release.

KEY was retained by CJB LLC to assist with obtaining WDNR case closure. A *Limited Site Investigation* was prepared by KEY dated May 25, 2016. A copy of the *Limited Site Investigation* is included in Attachment 1.

SUMMARY OF INVESTIGATION FINDINGS

Soil and groundwater results included:

- Soil was investigated near the sewer where the release occurred (see GP-5).
- Soil and groundwater was investigated along the sewer pipe centerline (GP-1/TW-1)
- No VOCs, PAHs, or PCBs were observed in any of the onsite soil samples, suggesting that the oil did not escaped from the pipe while on the subject site.
- Chrysene, fluoranthene, phenanthrene and pyrene were reported as “J” flagged in groundwater. A “J” flag is an “estimated” concentration that is above a limit of detection, but at a value that is too low to properly quantify. Chrysene was detected in TW-1 as having marginally exceeded the PAL (0.027 ug/l when the PAL is 0.02 ug/l). Further, the groundwater samples were collected from a temporary monitoring well and are likely biased high because of the turbidity of the sample.

NO ACTION REQUIRED REQUEST

No Action Required is requested for the following reasons:

- Sometime prior to January of 1998, oil was discharged into a closed storm sewer that led off-site with discharge onto WE Energies property.
- WE Energies excavated and disposed of the oil contamination near the outfall on their property on January 8, 1999.
- No impacts were detected in shallow or deep soils on the subject site, which included soil near the basin where the oil was released and along the sewer centerline.
- Low level PAH was reported to be in a groundwater sample collected from a temporary well along the east side of the subject site, approximately 15 feet from the floor drain, along the sewer centerline. All four PAH concentrations were “J” flagged and considered estimated by the laboratory because they were too low to properly quantify. The chrysene PAH values was “estimated” to be 0.007 ug/l (seven parts per trillion), which is potentially above the PAL.
- The drain within the building was properly abandoned in 2008.
- There is currently no exterior storage of materials.

It is KEY’s opinion that the release to the floor drain was carried through the sewer pipe and was discharged to the WE Energies subject site, where it was remediated in 2008. Based on the lines of evidence, KEY is requesting No Action Required status for this release.

Please do not hesitate to call us at (414) 224-8300 should the WDNR have any questions regarding this submittal. We look forward to your response.

Sincerely,

KEY ENGINEERING GROUP, LTD.



Chelsea L. Ames
Project Manager



D'Arcy Gravelle, CPG, PG
Principal Hydrogeologist

cc: Ms. Jennifer Jambor-Raninen, CJB LLC (via email: jennifer@designbymodus.com)
Mr. John Hnat, WDNR (via email: John.Hnat@wisconsin.gov)

Attachments

Table 1	Soil Analytical Results
Table 2	Groundwater Analytical Results
Figure 1	Site Location Map
Figure 2	Site Layout Map with Soil Boring Locations
Attachment 1	Limited Site Investigation Report

Notice: Use this form to request a **written response (on agency letterhead)** from the Department of Natural Resources (DNR) regarding technical assistance, a post-closure change to a site, a specialized agreement or liability clarification for Property with known or suspected environmental contamination. A fee will be required as is authorized by s. 292.55, Wis. Stats., and NR 749, Wis. Adm. Code., unless noted in the instructions below. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

Definitions

"Property" refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.

"Liability Clarification" refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55, Wis. Stats.

"Technical Assistance" refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.

"Post-closure modification" refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

Select the Correct Form

This form should be used to request the following from the DNR:

- Technical Assistance
- Liability Clarification
- Post-Closure Modifications
- Specialized Agreements (tax cancellation, negotiated agreements, etc.)

Do not use this form if one of the following applies:

- Request for an **off-site liability exemption or clarification** for Property that has been or is perceived to be contaminated by one or more hazardous substances that originated on another Property containing the source of the contamination. Use DNR's Off-Site Liability Exemption and Liability Clarification Application Form 4400-201.
- Submittal of an Environmental Assessment for the **Lender Liability Exemption**, s 292.21, Wis. Stats., **if no response or review by DNR is requested**. Use the Lender Liability Exemption Environmental Assessment Tracking Form 4400-196.
- Request for an **exemption to develop on a historic fill site** or licensed landfill. Use DNR's Form 4400-226 or 4400-226A.
- **Request for closure** for Property where the investigation and cleanup actions are completed. Use DNR's Case Closure - GIS Registry Form 4400-202.

All forms, publications and additional information are available on the internet at: dnr.wi.gov/topic/Brownfields/Pubs.html.

Instructions

1. Complete sections 1, 2, 6 and 7 for all requests. Be sure to provide adequate and complete information.
2. Select the type of assistance requested: Section 3 for technical assistance or post-closure modifications, Section 4 for a written determination or clarification of environmental liabilities; or Section 5 for a specialized agreement.
3. Include the fee payment that is listed in Section 3, 4, or 5, unless you are a "Voluntary Party" enrolled in the Voluntary Party Liability Exemption Program **and** the questions in Section 2 direct otherwise. Information on to whom and where to send the fee is found in Section 8 of this form.
4. Send the completed request, supporting materials and the fee to the appropriate DNR regional office where the Property is located. See the map on the last page of this form. A paper copy of the signed form and all reports and supporting materials shall be sent with an electronic copy of the form and supporting materials on a compact disk. For electronic document submittal requirements see: <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>

The time required for DNR's determination varies depending on the complexity of the site, and the clarity and completeness of the request and supporting documentation.

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

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Section 1. Contact and Recipient Information

Requester Information

This is the person requesting technical assistance or a post-closure modification review, that his or her liability be clarified or a specialized agreement and is identified as the requester in Section 7. DNR will address its response letter to this person.

Last Name	First	MI	Organization/ Business Name		
Jambor Raninen	Jennifer		CJB LLC		
Mailing Address			City	State	ZIP Code
8655 North 43rd Street			Brown Deer	WI	53209
Phone # (include area code)	Fax # (include area code)	Email			
(414) 217-2435		jennifer@designbymodus.com			

The requester listed above: (select all that apply)

- Is currently the owner Is considering selling the Property
- Is renting or leasing the Property Is considering acquiring the Property
- Is a lender with a mortgagee interest in the Property
- Other. Explain the status of the Property with respect to the applicant:

Contact Information (to be contacted with questions about this request) Select if same as requester

Contact Last Name	First	MI	Organization/ Business Name		
Jambor Raninen	Jennifer		CJB LLC		
Mailing Address			City	State	ZIP Code
8655 North 43rd Street			Brown Deer	WI	53209
Phone # (include area code)	Fax # (include area code)	Email			
(414) 217-2435		jennifer@designbymodus.com			

Environmental Consultant (if applicable)

Contact Last Name	First	MI	Organization/ Business Name		
Ames	Chelsea		Key Engineering Group		
Mailing Address			City	State	ZIP Code
735 North Water Street Suite 510			Milwaukee	WI	53202
Phone # (include area code)	Fax # (include area code)	Email			
(414) 224-8300	(414) 224-8383	comes@keyengineering.com			

Section 2. Property Information

Property Name				FID No. (if known)	
Hillcrest Landscaping Co				341156860	
BRRTS No. (if known)			Parcel Identification Number		
02-41-550899			0479987001		
Street Address			City	State	ZIP Code
8655 North 43rd Street			Brown Deer	WI	53209
County	Municipality where the Property is located		Property is composed of:		Property Size Acres
Milwaukee	<input type="radio"/> City <input type="radio"/> Town <input checked="" type="radio"/> Village of Brown Deer		<input checked="" type="radio"/> Single tax parcel <input type="radio"/> Multiple tax parcels		1

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1. Is a response needed by a specific date? (e.g., Property closing date) Note: Most requests are completed within 60 days. Please plan accordingly.

No Yes

Date requested by: _____

Reason: _____

2. Is the "Requester" enrolled as a Voluntary Party in the Voluntary Party Liability Exemption (VPLE) program?

No. **Include the fee that is required for your request in Section 3, 4 or 5.**

Yes. **Do not include a separate fee.** This request will be billed separately through the VPLE Program.

Fill out the information in Section 3, 4 or 5 which corresponds with the type of request:

Section 3. Technical Assistance or Post-Closure Modifications;

Section 4. Liability Clarification; or Section 5. Specialized Agreement.

Section 3. Request for Technical Assistance or Post-Closure Modification

Select the type of technical assistance requested: [Numbers in brackets are for WI DNR Use]

- No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - **Include a fee of \$350.** Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.
- Review of Site Investigation Work Plan - NR 716.09, [135] - **Include a fee of \$700.**
- Review of Site Investigation Report - NR 716.15, [137] - **Include a fee of \$1050.**
- Approval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - **Include a fee of \$1050.**
- Review of a Remedial Action Options Report - NR 722.13, [143] - **Include a fee of \$1050.**
- Review of a Remedial Action Design Report - NR 724.09, [148] - **Include a fee of \$1050.**
- Review of a Remedial Action Documentation Report - NR 724.15, [152] - **Include a fee of \$350**
- Review of a Long-term Monitoring Plan - NR 724.17, [25] - **Include a fee of \$425.**
- Review of an Operation and Maintenance Plan - NR 724.13, [192] - **Include a fee of \$425.**

Other Technical Assistance - s. 292.55, Wis. Stats. [97] (For request to build on an abandoned landfill use Form 4400-226)

- Schedule a Technical Assistance Meeting - **Include a fee of \$700.**
- Hazardous Waste Determination - **Include a fee of \$700.**
- Other Technical Assistance - **Include a fee of \$700.** Explain your request in an attachment.

Post-Closure Modifications - NR 727, [181]

- Post-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; sites may be on the GIS Registry. This also includes removal of a site or Property from the GIS Registry. **Include a fee of \$1050, and:**
 - Include a fee of \$300 for sites with residual soil contamination; and
 - Include a fee of \$350 for sites with residual groundwater contamination, monitoring wells or for vapor intrusion continuing obligations.

Attach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change to a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents may be submitted later in the approval process, on a case-by-case basis).

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Clarification or Post-Closure Modification Request**

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Skip Sections 4 and 5 if the technical assistance you are requesting is listed above and complete Sections 6 and 7 of this form.

Section 4. Request for Liability Clarification

Select the type of liability clarification requested. Use the available space given or attach information, explanations, or specific questions that you need answered in DNR's reply. Complete Sections 6 and 7 of this form. **[Numbers in brackets are for DNR Use]**

"Lender" liability exemption clarification - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of \$700.**

Provide the following documentation:

- (1) ownership status of the real Property, and/or the personal Property and fixtures;
- (2) an environmental assessment, in accordance with s. 292.21, Wis. Stats.;
- (3) the date the environmental assessment was conducted by the lender;
- (4) the date of the Property acquisition; for foreclosure actions, include a copy of the signed and dated court order confirming the sheriff's sale.
- (5) documentation showing how the Property was acquired and the steps followed under the appropriate state statutes.
- (6) a copy of the Property deed with the correct legal description; and,
- (7) the Lender Liability Exemption Environmental Assessment Tracking Form (Form 4400-196).
- (8) If no sampling was done, please provide reasoning as to why it was **not** conducted. Include this either in the accompanying environmental assessment or as an attachment to this form, and cite language in s. 292.21(1)(c)2., h.-i., Wis. Stats.:
 - h. The collection and analysis of representative samples of soil or other materials in the ground that are suspected of being contaminated based on observations made during a visual inspection of the real Property or based on aerial photographs, or other information available to the lender, including stained or discolored soil or other materials in the ground and including soil or materials in the ground in areas with dead or distressed vegetation. The collection and analysis shall identify contaminants in the soil or other materials in the ground and shall quantify concentrations.
 - i. The collection and analysis of representative samples of unknown wastes or potentially hazardous substances found on the real Property and the determination of concentrations of hazardous waste and hazardous substances found in tanks, drums or other containers or in piles or lagoons on the real Property.

"Representative" liability exemption clarification (e.g. trustees, receivers, etc.) - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of \$700.**

Provide the following documentation:

- (1) ownership status of the Property;
- (2) the date of Property acquisition by the representative;
- (3) the means by which the Property was acquired;
- (4) documentation that the representative has no beneficial interest in any entity that owns, possesses, or controls the Property;
- (5) documentation that the representative has not caused any discharge of a hazardous substance on the Property; and
- (6) a copy of the Property deed with the correct legal description.

Clarification of local governmental unit (LGU) liability exemption at sites with: (select all that apply)

hazardous substances spills - s. 292.11(9)(e), Wis. Stats. [649];

Perceived environmental contamination - [649];

hazardous waste - s. 292.24 (2), Wis. Stats. [649]; and/or

solid waste - s. 292.23 (2), Wis. Stats. [649].

❖ **Include a fee of \$700, a summary of the environmental liability clarification being requested, and the following:**

- (1) clear supporting documentation showing the acquisition method used, and the steps followed under the appropriate state statute(s).
- (2) current and proposed ownership status of the Property;
- (3) date and means by which the Property was acquired by the LGU, where applicable;
- (4) a map and the ¼, ¼ section location of the Property;
- (5) summary of current uses of the Property;
- (6) intended or potential use(s) of the Property;
- (7) descriptions of other investigations that have taken place on the Property; and
- (8) (for solid waste clarifications) a summary of the license history of the facility.

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Clarification or Post-Closure Modification Request**

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Section 4. Request for Liability Clarification (cont.)

Lease liability clarification - s. 292.55, Wis. Stats. [646]

❖ **Include a fee of \$700 for a single Property, or \$1400 for multiple Properties and the information listed below:**

- (1) a copy of the proposed lease;
- (2) the name of the current owner of the Property and the person who will lease the Property;
- (3) a description of the lease holder's association with any persons who have possession, control, or caused a discharge of a hazardous substance on the Property;
- (4) map(s) showing the Property location and any suspected or known sources of contamination detected on the Property;
- (5) a description of the intended use of the Property by the lease holder, with reference to the maps to indicate which areas will be used. Explain how the use will not interfere with any future investigation or cleanup at the Property; and
- (6) all reports or investigations (e.g. Phase I and Phase II Environmental Assessments and/or Site Investigation Reports conducted under s. NR 716, Wis. Adm. Code) that identify areas of the Property where a discharge has occurred.

General or other environmental liability clarification - s. 292.55, Wis. Stats. [682] - Explain your request below.

❖ **Include a fee of \$700 and an adequate summary of relevant environmental work to date.**

No Action Required (NAR) - NR 716.05, [682]

❖ **Include a fee of \$700.**

Use where an environmental discharge has or has not occurred, and applicant wants a DNR determination that no further assessment or clean-up work is required. Usually this is requested after a Phase I and Phase II environmental assessment has been conducted; the assessment reports should be submitted with this form. This is not a closure letter.

Clarify the liability associated with a "closed" Property - s. 292.55, Wis. Stats. [682]

❖ **Include a fee of \$700.**

- Include a copy of any closure documents if a state agency other than DNR approved the closure.

Use this space or attach additional sheets to provide necessary information, explanations or specific questions to be answered by the DNR.

Section 5. Request for a Specialized Agreement

Select the type of agreement needed. Include the appropriate draft agreements and supporting materials. Complete Sections 6 and 7 of this form. More information and model draft agreements are available at: dnr.wi.gov/topic/Brownfields/Igu.html#tabx4.

Tax cancellation agreement - s. 75.105(2)(d), Wis. Stats. [654]

❖ **Include a fee of \$700, and the information listed below:**

- (1) Phase I and II Environmental Site Assessment Reports,
- (2) a copy of the Property deed with the correct legal description.

Agreement for assignment of tax foreclosure judgement - s.75.106, Wis. Stats. [666]

❖ **Include a fee of \$700, and the information listed below:**

- (1) Phase I and II Environmental Site Assessment Reports,
- (2) a copy of the Property deed with the correct legal description.

Negotiated agreement - Enforceable contract for non-emergency remediation - s. 292.11(7)(d) and (e), Wis. Stats. [630]

❖ **Include a fee of \$1400, and the information listed below:**

- (1) a draft schedule for remediation; and,
- (2) the name, mailing address, phone and email for each party to the agreement.

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Section 6. Other Information Submitted

Identify all materials that are included with this request.

Send both a paper copy of the signed form and all reports and supporting materials, and an electronic copy of the form and all reports, including Environmental Site Assessment Reports, and supporting materials on a compact disk.

Include one copy of any document from any state agency files that you want the Department to review as part of this request. The person submitting this request is responsible for contacting other state agencies to obtain appropriate reports or information.

- Phase I Environmental Site Assessment Report - Date: _____
- Phase II Environmental Site Assessment Report - Date: 05/25/2016
- Legal Description of Property (required for all liability requests and specialized agreements)
- Map of the Property (required for all liability requests and specialized agreements)

Analytical results of the following sampled media: Select all that apply and include date of collection.

- Groundwater
- Soil
- Sediment
- Other medium - Describe: _____

Date of Collection: 05/25/2016

- A copy of the closure letter and submittal materials
- Draft tax cancellation agreement
- Draft agreement for assignment of tax foreclosure judgment
- Other report(s) or information - Describe: _____

For Property with newly identified discharges of hazardous substances only: Has a notification of a discharge of a hazardous substance been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?

- Yes - Date (if known): 01/23/2008
- No

Note: The Notification for Hazardous Substance Discharge (non-emergency) form is available at:
dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf.

Section 7. Certification by the Person who completed this form

- I am the person submitting this request (requester)
- I prepared this request for: CJB LLC

Requester Name

I certify that I am familiar with the information submitted on this request, and that the information on and included with this request is true, accurate and complete to the best of my knowledge. I also certify I have the legal authority and the applicant's permission to make this request.


Signature

3/13/19
Date Signed

Project Manager
Title

(414) 224-8300
Telephone Number (include area code)

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Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a DNR regional brownfields specialist with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see: <http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf>.

DNR NORTHERN REGION
Attn: RR Program Assistant
Department of Natural Resources
223 E Steinfest Rd Antigo, WI 54409

DNR NORTHEAST REGION
Attn: RR Program Assistant
Department of Natural Resources
2984 Shawano Avenue
Green Bay WI 54313

DNR SOUTH CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg WI 53711

DNR SOUTHEAST REGION
Attn: RR Program Assistant
Department of Natural Resources
2300 North Martin Luther King Drive
Milwaukee WI 53212

DNR WEST CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
1300 Clairemont Ave.
Eau Claire WI 54702



Note: These are the Remediation and Redevelopment Program's designated regions. Other DNR program regional boundaries may be different.

DNR Use Only			
Date Received	Date Assigned	BRRTS Activity Code	BRRTS No. (if used)
DNR Reviewer		Comments	
Fee Enclosed? <input type="radio"/> Yes <input type="radio"/> No	Fee Amount \$	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		

Table 1. Soil Analytical Results

PARAMETERS	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	Background Threshold Value	GP-1/TW-1		GP-2		GP-3	
					4/22/2016		4/22/2016		4/22/2016	
					2-4	8-10	2-4	6-8	2-4	6-8
Date Collected										
Depth (feet bgs)										
Saturated(s)/Unsaturated(u)					u	u	u	u	u	u
Detected VOCs (mg/kg)										
Total Detected VOCs	---	---	---	---	ND	ND	ND	ND	ND	ND
Detected PAHs (mg/kg)										
Acenaphthene	3,590	45,200	---	---	<0.011	<0.0098	<0.012	<0.0087	<0.011	<0.0096
Acenaphthylene	---	---	---	---	<0.0096	<0.0088	<0.010	<0.0077	<0.0096	<0.0086
Anthracene	17,900	100,000	196.9492	---	<0.011	<0.010	<0.012	<0.0090	<0.011	<0.0099
Benzo(a)anthracene	1.14	20.8	---	---	<0.0074	<0.0068	<0.0080	<0.0060	<0.0074	<0.0066
Benzo(a)pyrene	0.115	2.11	0.47	---	<0.0077	<0.0070	<0.0082	<0.0062	<0.0077	<0.0068
Benzo(b)fluoranthene	1.15	21.1	0.2390	---	<0.011	<0.0098	<0.012	<0.0087	<0.011	<0.0096
Benzo(g,h,i)perylene	---	---	---	---	<0.0082	<0.0075	<0.0088	<0.0066	<0.0082	<0.0073
Benzo(k)fluoranthene	11.5	211	---	---	<0.012	<0.011	<0.013	<0.0096	<0.012	<0.011
Chrysene	115	2110	0.0721	---	<0.0099	<0.0091	<0.011	<0.0080	<0.0099	<0.0089
Dibenzo(a,h)anthracene	0.115	2.11	---	---	<0.0079	<0.0072	<0.0084	<0.0063	<0.0079	<0.0070
Fluoranthene	2,390	30,100	88.8778	---	<0.011	<0.0098	<0.012	<0.0087	<0.011	<0.0096
Fluorene	2,390	30,100	14.8299	---	<0.011	<0.0098	<0.012	<0.0087	<0.011	<0.0096
Indeno(1,2,3-cd)pyrene	1.15	21.1	---	---	<0.0081	<0.0075	<0.0088	<0.0066	<0.0081	<0.0073
1-methylnaphthalene	17.6	72.7	---	---	<0.011	<0.0098	<0.012	<0.0087	<0.011	<0.0096
2-methylnaphthalene	239	3,010	---	---	<0.011	<0.0098	<0.012	<0.0087	<0.011	<0.0096
Naphthalene	5.52	24.1	0.6582	---	<0.011	<0.0098	<0.012	<0.0087	<0.011	<0.0096
Phenanthrene	---	---	---	---	<0.011	<0.0098	<0.012	<0.0087	<0.011	<0.0096
Pyrene	1,790	22,600	54.5455	---	<0.011	<0.0098	<0.012	<0.0087	<0.011	<0.0096
PCBs										
PCB-1016	---	---	---	---	<0.032	<0.029	<0.035	<0.026	<0.032	<0.029
PCB-1221	---	---	---	---	<0.032	<0.029	<0.035	<0.026	<0.032	<0.029
PCB-1232	---	---	---	---	<0.032	<0.029	<0.035	<0.026	<0.032	<0.029
PCB-1242	---	---	---	---	<0.032	<0.029	<0.035	<0.026	<0.032	<0.029
PCB-1248	---	---	---	---	<0.032	<0.029	<0.035	<0.026	<0.032	<0.029
PCB-1254	---	---	---	---	<0.032	<0.029	<0.035	<0.026	<0.032	<0.029
PCB-1260	---	---	---	---	<0.032	<0.029	<0.035	<0.026	<0.032	<0.029

Notes:

Metal values are compared to residual contaminant levels if background threshold values are exceeded.

Bold values exceed the NR 720 residual contaminant level for protection of groundwater.

Boxed values exceed the NR 720 residual contaminant level for non-industrial direct contact.

--- - no standard established

J - Results between laboratory limit of detection and limit of quantitation

bgs - below ground surface

mg/kg - milligrams per kilogram

ND - not detected

PAHs - polycyclic aromatic hydrocarbons

RCRA - resource conservation recovery act

VOCs - volatile organic compounds

Table 1. Soil Analytical Results

PARAMETERS	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	Background Threshold Value	GP-4		GP-5		SS-1
					4/22/2016		4/22/2016		4/22/2016
					2-4	8-10	2-4	10-12	0.5-1.5
Date Collected									
Depth (feet bgs)									
Saturated(s)/Unsaturated(u)					u	u	u	u	u
Detected VOCs (mg/kg)									
Total Detected VOCs	---	---	---	---	ND	ND	ND	ND	ND
Detected PAHs (mg/kg)									
Acenaphthene	3,590	45,200	---	---	<0.011	<0.0097	<0.011	<0.0096	0.16
Acenaphthylene	---	---	---	---	<0.0096	<0.0087	<0.0095	<0.0086	<0.039
Anthracene	17,900	100,000	196.9492	---	<0.011	<0.010	<0.011	<0.010	1.1
Benzo(a)anthracene	1.14	20.8	---	---	<0.0075	<0.0067	<0.0074	<0.0067	1.5
Benzo(a)pyrene	0.115	2.11	0.47	---	<0.0077	<0.0069	<0.0076	<0.0069	1.5
Benzo(b)fluoranthene	1.15	21.1	0.2390	---	<0.011	<0.0097	<0.011	<0.0096	1.2
Benzo(g,h,i)perylene	---	---	---	---	<0.0082	<0.0074	<0.0081	<0.0073	0.9
Benzo(k)fluoranthene	11.5	211	---	---	<0.012	<0.011	<0.012	<0.011	1.4
Chrysene	115	2110	0.0721	---	<0.0099	<0.0090	<0.0098	<0.0089	1.8
Dibenzo(a,h)anthracene	0.115	2.11	---	---	<0.0079	<0.0071	<0.0078	<0.0070	0.32
Fluoranthene	2,390	30,100	88.8778	---	<0.011	<0.0097	<0.011	<0.0096	3.9
Fluorene	2,390	30,100	14.8299	---	<0.011	<0.0097	<0.011	<0.0096	0.25
Indeno(1,2,3-cd)pyrene	1.15	21.1	---	---	<0.0082	<0.0074	<0.0081	<0.0073	0.83
1-methylnaphthalene	17.6	72.7	---	---	<0.011	<0.0097	<0.011	<0.0096	<0.044
2-methylnaphthalene	239	3,010	---	---	<0.011	<0.0097	<0.011	<0.0096	<0.044
Naphthalene	5.52	24.1	0.6582	---	<0.011	<0.0097	<0.011	<0.0096	<0.044
Phenanthrene	---	---	---	---	<0.011	<0.0097	<0.011	<0.0096	2.5
Pyrene	1,790	22,600	54.5455	---	<0.011	<0.0097	<0.011	<0.0096	2.7
PCBs									
PCB-1016	---	---	---	---	<0.032	<0.029	<0.032	<0.029	<0.033
PCB-1221	---	---	---	---	<0.032	<0.029	<0.032	<0.029	<0.033
PCB-1232	---	---	---	---	<0.032	<0.029	<0.032	<0.029	<0.033
PCB-1242	---	---	---	---	<0.032	<0.029	<0.032	<0.029	<0.033
PCB-1248	---	---	---	---	<0.032	<0.029	<0.032	<0.029	<0.033
PCB-1254	---	---	---	---	<0.032	<0.029	<0.032	<0.029	<0.033
PCB-1260	---	---	---	---	<0.032	<0.029	<0.032	<0.029	<0.033

Notes:

Metal values are compared to residual contaminant levels if background threshold values are exceeded.

Bold values exceed the NR 720 residual contaminant level for protection of groundwater.

Boxed values exceed the NR 720 residual contaminant level for non-industrial direct contact.

--- - no standard established

J - Results between laboratory limit of detection and limit of quantitation

bgs - below ground surface

mg/kg - milligrams per kilogram

ND - not detected

PAHs - polycyclic aromatic hydrocarbons

RCRA - resource conservation recovery act

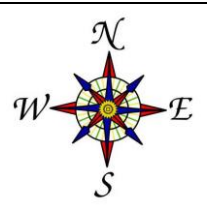
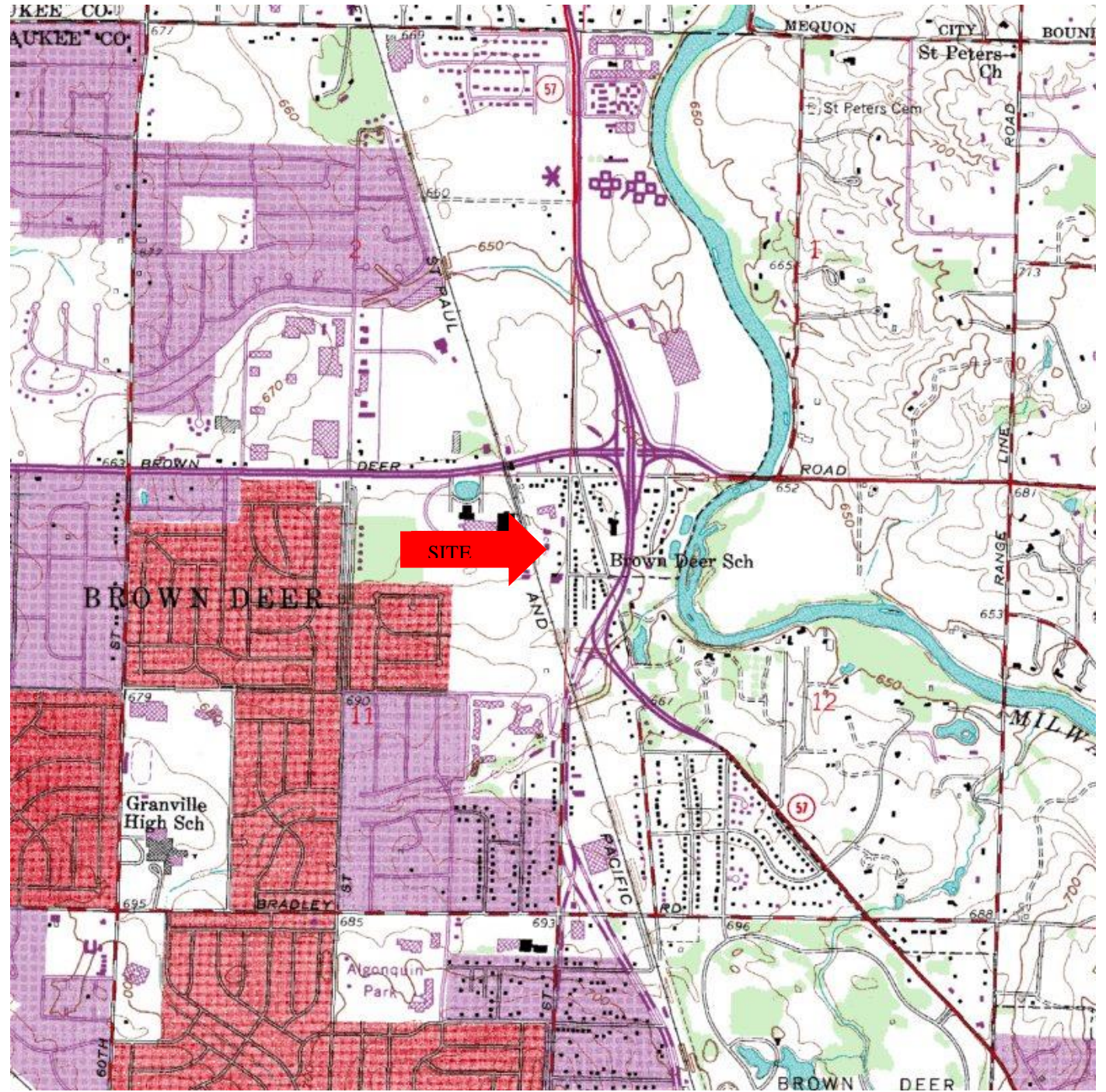
VOCs - volatile organic compounds

**Table 1. Groundwater Analytical Results
8655 N. 43rd Street Brown Deer, Wisconsin**

PARAMETERS	Preventive Action Limit	Enforcement Standard	SAMPLE IDENTIFICATION
			TW-1
Date Collected	---	---	4/22/2016
Detected VOCs (µg/l)			
Acetone	1800	9000	---
Benzene	0.5	5	<0.50
Bromobenzene	---	---	<0.23
Bromochloromethane	---	---	<0.34
Bromodichloromethane	0.06	0.6	<0.50
Bromoform	0.44	4.4	<0.50
Bromomethane	1	10	<2.4
n-Butylbenzene	---	---	<0.50
sec-Butylbenzene	---	---	<2.2
tert-Butylbenzene	---	---	<0.18
Carbon tetrachloride	0.5	5	<0.50
Chlorobenzene	---	---	<0.50
Chloroethane	80	400	<0.37
Chloroform	0.6	6	<2.5
Chloromethane	3	30	<0.50
2-Chlorotoluene	---	---	<0.50
4-Chlorotoluene	---	---	<0.21
1,2-Dibromo-3-chloropropane	0.02	0.2	<2.2
Dibromochloromethane	6	60	<0.50
1,2-Dibromoethane	0.005	0.05	<0.18
Dibromomethane	---	---	<0.43
1,2,-Dichlorobenzene	60	600	<0.50
1,3,-Dichlorobenzene	120	600	<0.50
1,4,-Dichlorobenzene	15	75	<0.50
Dichlorodifluoromethane	200	1000	<0.22
1,1-Dichloroethane	85	850	<0.24
1,2-Dichloroethane	0.5	5	<0.17
1,1-Dichloroethene	0.7	7	<0.41
cis-1,2,-Dichloroethene	7	70	<0.26
trans-1,2-Dichloroethene	20	100	<0.26
1,2-Dichloropropane	0.5	5	<0.23
1,3-Dichloropropane	---	---	<0.50
2,2 Dichloropropane	---	---	<0.48
1,1-Dichloropropene	---	---	<0.44
cis-1,3-Dichloropropene	0.04	0.4	<0.50
trans-1,3 Dichloropropene	0.04	0.4	<0.23
Diisopropyl ether	---	---	<0.50
Ethylbenzene	140	700	<0.50
Hexachloro-1,3-butadiene	---	---	<2.1
Isopropylbenzene	---	---	<0.14
p-Isopropyltoluene	---	---	<0.50
Methylene Chloride	0.5	5	<0.23
Methyl-tert-butyl ether	12	60	<0.17
Naphthalene	10	100	<2.5
n-Propylbenzene	---	---	<0.50
Styrene	10	100	<0.50
1,1,1,2-Tetrachloroethane	7	70	<0.18
1,1,2,2-Tetrachloroethane	0.02	0.2	<0.25
Tetrachloroethene	0.5	5	<0.50
Toluene	160	800	<0.50
1,2,3-Trichlorobenzene	---	---	<2.1
1,2,4-Trichlorobenzene	14	70	<2.2
1,1,1-Trichloroethane	40	200	<0.50
1,1,2-Trichloroethane	0.5	5	<0.20
Trichloroethene	0.5	5	<0.33
Trichlorofluoromethane	698	3,490	<0.18
1,2,3-Trichloropropane	12	60	<0.50
1,2,4-Trimethylbenzene	---	---	<0.50
1,3,5-Trimethylbenzene	---	---	<0.50
Trimethylbenzenes	96	480	<0.075
Vinyl chloride	0.02	0.2	<0.18
o/m&p-Xylene	400	2,000	<1.50
PAHs (ug/l)			
Acenaphthene	---	---	<0.028
Acenaphthylene	---	---	<0.027
Anthracene	600	3,000	<0.022
Benzo(a)anthracene	---	---	<0.028
Benzo(a)pyrene	0.02	0.2	<0.025
Benzo(b)fluoranthene	0.02	0.2	<0.030
Benzo(g,h,i)perylene	---	---	<0.019
Benzo(k)fluoranthene	---	---	<0.031
Chrysene	0.02	0.2	<i>0.027J</i>
Dibenzo(a,h)anthracene	---	---	<0.031
Fluoranthrene	80	400	0.096J
Fluorene	80	400	<0.022
Indeno(1,2,3-cd)pyrene	---	---	<0.020
1-Methyl Naphthalene	---	---	<0.017
2-Methyl Naphthalene	---	---	<0.015
Naphthalene	10	100	<0.025
Phenanthrene	---	---	0.13J
Pyrene	50	250	0.12J

Notes:

Bold concentrations exceed NR 140 enforcement standard
 Italicized concentrations exceed NR 140 preventive action limit
 --- - no standard established
 NA - not analyzed
 µg/l - micrograms per liter
 VOCs - volatile organic compounds



Project:
Map Source:
Map Date:
Quadrangle Map:

FIGURE 1
 SITE LOCATION MAP
 8655 NORTH 43RD STREET
 BROWN DEER, WISCONSIN 53209

KEY
ENGINEERING
GROUP LTD.
 A Division of SET Environmental Inc



	Source: Google Earth
	Date: February 15, 2019

FIGURE 2
 SITE DETAIL MAP
 8655 NORTH 43RD STREET
 BROWN DEER, WI 53209





735 North Water Street, Suite 510
Milwaukee, Wisconsin 53202
Phone (414) 224-8300
Fax (414) 224-8383

May 25, 2016

Ms. Jennifer Jambor-Raninen
Modus Design Group
8655 North 43rd Street
Brown Deer, Wisconsin

Via Email: Jennifer@DesignByModus.com

Reference: *Limited Site Assessment Report*
8655 N. 43rd Street
Brown Deer, Wisconsin
BRRTS# 02-41-550899

KEY ENGINEERING GROUP, LTD.
File No. 2604006

Dear Ms. Jambor-Raninen:

The purpose of this letter is to document the results of the limited site investigation performed at the above referenced site by Key Engineering Group, Ltd. (KEY).

SITE HISTORY

In January 2008, the Wisconsin Department of Natural Resources (WDNR) indicated a release discharged from the subject site had caused the contaminated soils and stressed vegetation on the adjacent west property owned by WE Energies.

“... the subject site needs to conduct a subsurface investigation to determine if there are soil and or groundwater impacts on the site which have migrated to the offsite impacted area. According to the WDNR there is a drain that leads from the building to the outlet where the impacts were detected”.

Based on information submitted to the DNR, there were detections of DRO, benzene, naphthalene, and PCBs detected in soil within the adjoining ditch.

A copy of the *Notice of Contamination* placed on the deed which was prepared by the WDNR is included as Appendix 1.

A site map depicting the approximate geographic location is presented as Figure 1. A site map depicting major site features and soil probe locations is presented as Figure 2.

INVESTIGATION ACTIVITIES

SOIL

On April 22, 2016, five soil probes (GP-1 through GP-5) were advanced on the property in and around the site structure. One surface soil sample (SS-1) was collected from the west adjacent WE Energies property within the apparent area previously sampled and indicated to be contaminated.

Soil probes were advanced to 8 to 14 feet below ground surface (bgs), the maximum depth due to the presence of auger refusal at each location, likely indicating bedrock.

Direct push technology was used to advance the probes. A 5-foot long stainless steel sampler with an acetate liner was driven to the desired sampling depth using stainless steel rods. Soil samples were collected and classified in the field in accordance with the Unified Soil Classification System. Each 2-foot soil sample interval was also field screened for the presence of volatile organic vapors using a photo-ionization detector (PID). No PID readings were observed in any of the soil samples collected during the site investigation. Nitrile gloves were used during sampling.

Two soil samples per boring were submitted for laboratory analysis. Soil samples were selected from the 2-4 feet bgs interval which represented the direct contact zone from all soil probe locations. Soil was also selected from GP-1 at 8-10 feet bgs, from GP-2 at 6-8 feet bgs, from GP-3 at 6-8 feet bgs, from GP-4 at 8-10 feet bgs and from GP-5 at 10-12 feet bgs.

Only surface soil samples were collected from SS-1 which was located in the WE Energies property. This sample was collected to determine what degree of impacts were present. We could not drill any borings outside the subject property. The intent of the site investigation was to determine if the subject site was significantly impacted and whether those impacts were potentially migrating offsite.

Samples were submitted under applicable chain of custody procedures to Pace Analytical Services Inc. (Pace) for analysis of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs) and polychlorinated biphenyls (PCBs).

Soils on site consist of silty clay with trace gravel. Occasional mottling and silt and gravel were identified in the clay. Auger refusal was encountered at each borehole location at depths between 8 and 14 feet below grade. It appears that bedrock is present and preventing further vertical exploration.

GROUNDWATER

One temporary groundwater well was installed at GP-1 and labeled as TW-1. Groundwater was encountered at a depth of about 9-10 feet. Due to probe refusal (potentially shallow bedrock), KEY was only able to install and sample one temporary well in the location of GP-1. One groundwater sample was collected from GP-1 and submitted to Pace for analysis of VOCs and PAHs.

Soil boring logs and borehole abandonment forms are presented in Attachment 2. Laboratory analytical report and chain of custody documentation are presented in Attachment 3.

SOIL INVESTIGATION RESULTS

Soil sample analytical results are summarized in Table 1. Below is a summary of the probe location, lithology and analytical results.

GP-1 was advanced to a depth of 12 feet bgs along the west wall of the site structure. Soils encountered included clay with trace amounts of silt and gravel. No VOCs, PAHs or PCBs were detected in soils analyzed from 2-4 feet and 8-10 feet in depth.

GP-2 was advanced to a depth of 8 feet bgs at a location north of the site structure. Soils encountered at GP-2 included clay with trace amounts of silt and gravel. No VOCs, PAHs or PCBs were detected in soils analyzed from 2-4 feet and 6-8 feet in depth.

GP-3 was advanced to a depth of feet bgs on the east side of the structure. Soils encountered included clay with silt and gravel to 8 feet bgs. No VOCs, PAHs or PCBs were detected in soils analyzed from 2-4 feet and 6-8 feet in depth.

GP-4 was advanced to 10 feet bgs in the north interior section of the site structure. Approximately 5 inches of concrete flooring and 4 inches of crushed stone subgrade were present at GP-4. Soils encountered beneath the

floor at GP-4 included silty gravel and silty clay with small gravel. No VOCs, PAHs or PCBs were detected in soils analyzed from 2-4 feet and 8-10 feet in depth.

GP-5 was advanced in the southern portion of the site structure in the area of the former floor drain. Soils encountered at GP-5 included silty gravel and silty clay with trace small gravel. No VOCs, PAHs or PCBs were detected in soils analyzed from 2-4 feet and 10-12 feet in depth.

One soil sample was collected in the area where the drainage had previously occurred onto the WE Energies property. Soils encountered at SS-1 included organic matter over silty clay. The soil sample was collected between 0.5 and 1.5 feet in depth. There were no VOCs detected in the soil sample.

Several PAHs were detected above their respective Non-Industrial Direct Contact Residual Contamination Levels (RCLs): benzo(a)pyrene at 1.5mg/kg, benzo(a)anthracene at 1.5mg/kg, benzo(b)fluoranthene at 1.2mg/kg, benzo(k)fluoranthene at 1.4mg/kg, chrysene at 1.8mg/kg, dibenzo(a,h)anthracene at 0.32mg/kg and indeno(1,2,3-cd)pyrene at 0.83mg/kg. Levels of benzo(a)pyrene, benzo(b)fluoranthene and chrysene, within SS-1, were also detected above their respective Protection of Groundwater RCLs.

GROUNDWATER RESULTS

Four PAH compounds were detected in the groundwater sample collected from TW-1; chrysene at 0.027J µg/L, fluoranthene at 0.096J µg/L, phenanthrene at 0.13J µg/L and pyrene at 0.12J µg/L. Chrysene was detected above its Preventative Action Level (PAL) of 0.02 ug/l but below its Enforcement Standard (ES) of 0.2 ug/l. The results were J-Flagged by the laboratory. No VOCs were detected in TW-1.

There were no VOCs detected in the groundwater sample.

The laboratory reports and chain of custody documentation are presented in Attachment 3.

CONCLUSIONS

Based on the soil data, there were no indications that a release has occurred at the subject site. The soils analyzed within the subject site building where the apparent source of the off-site release was suggested, did not register any impacts. In addition, soil samples analyzed from other locations around the site did not register any detectable concentrations of VOCs or PAHs. In addition, the PCBs which were detected in the ditch where the release was suggested were not detected at any boring location on the subject site.

The sample collected from the ditch area where the drain was identified, did indicate PAHs in soils. There were however no PCBs detected in this soils sample. In addition, there were no VOCs detected.

Low level PAH contamination was detected in groundwater collected from the east side of the subject site. Only one compound exceeded its PAL groundwater quality standard. Since this sample was collected from a temporary well, it would be expected to be biased high due to likely sedimentation present in the sample. It is likely that a groundwater quality sample would provide groundwater results below applicable standards.

It appears that the impacts which were identified in the WE Energies property, are likely limited to the area where the drainage occurred during historical building operations.

RECOMMENDATIONS

The WDNR may require that the extent of the impacts within the WE Energies site be determined. In order to conduct work within the area, an off-site access will need to be obtained. It is our opinion that this information be submitted to the WDNR and a discussion with them occur to determine the appropriate action to address this release. There were minimal groundwater impacts detected in the temporary well, however we do not believe this is related to the drain which extends to the west. The groundwater data was detected to the east. The source of this could be related to various fill materials present at the site. There were no PAH detections in the soils.

QUALIFICATIONS

Our assessment was performed using the degree of care and skill ordinarily exercised under similar circumstances, by environmental consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusions and recommendations included in this report.

The findings of this assessment, to the best of knowledge, are valid as of the date of this assessment. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge or from other reasons. Accordingly, the findings of this assessment may be invalidated wholly or partially by changes outside our control.

Specified information contained in this report has been obtained from secondary sources produced by entities other than Key Engineering Group, Ltd. Although care has been taken by Key Engineering Group, Ltd., in compiling this information, Key Engineering Group, Ltd., disclaims any and all liability for any errors, omissions or inaccuracies of the third parties in such in disclaims formation and data.

Please feel free to call us at (414) 224-8300 if you have any questions regarding this Phase II ESA report.

Sincerely,

KEY ENGINEERING GROUP, LTD.



Jason M. Kruchko, LEED GA
Operation Manager



Kenneth W. Wein, CHMM
Principal

Table 1	Summary of Soil Sample Analytical Results
Table 2	Summary of Groundwater Sample Analytical Results
Figure 1	Site Location Map
Figure 2	Soil Probe Locations
Attachment 1	WDNR Notice of Contamination
Attachment 2	Soil Boring Logs and Borehole Abandonment Forms
Attachment 3	Pace Analytical Laboratory Report

Table 1

Table 2

TABLE 2
GROUNDWATER ANALYTICAL SUMMARY TABLE

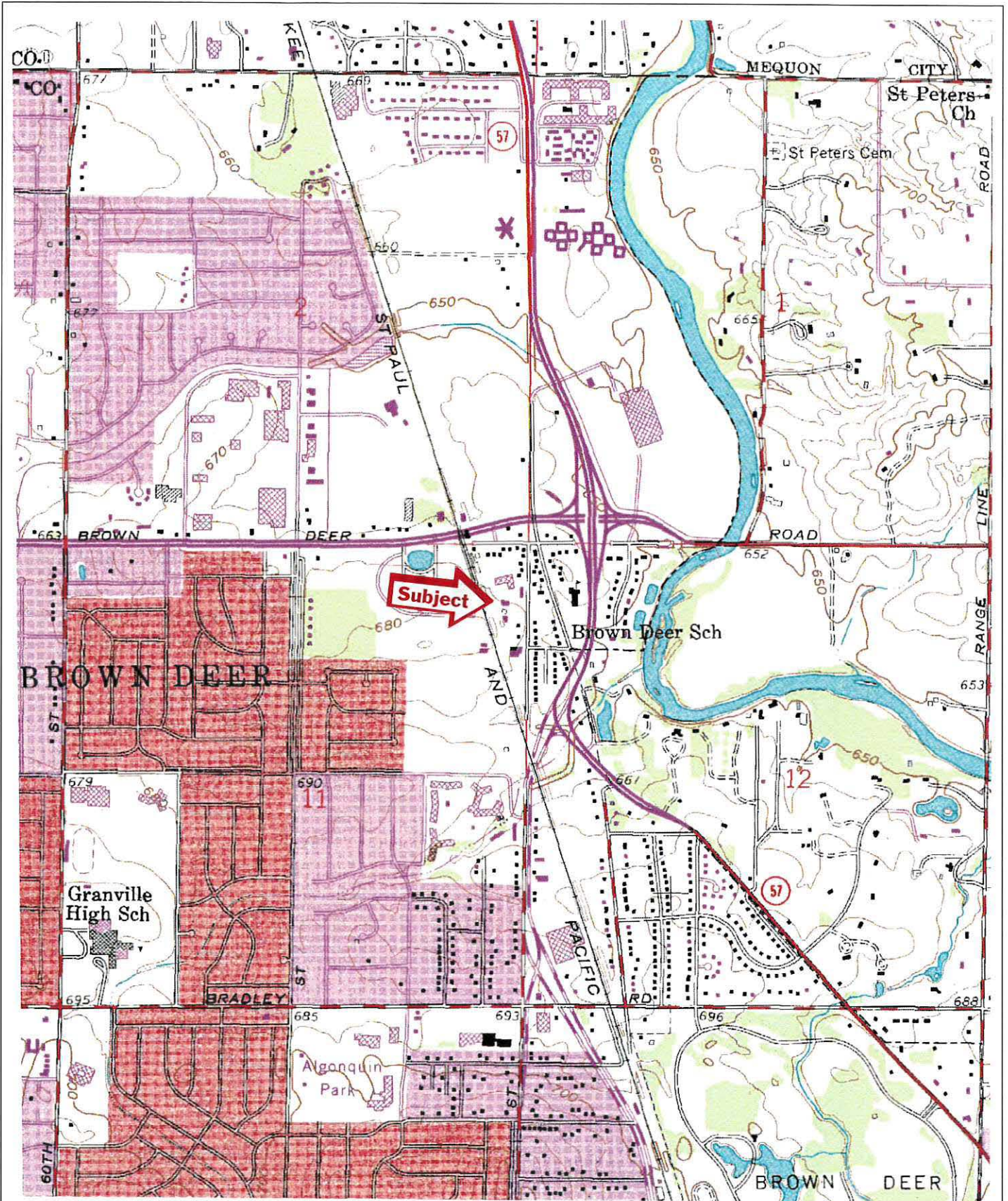
8655 N. 43rd St.
Brown Deer, Wisconsin

PARAMETERS	SAMPLE IDENTIFICATION TW-1/GP-1	NR 140	
		ES	PAL
Date Collected	4/22/16	---	---
Detected VOCs (µg/l)			
Acetone	---	9000	1800
Benzene	<0.50	5	0.5
Bromobenzene	<0.23	---	---
Bromochloromethane	<0.34	---	---
Bromodichloromethane	<0.50	0.6	0.06
Bromofrom	<0.50	4.4	0.44
Bromomethane	<2.4	10	1
n-Butylbenzene	<0.50	---	---
sec-Butylbenzene	<2.2	---	---
tert-Butylbenzene	<0.18	---	---
Carbon tetrachloride	<0.50	5	0.5
Chlorobenzene	<0.50	---	---
Chloroethane	<0.37	400	80
Chloroform	<2.5	6	0.6
Chloromethane	<0.50	30	3
2-Chlorotoluene	<0.50	---	---
4-Chlorotoluene	<0.21	---	---
1,2-Dibromo-3-chloropropane	<2.2	0.2	0.02
Dibromochloromethane	<0.50	60	6
1,2-Dibromoethane	<0.18	0.05	0.005
Dibromomethane	<0.43	---	---
1,2-Dichlorobenzene	<0.50	600	60
1,3-Dichlorobenzene	<0.50	600	120
1,4-Dichlorobenzene	<0.50	75	15
Dichlorodifluoromethane	<0.22	1000	200
1,1-Dichloroethane	<0.24	850	85
1,2-Dichloroethane	<0.17	5	0.5
1,1-Dichloroethene	<0.41	7	0.7
cis-1,2-Dichloroethene	<0.26	70	7
trans-1,2-Dichloroethene	<0.26	100	20
1,2-Dichloropropane	<0.23	5	0.5
1,3-Dichloropropane	<0.50	---	---
2,2-Dichloropropane	<0.48	---	---
1,1-Dichloropropene	<0.44	---	---
cis-1,3-Dichloropropene	<0.50	0.4	0.04
trans-1,3-Dichloropropene	<0.23	0.4	0.04
Diisopropyl ether	<0.50	---	---
Ethylbenzene	<0.50	700	140
Hexachloro-1,3-butadiene	<2.1	---	---
Isopropylbenzene	<0.14	---	---
p-Isopropyltoluene	<0.50	---	---
Methylene Chloride	<0.23	5	0.5
Methyl-tert-butyl ether	<0.17	60	12
Naphthalene	<2.5	100	10
n-Propylbenzene	<0.50	---	---
Styrene	<0.50	100	10
1,1,1,2-Tetrachloroethane	<0.18	70	7
1,1,2,2-Tetrachloroethane	<0.25	0.2	0.02
Tetrachloroethene	<0.50	5	0.5
Toluene	<0.50	800	160
1,2,3-Trichlorobenzene	<2.1	---	---
1,2,4-Trichlorobenzene	<2.2	70	14
1,1,1-Trichloroethane	<0.50	200	40
1,1,2-Trichloroethane	<0.20	5	0.5
Trichloroethene	<0.33	5	0.5
Trichlorofluoromethane	<0.18	3,490	698
1,2,3-Trichloropropane	<0.50	60	12
1,2,4-Trimethylbenzene	<0.50	---	---
1,3,5-Trimethylbenzene	<0.50	---	---
Trimethylbenzenes	<0.075	480	96
Vinyl chloride	<0.18	0.2	0.02
o/m&p-Xylenes	<1.50	2,000	400
PAHs (µg/l)			
Acenaphthene	<0.028	---	---
Acenaphthylene	<0.027	---	---
Anthracene	<0.022	3,000	600
Benzo(a)anthracene	<0.028	---	---
Benzo(a)pyrene	<0.025	0.2	0.02
Benzo(b)fluoranthene	<0.030	0.2	0.02
Benzo(g,h,i)perylene	<0.019	---	---
Benzo(k)fluoranthene	<0.031	---	---
Chrysene	0.027J	0.2	0.02
Dibenzo(a,h)anthracene	<0.031	---	---
Fluoranthrene	0.096J	400	80
Fluorene	<0.022	400	80
Indeno(1,2,3-cd)pyrene	<0.020	---	---
1-Methyl Naphthalene	<0.017	---	---
2-Methyl Naphthalene	<0.015	---	---
Naphthalene	<0.025	100	10
Phenanthrene	0.13J	---	---
Pyrene	0.12J	250	50

Notes:

Bold concentrations exceed NR 140 ES
 Italicized concentrations exceed NR 140 PAL
 --- - not analyzed, not applicable or no standard established
 ES - enforcement standard
 J - Results between the limit of detection and limit of quantitation
 PAHs - polynuclear aromatic hydrocarbons
 PAL - preventive action limit
 µg/l - micrograms per liter
 VOCs - volatile organic compounds

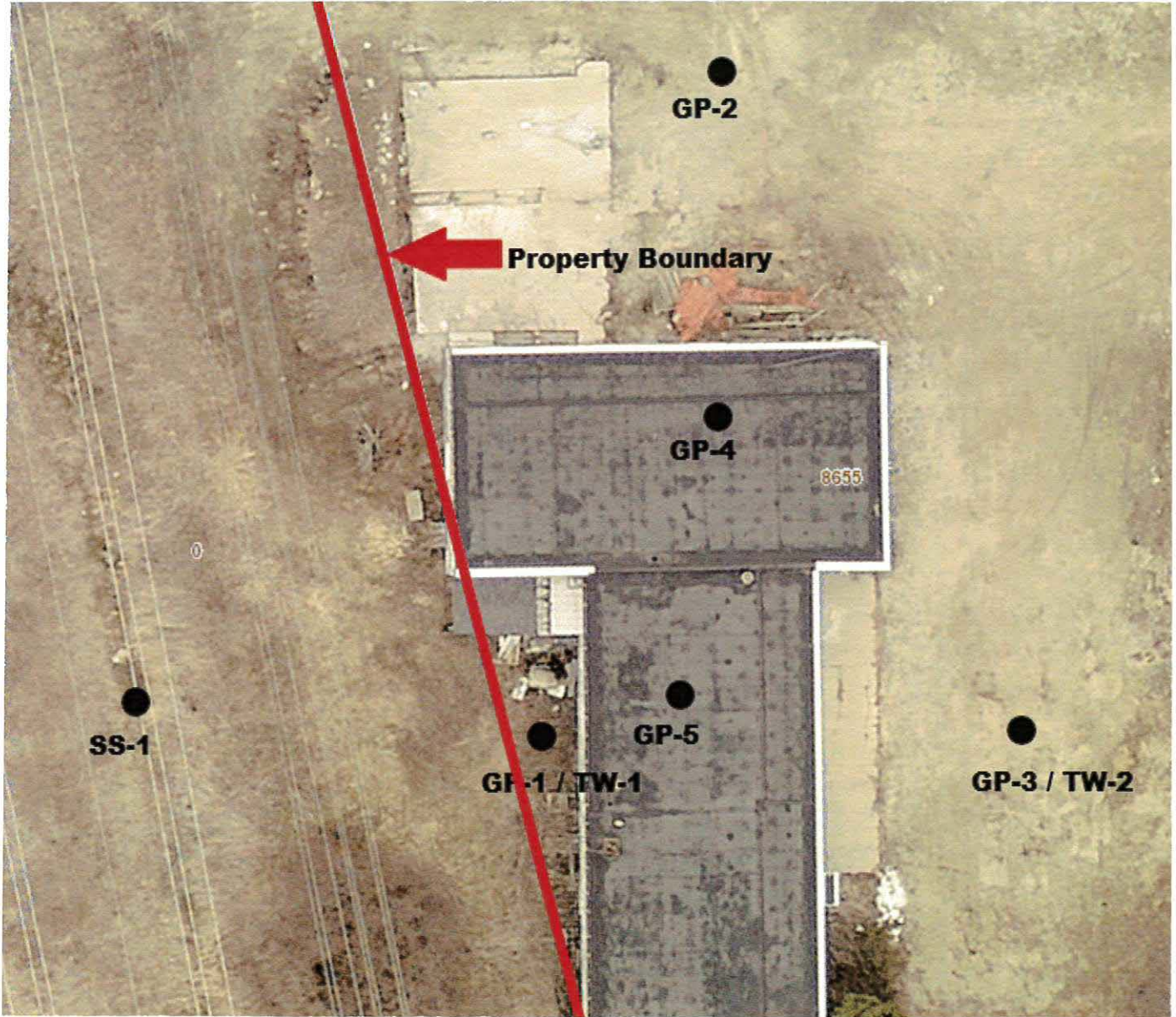
Figures



Location: Brown Deer, WI	Map Year:
Project: 1604-0240	Date: 5/19/16
	Scale:
	Series:

FIGURE 1
 SITE LOCATION MAP
 8655 N. 43RD STREET
 BROWN DEER, WISCONSIN





Location: Brown Deer, Wisconsin	Map Year:
Project: 1604-0240	Date: 5/19/16
	Scale: 1:24000
	Series: 7.5'

FIGURE 2
 SITE DETAIL MAP
 8655 N. 43RD STREET
 BROWN DEER, WISCONSIN



Attachment I



* 1 0 2 1 2 1 1 7 *

DOC.# 10212117

RECORDED 02/04/2013 01:27PM
JOHN LA FAVE
REGISTER OF DEEDS
Milwaukee County, WI
AMOUNT: 30.00
FEE EXEMPT #:

Document Number

NOTICE OF CONTAMINATION

Legal Description of the Property:

Certified Survey Map No. 2322, NE Section 11, Township 8, Range 21E, Parcel 1

STATE OF WISCONSIN,

COUNTY OF Milwaukee

Recording Area

Name and Return Address:
John J. Hnat, CPG, PG
Wisconsin Dept. of Natural Resources
2300 Dr M L King Dr
Milwaukee, WI 53212

0479987001

Parcel Identification Number (PIN)

I, Pamela A. Mylotta, being first duly sworn, state that:

1. I am a Remediation and Redevelopment Program Supervisor, employed by the Wisconsin Department of Natural Resources (hereinafter "the Department") at its Southeast Regional Office in Milwaukee, Wisconsin.
2. John J. Hnat, Project Manager/Hydrogeologist, employed by the Wisconsin Department of Natural Resources at its Southeast Regional Office in Milwaukee, Wisconsin, has personal knowledge of the facts herein set forth and believes the same to be true.
3. Based on information submitted to the Department, the Department has determined that contaminants discharged from the Bella Landscaping, LLC (formerly Hillcrest Landscaping) property to the adjacent WE Energy property, located at 8655 North 43rd Street, in the City of Brown Deer, County of Milwaukee, Wisconsin, which has the above legal description, has contaminated soil and stressed vegetation in the vicinity of a wood pile on the west side property line for hazardous wastes, as shown on the attached site map (Exhibit A) and photographs (Exhibit B, C, and D). Three soil boring locations (Exhibit "A") were analyzed for volatile organic compounds at the six-inch and one-to-two feet below ground surface. Laboratory analysis indicated the following results:
 - Diesel Range Organics (DRO) at the six-inch depth ranged from 340 to 13,000 parts per million (ppm) that is above the Chapter NR 720.09(4)(a), Wisconsin Administrative Code, soil cleanup standard of 100 ppm (subd. 1) and 250 ppm (subd. 2).


In Re: Property Located in the
City of Brown Deer, Milwaukee County, Wisconsin
Described above.

- Diesel Range Organics (DRO) at the one-to-two foot depth ranged from 640 to 2,300 ppm) that is above the Chapter NR 720.09(4)(a), Wisconsin Administrative Code, soil cleanup standard of 100 ppm (subd. 1) and 250 ppm (subd. 2).
 - Soil analysis indicates Benzene is above the Chapter NR 720, Wisconsin Administrative Code, Table 1, residual contaminant level based on protection of groundwater of 5.5 ppb. Benzene occurs at 56 ppb at the one-to-two foot depth.
 - Naphthalene (1,200 ppb) is above the soil cleanup level for Polycyclic Aromatic hydrocarbons (PAHs) groundwater pathway value of 0.4 ppm.
 - Evidence of Polychlorinated Biphenyls (PCBs) Aroclor 1254 (43 ppb to 60 ppb) and Aroclor 1260 (22 ppb) were analyzed in two of the three soil samples.
4. The Wisconsin Department of Natural Resources BRRTS number for this site is 02-41-550899, and the FID number is 341156860.
 5. On October 5, 2007, WE Energies notified Scott Ferguson, Southeast Region Spill Coordinator, of the Wisconsin Department of Natural Resources ("the Department") of contamination being discharged onto their right-of-way from the Bella Landscaping property. The analytical results submitted by WE Energies indicated that Aroclor 1254 and 1260 (PCBs), trimethylbenzene (TMBs), naphthalene, xylenes, benzene, and ethylbenzene have contaminated the soil.
 6. On January 23, 2008, Scott Ferguson notified the Redevelopment and Remediation Section of the Department of the discharge. A Responsible Party letter was sent to Hillcrest Landscaping, attention to Richard Briere, Registered Agent at 8655 North 43rd Street, Brown Deer Wisconsin on February 5, 2008.
 7. On June 4, 2009, the Department sent a certified letter (No. 7007 3020 0000 6917 8556) to Hillcrest Landscaping at 8655 North 43rd Street Brown Deer, Wisconsin reminding them of their legal responsibilities to restore the environment to the extent practicable and minimize the harmful effects from the discharge. The letter also instructed them to provide the name of their environmental consultant that would conduct an environmental site investigation, the work plan and schedule. On June 11, 2009, the Department received the returned certified letter marked "Return to Sender Refused Unable to Forward" stamped on the letter. Online researching of the address for the property resulted in a new owner of the property called Bella Landscaping, LLC.
 8. On June 11, 2009, the Department sent a certified letter (No. 7007 3020 0000 6917 8556) to Bella Landscaping at 8655 North 43rd Street Brown Deer, Wisconsin describing their legal responsibilities under the hazardous spill law, Section 292.11(3) Wisconsin Statutes. The letter also instructed them to provide the name of their environmental consultant that would conduct an environmental site investigation, the work plan and schedule.
 9. On July 9, 2009, BT², Inc. notified the Department that they had been contracted by Bella Landscaping as their environmental consultant.
 10. On September 22, 2009, Christine Straate, Owner and CEO, of Bella Landscaping, notified the Department with a Work Plan and Schedule that would be completed within one month's time.
 11. On August 9, 2012, the Department sent a certified (No. 7010 1670 0002 3141 2906) Notice of

In Re: Property Located in the
City of Brown Deer, Milwaukee County, Wisconsin
Described above.

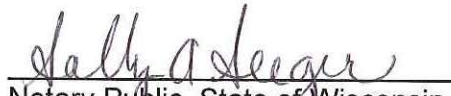
Noncompliance letter to Bella Landscaping to the attention of Christine Straate located at 8655 North 43rd Street Brown Deer, Wisconsin, reminding them that the Department had not received any information on the site investigation and/or remediation of the property. The Department also requested that within 30-days on receipt of the letter, a work plan, schedule, and start date with the required review fee for document review. This letter was returned to the Department marked, "Unclaimed" with three attempts by the US Postal Service on August 8, August 16, and August 27, 2012.

- 12. On October 17, 2012, the Department sent a Notice of Violation to Christine Straate, Registered Agent for Bella Landscaping located at 8655 North 43rd Street Brown Deer, Wisconsin, requesting an Enforcement Conference.
- 13. On November 19, 2012, the Department discussed the Notice of Violation with Christine Straate, Registered Agent. The Property is in the process of foreclosure and Bella Landscaping is no longer a viable business. The Department informed the Registered Agent that a Deed Affidavit would be filed at the Registered of Deeds Office in Milwaukee County.
- 14. The Department believes that the above-described contamination currently found in the soil on the Property with the above legal description will require subsequent purchasers of the Property to maintain a cap under 292.12, Wisconsin Statutes, to prevent exposure to contaminated soil and infiltration into the groundwater.

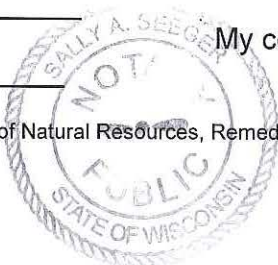


 Pamela A. Mylotta

Subscribed and sworn to before me this January day of 2, 2013.

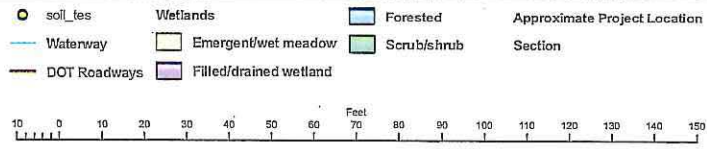
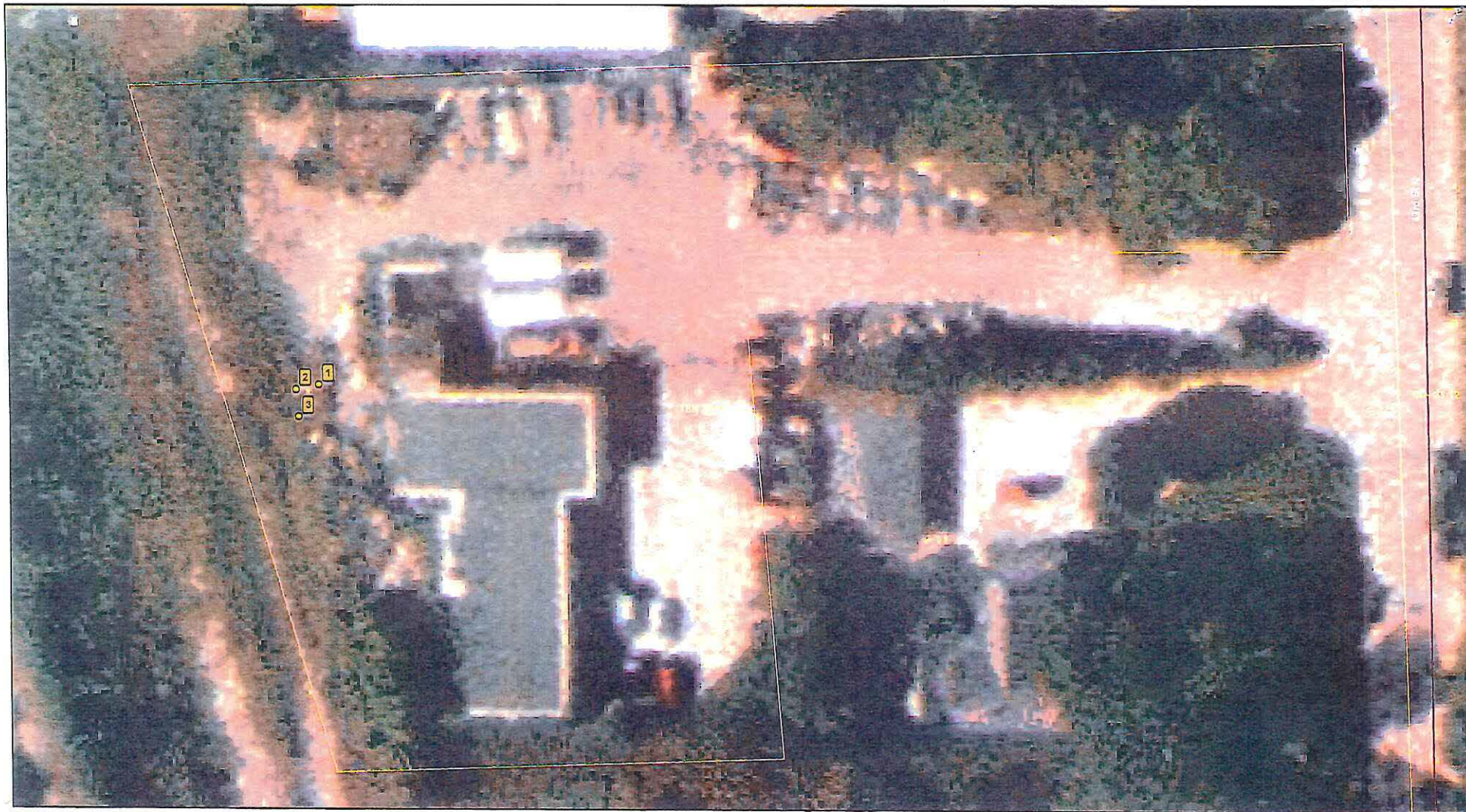


 Notary Public, State of Wisconsin
Milwaukee County



My commission expires on: May 23, 2016

Exhibit "A"



Hillcrest Property
 Exhibit # 2A: General Location and Aerial View
 Source: Southeastern Wisconsin Yr. 2005 Photomapper
 WDNR Mapped Wetland Inventory
 WDNR Waterways
 AMS 9/21/2007



View to the southeast, west side of 8655 N. 43rd Street.
Discharge area visible in the center of the photo.



View directly to the east, looking at the west side of 8655 43rd Street.
Discharge area in the middle of the photo.



View to the southeast, west side of 8655 N. 43rd Street.
Shows flow of discharge from under the bark and debris to the west, and then southward along east side of ROW.



View to the south along east side of ROW.



View to the east from ROW of the discharge area.
Some petroleum odor, and staining of bark and vegetation. No visible oil sheen.



View to the east.
Water in the ditch dug away from the discharge point.

Attachment 2

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page 1 of 1

Facility/Project Name Brown Deer		License/Permit/Monitoring Number	Boring Number EP-1/TW-1
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Dan Last Name: Fisher Firm: Horizon		Date Drilling Started 04/22/2016 m m d d y y y y	Date Drilling Completed 04/22/2016 m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method Direct Push
		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Borehole Diameter 2 inches	
State Plane N, E		Local Grid Location	
1/4 of Section T N, R		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID	County Milwaukee	County Code 41	Civil Town/City/ or Village Village of Brown Deer

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
48			4"	silt/clay, trace med. gravel, black				0.1						
			44"	clay w/ trace silt, soft w/ trace small gravel, tan/brown				0.1						
			5					0.1						
			48"	silt/clay, brown w/ orange mottling				0.3						
24			10	24" silt/clay, tan w/ trace gravel				0.1						
			12	WE.O.B@12'				0.2						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature **CAME** Firm **KEY Engineering**

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page 1 of 1

Facility/Project Name <u>Brown Deer</u>		License/Permit/Monitoring Number		Boring Number <u>BP-2</u>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <u>Dan</u> Last Name: <u>Hisher</u> Firm: <u>Honzon</u>		Date Drilling Started <u>04, 22, 2016</u> m m d d y y y y	Date Drilling Completed <u>04, 22, 2016</u> m m d d y y y y	Drilling Method <u>Direct Push</u>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter <u>2</u> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane _____ N, _____ E		Local Grid Location ____ Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Lat _____ ' _____"		Long _____ ' _____"	
Facility ID	County <u>Milwaukee</u>	County Code <u>41</u>	Civil Town/City/ or Village <u>Village of Brown Deer</u>		

Sample	Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
										Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
		<u>60</u>			<u>2" crushed gravel</u> <u>58" clay w/silt, tough w/ trace gravel, brown/grey</u>				<u>0.1</u> <u>2</u> <u>0.1</u> <u>4</u> <u>0.1</u>						
		<u>30</u>		<u>5</u>	<u>30" clay w/silt w/ med gravel trace w/ orange mottling, tan</u>				<u>0.1</u> <u>6</u> <u>0.1</u>						
				<u>8</u>	<u>LDE.O.B.@ 8' w/ refusal</u>				<u>8</u>						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Cullen Firm RE Engineering

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Revelpment Other

Page 1 of 1

Facility/Project Name <u>Braun Deer</u>		License/Permit/Monitoring Number		Boring Number <u>BP-3</u>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <u>Don</u> Last Name: <u>Fisher</u> Firm: <u>Honza</u>		Date Drilling Started <u>04, 22, 2016</u> m m d d y y y y	Date Drilling Completed <u>04, 22, 2016</u> m m d d y y y y	Drilling Method <u>Direct Push</u>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter <u>2</u> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane _____ N, _____ E		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Lat _____ ' "		Long _____ ' "	
Facility ID	County <u>Milwaukee</u>	County Code <u>41</u>	Civil Town/City/ or Village <u>Village At Braun Deer</u>		

Sample Number and Type	Length Art. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
				12" crushed rock/gravel w/silt				1.0							
	120			10" clay w/silt, trace small gravel, dark brown				2							
				38" clay w/silt, trace med gravel, brown/tan				0.2							
			5	24" clay w/silt, trace med gravel, brown w/orange mottling				0.2							
	24							0.1							
			8	LDE. O. @ 8' w/ refusal				8							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Cammer Firm KEY Engineering

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page 1 of 1

Facility/Project Name <u>Braun Deer</u>		License/Permit/Monitoring Number		Boring Number <u>BIP-4</u>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <u>Dan</u> Last Name: <u>Fisher</u> Firm: <u>Horizon</u>		Date Drilling Started <u>04, 22, 2016</u> m m d d y y y y	Date Drilling Completed <u>04, 22, 2016</u> m m d d y y y y	Drilling Method <u>Direct Push</u>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter <u>2</u> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane _____ N, _____ E		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Lat _____ ' _____"		Long _____ ' _____"	
Facility ID	County <u>Milwaukee</u>	County Code <u>41</u>	Civil Town/City/ or Village <u>Village of Braun Deer</u>		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
60			5	4" crushed rock				0.1						
				24" silt w/ med gravel dark brown										
60			10	32" clay w/ silt w/ trace gravel, brown				0.1	2					
				24" clay w/ trace silt, tough, brown										
				12" clay w/ silt, trace gravel, brown										
				24" silt w/ clay w/ trace gravel, tan brown				0.1	4					
				24" silt w/ clay w/ trace gravel, tan brown				0.1	6					
				24" silt w/ clay w/ trace gravel, tan brown				0.1	8					
				6 DE. O. BC 10' w/ refusal				0.1	10					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Camer Firm KEV Engineering

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Revelpoment Other

Page 1 of 1

Facility/Project Name <u>Brown Deer</u>		License/Permit/Monitoring Number	Boring Number <u>BP-5</u>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <u>Dan</u> Last Name: <u>Fisher</u> Firm: <u>Horizon</u>		Date Drilling Started <u>04, 22, 2016</u> m m d d y y y y	Date Drilling Completed <u>04, 22, 2016</u> m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method <u>Direct Push</u>
		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
			Borehole Diameter <u>2</u> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane _____ N, _____ E		Lat _____ " _____ "	
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Long _____ " _____ " _____ Feet <input type="checkbox"/> N _____ Feet <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
Facility ID	County <u>Milwaukee</u>	County Code <u>511</u>	Civil Town/City/ or Village <u>Village of Brown Deer</u>

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments		
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200			
36			5	6" clay w/ silt, ultra small gravel, dark brown				0	2	4	6	8	10	12	14	
				30" clay w/ silt, ultra small gravel, red/brown												
48			10	6" clay w/ silt, ultra small gravel, red/brown				0	6	8	10	12	14			
				4" silt w/ clay, trace gravel, brown												
42			14	38" clay w/ trace gravel, brown w/ orange mottling				0	6	8	10	12	14			
				3" crushed rock												
				39" silt w/ trace small gravel, orange/tan w/ orange mottling				0								
				LDE. 0.5 @ 14' w/ refusal												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Cleme Firm KEY Engineering

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County: Milwaukee WI Unique Well # of Removed Well: _____ Hicap #: _____
 Latitude / Longitude (see instructions): _____ N Format Code: DD Method Code: GPS008
 _____ W DDM SCR002
 _____ OTH001
 ¼ / ¼ ¼ Section Township Range E
 or Gov't Lot # N W
 Well Street Address: 8655 North 43rd St.
 Well City, Village or Town: Village of Brown Deer Well ZIP Code: _____
 Subdivision Name: _____ Lot #: _____

Facility Name: Brown Deer
 Facility ID (FID or PWS): _____
 License/Permit/Monitoring #: GP-1/HW-1
 Original Well Owner: _____
 Present Well Owner: _____
 Mailing Address of Present Owner: _____
 City of Present Owner: _____ State: _____ ZIP Code: _____

Reason for Removal from Service: _____ WI Unique Well # of Replacement Well: _____

3. Filled & Sealed Well / Drillhole / Borehole Information

Monitoring Well Original Construction Date (mm/dd/yyyy): 04/22/2016
 Water Well
 Borehole / Drillhole If a Well Construction Report is available, please attach: _____
 Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): Direct Push
 Formation Type:
 Unconsolidated Formation Bedrock
 Total Well Depth From Ground Surface (ft.): 12 Casing Diameter (in.): 2
 Lower Drillhole Diameter (in.): _____ Casing Depth (ft.): _____
 Was well annular space grouted? Yes No Unknown
 If yes, to what depth (feet)? _____ Depth to Water (feet): _____

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

Pump and piping removed? Yes No N/A
 Liner(s) removed? Yes No N/A
 Liner(s) perforated? Yes No N/A
 Screen removed? Yes No N/A
 Casing left in place? Yes No N/A
 Was casing cut off below surface? Yes No N/A
 Did sealing material rise to surface? Yes No N/A
 Did material settle after 24 hours? Yes No N/A
 If yes, was hole retopped? Yes No N/A
 If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A
 Required Method of Placing Sealing Material:
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): gravity
 Sealing Materials:
 Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips
 For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	12	0.269	

6. Comments

7. Supervision of Work

Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By	
<u>K&E Engineering</u>		<u>04/22/2016</u>			
Street or Route	Telephone Number	Comments			
<u>735 N. Water St. Suite 510</u>	<u>(414) 224 8300</u>				
City	State	ZIP Code	Signature of Person Doing Work	Date Signed	
<u>Milwaukee</u>	<u>WI</u>	<u>53202</u>	<u>[Signature]</u>	<u>04/22/2016</u>	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County <u>Milwaukee</u>		WI Unique Well # of Removed Well		Hicap #		Facility Name <u>Brown Deer</u>	
Latitude / Longitude (see instructions)		Format Code		Method Code		Facility ID (FID or PWS) <u>EP 2</u>	
N		<input type="checkbox"/> DD		<input type="checkbox"/> GPS008		License/Permit/Monitoring #	
W		<input type="checkbox"/> DDM		<input type="checkbox"/> SCR002		Original Well Owner	
1/4 / 1/4		Section		Township		Present Well Owner	
or Gov't Lot #		Range <input type="checkbox"/> E		N		Mailing Address of Present Owner	
Well Street Address <u>8655 N. 43rd St.</u>		Well ZIP Code		City of Present Owner		State ZIP Code	
Well City, Village or Town <u>Village of Brown Deer</u>		Subdivision Name		Lot #		Reason for Removal from Service	
Well Street Address		Well City, Village or Town		Subdivision Name		WI Unique Well # of Replacement Well	

3. Filled & Sealed Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <u>04/22/2016</u>	Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.	Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Construction Type:		Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): <u>Direct Push</u>	<input type="checkbox"/> Dug	Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Formation Type:		Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) <u>8</u>	Casing Diameter (in.) <u>2</u>	If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was well annular space grouted?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown	Required Method of Placing Sealing Material	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped		
If yes, to what depth (feet)?	Depth to Water (feet)	<input type="checkbox"/> Screened & Poured (Bentonite Chips)	<input checked="" type="checkbox"/> Other (Explain): <u>gravity</u>		
5. Material Used to Fill Well / Drillhole		Sealing Materials			
<u>Bentonite chips</u>		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete			
From (ft.) To (ft.) No. Yards, Sacks Sealant or Volume (circle one) Mix Ratio or Mud Weight		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite Chips			
Surface	<u>8</u>	<u>0.176</u>			
6. Comments		For Monitoring Wells and Monitoring Well Boreholes Only:			
		<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used to Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<u>Bentonite chips</u>		Surface	<u>8</u>	<u>0.176</u>	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <u>K E Y Engineering</u>		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <u>04/22/2016</u>	Date Received	Noted By
Street or Route <u>135N Water St. Suite 510</u>		Telephone Number <u>(414) 224 8300</u>		Comments	
City <u>Milwaukee</u>	State <u>WI</u>	ZIP Code <u>53202</u>	Signature of Person Doing Work <u>Camer</u>	Date Signed <u>04/22/2016</u>	

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information			2. Facility / Owner Information		
County <u>Milwaukee</u>	WI Unique Well # of Removed Well	Hicap #	Facility Name <u>Brown Deer</u>		
Latitude / Longitude (see instructions)		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)
N _____ W _____					License/Permit/Monitoring # <u>AP-3</u>
1/4 / 1/4	1/4	Section	Township <u>N</u>	Range <input type="checkbox"/> E <input type="checkbox"/> W	Original Well Owner
or Gov't Lot #					Present Well Owner
Well Street Address <u>8655 N. 43rd St.</u>			Mailing Address of Present Owner		
Well City, Village or Town <u>Village of Brown Deer</u>		Well ZIP Code		City of Present Owner	
Subdivision Name		Lot #		State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <u>04/22/2016</u>	Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.	Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type:		Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): <u>Direct Push</u>	<input type="checkbox"/> Dug	Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Formation Type:		Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) <u>8</u>	Casing Diameter (in.) <u>2</u>	If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown	Depth to Water (feet)	Required Method of Placing Sealing Material	
If yes, to what depth (feet)?		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>gravity</u>	

5. Material Used to Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<u>Bentonite Chips</u>		Surface	<u>8</u>	<u>0.176</u>	

6. Comments

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <u>KEY Engineering</u>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <u>04/22/2016</u>	Date Received	Noted By
Street or Route <u>735 N. Water St. Suite</u>		Telephone Number <u>(414) 224 8500</u>	Comments	
City <u>Milwaukee</u>	State <u>WI</u>	ZIP Code <u>53202</u>	Signature of Person Doing Work <u>Calmer</u>	Date Signed <u>04/22/2016</u>

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County <u>Milwaukee</u>		WI Unique Well # of Removed Well		Hicap #		Facility Name <u>Brown Deer</u>	
Latitude / Longitude (see instructions)				Format Code		Facility ID (FID or PWS)	
_____ N		<input type="checkbox"/> DD		<input type="checkbox"/> GPS008		License/Permit/Monitoring # <u>GP-4</u>	
_____ W		<input type="checkbox"/> DDM		<input type="checkbox"/> SCR002			
		<input type="checkbox"/> OTH001					
1/4 / 1/4		Section		Township		Original Well Owner	
or Gov't Lot #				Range <input type="checkbox"/> E		Present Well Owner	
				<input type="checkbox"/> W		Mailing Address of Present Owner	
Well Street Address <u>8005 N. 43rd St.</u>				City of Present Owner			
Well City, Village or Town <u>Village of Brown Deer</u>				State			
Subdivision Name				ZIP Code			
Reason for Removal from Service				WI Unique Well # of Replacement Well			

3. Filled & Sealed Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <u>04/24/2016</u>	Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.	Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Construction Type:		Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): <u>Direct Push</u>	<input type="checkbox"/> Dug	Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Formation Type:		Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) <u>10</u>	Casing Diameter (in.) <u>2</u>	If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was well annular space grouted?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown	Required Method of Placing Sealing Material	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped		
If yes, to what depth (feet)?	Depth to Water (feet)	<input type="checkbox"/> Screened & Poured (Bentonite Chips)	<input checked="" type="checkbox"/> Other (Explain): <u>gravity</u>		
		Sealing Materials	<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete		
		<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite Chips		
		For Monitoring Wells and Monitoring Well Boreholes Only:			
		<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout		
		<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry		

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<u>Bentonite chips</u>	Surface	<u>10</u>	<u>0.220</u>	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <u>KE Engineering</u>		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <u>04/22/2016</u>	Date Received	Noted By
Street or Route <u>735 N. Water St. Suite 510</u>			Telephone Number <u>(414) 224 8300</u>	Comments	
City <u>Milwaukee</u>	State <u>WI</u>	ZIP Code <u>53202</u>	Signature of Person Doing Work <u>[Signature]</u>	Date Signed <u>04/22/2016</u>	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information				
County <u>Milwaukee</u>	WI Unique Well # of Removed Well	Hicap #	Facility Name <u>Brown Deer</u>	Facility ID (FID or PWS)				
Latitude / Longitude (see instructions)	Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	License/Permit/Monitoring # <u>MP-5</u>					
1/4 / 1/4 or Gov't Lot #	Section	Township <u>N</u>	Range <input type="checkbox"/> E <input type="checkbox"/> W	Original Well Owner				
Well Street Address <u>8695 N. 43rd St.</u>			Present Well Owner					
Well City, Village or Town <u>Village of Brown Deer</u>			Mailing Address of Present Owner					
Subdivision Name			Lot #		City of Present Owner		State ZIP Code	

3. Filled & Sealed Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <u>04/22/2016</u>	Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.	Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type:		Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): <u>Direct Push</u>	<input type="checkbox"/> Dug	Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Formation Type:		Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) <u>14</u>	Casing Diameter (in.) <u>2</u>	If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was well annular space grouted?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown	Required Method of Placing Sealing Material	
If yes, to what depth (feet)?	Depth to Water (feet)	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	

5. Material Used to Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<u>Bentonite chips</u>		Surface	<u>14</u>	<u>0.308</u>	

6. Comments					

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <u>KTY Engineering</u>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <u>04/22/2016</u>	Date Received	Noted By	
Street or Route <u>735 N. Wake St. Suite 510</u>	Telephone Number <u>(414) 224-1300</u>	Comments			
City <u>Milwaukee</u>	State <u>WI</u>	ZIP Code <u>53202</u>	Signature of Person Doing Work <u>Carne</u>	Date Signed <u>04/22/2016</u>	

Attachment 3

May 09, 2016

Jason Kruchko
KEY ENGINEERING GROUP, LTD.
735 North Water St.
Milwaukee, WI 53202

RE: Project: 2404006 BROWN DEER
Pace Project No.: 40131320

Dear Jason Kruchko:

Enclosed are the analytical results for sample(s) received by the laboratory on April 25, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Group, LTD.
Cassie Haupt, KEY ENGINEERING GROUP, LTD.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150

South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40131320001	GP-1 / TW-1 (2-4)	Solid	04/22/16 09:30	04/25/16 14:56
40131320002	GP-1 / TW-1 (8-10)	Solid	04/22/16 09:45	04/25/16 14:56
40131320003	GP-2 (2-4)	Solid	04/22/16 09:50	04/25/16 14:56
40131320004	GP-2 (6-8)	Solid	04/22/16 10:00	04/25/16 14:56
40131320005	GP-3 (2-4)	Solid	04/22/16 10:30	04/25/16 14:56
40131320006	GP-3 (6-8)	Solid	04/22/16 11:00	04/25/16 14:56
40131320007	GP-4 (2-4)	Solid	04/22/16 11:25	04/25/16 14:56
40131320008	GP-4 (8-10)	Solid	04/22/16 11:45	04/25/16 14:56
40131320009	GP-5 (2-4)	Solid	04/22/16 12:10	04/25/16 14:56
40131320010	GP-5 (10-12)	Solid	04/22/16 12:30	04/25/16 14:56
40131320011	SS-1 (0.5-1.5)	Solid	04/22/16 12:50	04/25/16 14:56
40131320012	TW-1 / GP-1	Water	04/22/16 13:00	04/25/16 14:56

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40131320001	GP-1 / TW-1 (2-4)	EPA 8082	BLM	10
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	MAM	1
40131320002	GP-1 / TW-1 (8-10)	EPA 8082	BLM	10
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	MAM	1
40131320003	GP-2 (2-4)	EPA 8082	BLM	10
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	MAM	1
40131320004	GP-2 (6-8)	EPA 8082	BLM	10
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	MAM	1
40131320005	GP-3 (2-4)	EPA 8082	BLM	10
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	MAM	1
40131320006	GP-3 (6-8)	EPA 8082	BLM	10
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	MAM	1
40131320007	GP-4 (2-4)	EPA 8082	BLM	10
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	MAM	1
40131320008	GP-4 (8-10)	EPA 8082	BLM	10
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	MAM	1
40131320009	GP-5 (2-4)	EPA 8082	BLM	10
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	MAM	1
40131320010	GP-5 (10-12)	EPA 8082	BLM	10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40131320011	SS-1 (0.5-1.5)	EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
		ASTM D2974-87	MAM	1
		EPA 8082	BLM	10
		EPA 8270 by SIM	ARO	20
		EPA 8260	SMT	64
40131320012	TW-1 / GP-1	ASTM D2974-87	MAM	1
		EPA 8082	BDS	10
		EPA 8270 by HVI	TPO	20
		EPA 8260	HNW	64

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SUMMARY OF DETECTION

Project: 2404006 BROWN DEER
Pace Project No.: 40131320

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40131320001	GP-1 / TW-1 (2-4)					
ASTM D2974-87	Percent Moisture	22.2	%	0.10	05/05/16 16:10	
40131320002	GP-1 / TW-1 (8-10)					
ASTM D2974-87	Percent Moisture	15.2	%	0.10	05/05/16 16:10	
40131320003	GP-2 (2-4)					
ASTM D2974-87	Percent Moisture	27.6	%	0.10	05/05/16 16:10	
40131320004	GP-2 (6-8)					
ASTM D2974-87	Percent Moisture	3.7	%	0.10	05/05/16 16:11	
40131320005	GP-3 (2-4)					
ASTM D2974-87	Percent Moisture	22.3	%	0.10	05/05/16 16:11	
40131320006	GP-3 (6-8)					
ASTM D2974-87	Percent Moisture	12.9	%	0.10	05/05/16 16:11	
40131320007	GP-4 (2-4)					
ASTM D2974-87	Percent Moisture	22.5	%	0.10	05/05/16 16:11	
40131320008	GP-4 (8-10)					
ASTM D2974-87	Percent Moisture	14.0	%	0.10	05/05/16 16:11	
40131320009	GP-5 (2-4)					
ASTM D2974-87	Percent Moisture	21.4	%	0.10	05/05/16 16:11	
40131320010	GP-5 (10-12)					
ASTM D2974-87	Percent Moisture	13.2	%	0.10	05/05/16 17:05	
40131320011	SS-1 (0.5-1.5)					
EPA 8270 by SIM	Acenaphthene	0.16	mg/kg	0.088	05/06/16 11:15	
EPA 8270 by SIM	Anthracene	1.1	mg/kg	0.088	05/06/16 11:15	
EPA 8270 by SIM	Benzo(a)anthracene	1.5	mg/kg	0.088	05/06/16 11:15	
EPA 8270 by SIM	Benzo(a)pyrene	1.5	mg/kg	0.088	05/06/16 11:15	
EPA 8270 by SIM	Benzo(b)fluoranthene	1.2	mg/kg	0.088	05/06/16 11:15	
EPA 8270 by SIM	Benzo(g,h,i)perylene	0.90	mg/kg	0.088	05/06/16 11:15	
EPA 8270 by SIM	Benzo(k)fluoranthene	1.4	mg/kg	0.088	05/06/16 11:15	
EPA 8270 by SIM	Chrysene	1.8	mg/kg	0.088	05/06/16 11:15	
EPA 8270 by SIM	Dibenz(a,h)anthracene	0.32	mg/kg	0.088	05/06/16 11:15	
EPA 8270 by SIM	Fluoranthene	3.9	mg/kg	0.088	05/06/16 11:15	
EPA 8270 by SIM	Fluorene	0.25	mg/kg	0.088	05/06/16 11:15	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	0.83	mg/kg	0.088	05/06/16 11:15	
EPA 8270 by SIM	Phenanthrene	2.5	mg/kg	0.088	05/06/16 11:15	
EPA 8270 by SIM	Pyrene	2.7	mg/kg	0.088	05/06/16 11:15	
ASTM D2974-87	Percent Moisture	24.2	%	0.10	05/05/16 17:05	
40131320012	TW-1 / GP-1					
EPA 8270 by HVI	Chrysene	0.027J	ug/L	0.28	04/29/16 16:17	
EPA 8270 by HVI	Fluoranthene	0.096J	ug/L	0.28	04/29/16 16:17	B
EPA 8270 by HVI	Phenanthrene	0.13J	ug/L	0.28	04/29/16 16:17	
EPA 8270 by HVI	Pyrene	0.12J	ug/L	0.28	04/29/16 16:17	B

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER
Pace Project No.: 40131320

Sample: GP-1 / TW-1 (2-4) **Lab ID: 40131320001** Collected: 04/22/16 09:30 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 16:22	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 16:22	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 16:22	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 16:22	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 16:22	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 16:22	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 16:22	11096-82-5	
PCB, Total	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 16:22	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	63-130		1	04/26/16 12:49	04/27/16 16:22	877-09-8	
Decachlorobiphenyl (S)	86	%	48-130		1	04/26/16 12:49	04/27/16 16:22	2051-24-3	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/03/16 19:02	83-32-9	
Acenaphthylene	<0.0096	mg/kg	0.021	0.0096	1	05/03/16 09:42	05/03/16 19:02	208-96-8	
Anthracene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/03/16 19:02	120-12-7	
Benzo(a)anthracene	<0.0074	mg/kg	0.021	0.0074	1	05/03/16 09:42	05/03/16 19:02	56-55-3	
Benzo(a)pyrene	<0.0077	mg/kg	0.021	0.0077	1	05/03/16 09:42	05/03/16 19:02	50-32-8	
Benzo(b)fluoranthene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/03/16 19:02	205-99-2	
Benzo(g,h,i)perylene	<0.0082	mg/kg	0.021	0.0082	1	05/03/16 09:42	05/03/16 19:02	191-24-2	
Benzo(k)fluoranthene	<0.012	mg/kg	0.021	0.012	1	05/03/16 09:42	05/03/16 19:02	207-08-9	
Chrysene	<0.0099	mg/kg	0.021	0.0099	1	05/03/16 09:42	05/03/16 19:02	218-01-9	
Dibenz(a,h)anthracene	<0.0079	mg/kg	0.021	0.0079	1	05/03/16 09:42	05/03/16 19:02	53-70-3	
Fluoranthene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/03/16 19:02	206-44-0	
Fluorene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/03/16 19:02	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0081	mg/kg	0.021	0.0081	1	05/03/16 09:42	05/03/16 19:02	193-39-5	
1-Methylnaphthalene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/03/16 19:02	90-12-0	
2-Methylnaphthalene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/03/16 19:02	91-57-6	
Naphthalene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/03/16 19:02	91-20-3	
Phenanthrene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/03/16 19:02	85-01-8	
Pyrene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/03/16 19:02	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	26-130		1	05/03/16 09:42	05/03/16 19:02	321-60-8	
Terphenyl-d14 (S)	57	%	10-130		1	05/03/16 09:42	05/03/16 19:02	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	04/26/16 14:09	04/27/16 18:54	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	98-06-6	W

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-1 / TW-1 (2-4) Lab ID: 40131320001 Collected: 04/22/16 09:30 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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							
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	04/26/16 14:09	04/27/16 18:54	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	04/26/16 14:09	04/27/16 18:54	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	04/26/16 14:09	04/27/16 18:54	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	04/26/16 14:09	04/27/16 18:54	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	04/26/16 14:09	04/27/16 18:54	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	79-01-6	W

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-1 / TW-1 (2-4) **Lab ID: 40131320001** Collected: 04/22/16 09:30 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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									
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	04/26/16 14:09	04/27/16 18:54	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 18:54	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	100	%	53-165		1	04/26/16 14:09	04/27/16 18:54	1868-53-7	
Toluene-d8 (S)	99	%	54-163		1	04/26/16 14:09	04/27/16 18:54	2037-26-5	
4-Bromofluorobenzene (S)	84	%	48-138		1	04/26/16 14:09	04/27/16 18:54	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	22.2	%	0.10	0.10	1		05/05/16 16:10		

Sample: GP-1 / TW-1 (8-10) **Lab ID: 40131320002** Collected: 04/22/16 09:45 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<0.029	mg/kg	0.059	0.029	1	04/26/16 12:49	04/27/16 16:39	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.029	mg/kg	0.059	0.029	1	04/26/16 12:49	04/27/16 16:39	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.029	mg/kg	0.059	0.029	1	04/26/16 12:49	04/27/16 16:39	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.029	mg/kg	0.059	0.029	1	04/26/16 12:49	04/27/16 16:39	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.029	mg/kg	0.059	0.029	1	04/26/16 12:49	04/27/16 16:39	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.029	mg/kg	0.059	0.029	1	04/26/16 12:49	04/27/16 16:39	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.029	mg/kg	0.059	0.029	1	04/26/16 12:49	04/27/16 16:39	11096-82-5	
PCB, Total	<0.029	mg/kg	0.059	0.029	1	04/26/16 12:49	04/27/16 16:39	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	63-130		1	04/26/16 12:49	04/27/16 16:39	877-09-8	
Decachlorobiphenyl (S)	87	%	48-130		1	04/26/16 12:49	04/27/16 16:39	2051-24-3	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.0098	mg/kg	0.020	0.0098	1	05/03/16 09:42	05/03/16 16:43	83-32-9	
Acenaphthylene	<0.0088	mg/kg	0.020	0.0088	1	05/03/16 09:42	05/03/16 16:43	208-96-8	
Anthracene	<0.010	mg/kg	0.020	0.010	1	05/03/16 09:42	05/03/16 16:43	120-12-7	
Benzo(a)anthracene	<0.0068	mg/kg	0.020	0.0068	1	05/03/16 09:42	05/03/16 16:43	56-55-3	
Benzo(a)pyrene	<0.0070	mg/kg	0.020	0.0070	1	05/03/16 09:42	05/03/16 16:43	50-32-8	
Benzo(b)fluoranthene	<0.0098	mg/kg	0.020	0.0098	1	05/03/16 09:42	05/03/16 16:43	205-99-2	
Benzo(g,h,i)perylene	<0.0075	mg/kg	0.020	0.0075	1	05/03/16 09:42	05/03/16 16:43	191-24-2	
Benzo(k)fluoranthene	<0.011	mg/kg	0.020	0.011	1	05/03/16 09:42	05/03/16 16:43	207-08-9	
Chrysene	<0.0091	mg/kg	0.020	0.0091	1	05/03/16 09:42	05/03/16 16:43	218-01-9	

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-1 / TW-1 (8-10) Lab ID: 40131320002 Collected: 04/22/16 09:45 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Dibenz(a,h)anthracene	<0.0072	mg/kg	0.020	0.0072	1	05/03/16 09:42	05/03/16 16:43	53-70-3	
Fluoranthene	<0.0098	mg/kg	0.020	0.0098	1	05/03/16 09:42	05/03/16 16:43	206-44-0	
Fluorene	<0.0098	mg/kg	0.020	0.0098	1	05/03/16 09:42	05/03/16 16:43	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0075	mg/kg	0.020	0.0075	1	05/03/16 09:42	05/03/16 16:43	193-39-5	
1-Methylnaphthalene	<0.0098	mg/kg	0.020	0.0098	1	05/03/16 09:42	05/03/16 16:43	90-12-0	
2-Methylnaphthalene	<0.0098	mg/kg	0.020	0.0098	1	05/03/16 09:42	05/03/16 16:43	91-57-6	
Naphthalene	<0.0098	mg/kg	0.020	0.0098	1	05/03/16 09:42	05/03/16 16:43	91-20-3	
Phenanthrene	<0.0098	mg/kg	0.020	0.0098	1	05/03/16 09:42	05/03/16 16:43	85-01-8	
Pyrene	<0.0098	mg/kg	0.020	0.0098	1	05/03/16 09:42	05/03/16 16:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	57	%	26-130		1	05/03/16 09:42	05/03/16 16:43	321-60-8	
Terphenyl-d14 (S)	65	%	10-130		1	05/03/16 09:42	05/03/16 16:43	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	04/26/16 14:09	04/27/16 19:17	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	04/26/16 14:09	04/27/16 19:17	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	04/26/16 14:09	04/27/16 19:17	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	04/26/16 14:09	04/27/16 19:17	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	142-28-9	W

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-1 / TW-1 (8-10) Lab ID: 40131320002 Collected: 04/22/16 09:45 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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									
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	04/26/16 14:09	04/27/16 19:17	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	04/26/16 14:09	04/27/16 19:17	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	04/26/16 14:09	04/27/16 19:17	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:17	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	53-165		1	04/26/16 14:09	04/27/16 19:17	1868-53-7	
Toluene-d8 (S)	94	%	54-163		1	04/26/16 14:09	04/27/16 19:17	2037-26-5	
4-Bromofluorobenzene (S)	79	%	48-138		1	04/26/16 14:09	04/27/16 19:17	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	15.2	%	0.10	0.10	1		05/05/16 16:10		
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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-2 (2-4) **Lab ID: 40131320003** Collected: 04/22/16 09:50 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<0.035	mg/kg	0.069	0.035	1	04/26/16 12:49	04/27/16 16:56	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.035	mg/kg	0.069	0.035	1	04/26/16 12:49	04/27/16 16:56	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.035	mg/kg	0.069	0.035	1	04/26/16 12:49	04/27/16 16:56	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.035	mg/kg	0.069	0.035	1	04/26/16 12:49	04/27/16 16:56	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.035	mg/kg	0.069	0.035	1	04/26/16 12:49	04/27/16 16:56	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.035	mg/kg	0.069	0.035	1	04/26/16 12:49	04/27/16 16:56	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.035	mg/kg	0.069	0.035	1	04/26/16 12:49	04/27/16 16:56	11096-82-5	
PCB, Total	<0.035	mg/kg	0.069	0.035	1	04/26/16 12:49	04/27/16 16:56	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	63-130		1	04/26/16 12:49	04/27/16 16:56	877-09-8	
Decachlorobiphenyl (S)	86	%	48-130		1	04/26/16 12:49	04/27/16 16:56	2051-24-3	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.012	mg/kg	0.023	0.012	1	05/03/16 09:42	05/03/16 19:20	83-32-9	
Acenaphthylene	<0.010	mg/kg	0.023	0.010	1	05/03/16 09:42	05/03/16 19:20	208-96-8	
Anthracene	<0.012	mg/kg	0.023	0.012	1	05/03/16 09:42	05/03/16 19:20	120-12-7	
Benzo(a)anthracene	<0.0080	mg/kg	0.023	0.0080	1	05/03/16 09:42	05/03/16 19:20	56-55-3	
Benzo(a)pyrene	<0.0082	mg/kg	0.023	0.0082	1	05/03/16 09:42	05/03/16 19:20	50-32-8	
Benzo(b)fluoranthene	<0.012	mg/kg	0.023	0.012	1	05/03/16 09:42	05/03/16 19:20	205-99-2	
Benzo(g,h,i)perylene	<0.0088	mg/kg	0.023	0.0088	1	05/03/16 09:42	05/03/16 19:20	191-24-2	
Benzo(k)fluoranthene	<0.013	mg/kg	0.023	0.013	1	05/03/16 09:42	05/03/16 19:20	207-08-9	
Chrysene	<0.011	mg/kg	0.023	0.011	1	05/03/16 09:42	05/03/16 19:20	218-01-9	
Dibenz(a,h)anthracene	<0.0084	mg/kg	0.023	0.0084	1	05/03/16 09:42	05/03/16 19:20	53-70-3	
Fluoranthene	<0.012	mg/kg	0.023	0.012	1	05/03/16 09:42	05/03/16 19:20	206-44-0	
Fluorene	<0.012	mg/kg	0.023	0.012	1	05/03/16 09:42	05/03/16 19:20	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0088	mg/kg	0.023	0.0088	1	05/03/16 09:42	05/03/16 19:20	193-39-5	
1-Methylnaphthalene	<0.012	mg/kg	0.023	0.012	1	05/03/16 09:42	05/03/16 19:20	90-12-0	
2-Methylnaphthalene	<0.012	mg/kg	0.023	0.012	1	05/03/16 09:42	05/03/16 19:20	91-57-6	
Naphthalene	<0.012	mg/kg	0.023	0.012	1	05/03/16 09:42	05/03/16 19:20	91-20-3	
Phenanthrene	<0.012	mg/kg	0.023	0.012	1	05/03/16 09:42	05/03/16 19:20	85-01-8	
Pyrene	<0.012	mg/kg	0.023	0.012	1	05/03/16 09:42	05/03/16 19:20	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	61	%	26-130		1	05/03/16 09:42	05/03/16 19:20	321-60-8	
Terphenyl-d14 (S)	68	%	10-130		1	05/03/16 09:42	05/03/16 19:20	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	04/26/16 14:09	04/27/16 19:40	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	98-06-6	W

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-2 (2-4) Lab ID: 40131320003 Collected: 04/22/16 09:50 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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									
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	04/26/16 14:09	04/27/16 19:40	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	04/26/16 14:09	04/27/16 19:40	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	04/26/16 14:09	04/27/16 19:40	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	04/26/16 14:09	04/27/16 19:40	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	630-20-6	W
1,1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	04/26/16 14:09	04/27/16 19:40	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	79-01-6	W

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-2 (2-4) **Lab ID: 40131320003** Collected: 04/22/16 09:50 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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									
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	04/26/16 14:09	04/27/16 19:40	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 19:40	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	96	%	53-165		1	04/26/16 14:09	04/27/16 19:40	1868-53-7	
Toluene-d8 (S)	96	%	54-163		1	04/26/16 14:09	04/27/16 19:40	2037-26-5	
4-Bromofluorobenzene (S)	83	%	48-138		1	04/26/16 14:09	04/27/16 19:40	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	27.6	%	0.10	0.10	1		05/05/16 16:10		

Sample: GP-2 (6-8) **Lab ID: 40131320004** Collected: 04/22/16 10:00 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<0.026	mg/kg	0.052	0.026	1	04/26/16 12:49	04/27/16 17:14	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.026	mg/kg	0.052	0.026	1	04/26/16 12:49	04/27/16 17:14	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.026	mg/kg	0.052	0.026	1	04/26/16 12:49	04/27/16 17:14	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.026	mg/kg	0.052	0.026	1	04/26/16 12:49	04/27/16 17:14	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.026	mg/kg	0.052	0.026	1	04/26/16 12:49	04/27/16 17:14	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.026	mg/kg	0.052	0.026	1	04/26/16 12:49	04/27/16 17:14	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.026	mg/kg	0.052	0.026	1	04/26/16 12:49	04/27/16 17:14	11096-82-5	
PCB, Total	<0.026	mg/kg	0.052	0.026	1	04/26/16 12:49	04/27/16 17:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	63-130		1	04/26/16 12:49	04/27/16 17:14	877-09-8	
Decachlorobiphenyl (S)	91	%	48-130		1	04/26/16 12:49	04/27/16 17:14	2051-24-3	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.0087	mg/kg	0.017	0.0087	1	05/03/16 09:42	05/03/16 19:37	83-32-9	
Acenaphthylene	<0.0077	mg/kg	0.017	0.0077	1	05/03/16 09:42	05/03/16 19:37	208-96-8	
Anthracene	<0.0090	mg/kg	0.017	0.0090	1	05/03/16 09:42	05/03/16 19:37	120-12-7	
Benzo(a)anthracene	<0.0060	mg/kg	0.017	0.0060	1	05/03/16 09:42	05/03/16 19:37	56-55-3	
Benzo(a)pyrene	<0.0062	mg/kg	0.017	0.0062	1	05/03/16 09:42	05/03/16 19:37	50-32-8	
Benzo(b)fluoranthene	<0.0087	mg/kg	0.017	0.0087	1	05/03/16 09:42	05/03/16 19:37	205-99-2	
Benzo(g,h,i)perylene	<0.0066	mg/kg	0.017	0.0066	1	05/03/16 09:42	05/03/16 19:37	191-24-2	
Benzo(k)fluoranthene	<0.0096	mg/kg	0.017	0.0096	1	05/03/16 09:42	05/03/16 19:37	207-08-9	
Chrysene	<0.0080	mg/kg	0.017	0.0080	1	05/03/16 09:42	05/03/16 19:37	218-01-9	

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-2 (6-8) **Lab ID: 40131320004** Collected: 04/22/16 10:00 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Dibenz(a,h)anthracene	<0.0063	mg/kg	0.017	0.0063	1	05/03/16 09:42	05/03/16 19:37	53-70-3	
Fluoranthene	<0.0087	mg/kg	0.017	0.0087	1	05/03/16 09:42	05/03/16 19:37	206-44-0	
Fluorene	<0.0087	mg/kg	0.017	0.0087	1	05/03/16 09:42	05/03/16 19:37	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0066	mg/kg	0.017	0.0066	1	05/03/16 09:42	05/03/16 19:37	193-39-5	
1-Methylnaphthalene	<0.0087	mg/kg	0.017	0.0087	1	05/03/16 09:42	05/03/16 19:37	90-12-0	
2-Methylnaphthalene	<0.0087	mg/kg	0.017	0.0087	1	05/03/16 09:42	05/03/16 19:37	91-57-6	
Naphthalene	<0.0087	mg/kg	0.017	0.0087	1	05/03/16 09:42	05/03/16 19:37	91-20-3	
Phenanthrene	<0.0087	mg/kg	0.017	0.0087	1	05/03/16 09:42	05/03/16 19:37	85-01-8	
Pyrene	<0.0087	mg/kg	0.017	0.0087	1	05/03/16 09:42	05/03/16 19:37	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	26-130		1	05/03/16 09:42	05/03/16 19:37	321-60-8	
Terphenyl-d14 (S)	65	%	10-130		1	05/03/16 09:42	05/03/16 19:37	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	04/26/16 14:09	04/27/16 20:02	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	04/26/16 14:09	04/27/16 20:02	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	04/26/16 14:09	04/27/16 20:02	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	04/26/16 14:09	04/27/16 20:02	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	142-28-9	W

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-2 (6-8) **Lab ID: 40131320004** Collected: 04/22/16 10:00 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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									
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	04/26/16 14:09	04/27/16 20:02	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	04/26/16 14:09	04/27/16 20:02	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	04/26/16 14:09	04/27/16 20:02	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:02	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	96	%	53-165		1	04/26/16 14:09	04/27/16 20:02	1868-53-7	
Toluene-d8 (S)	98	%	54-163		1	04/26/16 14:09	04/27/16 20:02	2037-26-5	
4-Bromofluorobenzene (S)	84	%	48-138		1	04/26/16 14:09	04/27/16 20:02	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	3.7	%	0.10	0.10	1		05/05/16 16:11		
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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-3 (2-4) **Lab ID: 40131320005** Collected: 04/22/16 10:30 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 17:31	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 17:31	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 17:31	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 17:31	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 17:31	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 17:31	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 17:31	11096-82-5	
PCB, Total	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 17:31	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	63-130		1	04/26/16 12:49	04/27/16 17:31	877-09-8	
Decachlorobiphenyl (S)	89	%	48-130		1	04/26/16 12:49	04/27/16 17:31	2051-24-3	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 11:22	83-32-9	
Acenaphthylene	<0.0096	mg/kg	0.021	0.0096	1	05/03/16 09:42	05/04/16 11:22	208-96-8	
Anthracene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 11:22	120-12-7	
Benzo(a)anthracene	<0.0074	mg/kg	0.021	0.0074	1	05/03/16 09:42	05/04/16 11:22	56-55-3	
Benzo(a)pyrene	<0.0077	mg/kg	0.021	0.0077	1	05/03/16 09:42	05/04/16 11:22	50-32-8	
Benzo(b)fluoranthene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 11:22	205-99-2	
Benzo(g,h,i)perylene	<0.0082	mg/kg	0.021	0.0082	1	05/03/16 09:42	05/04/16 11:22	191-24-2	
Benzo(k)fluoranthene	<0.012	mg/kg	0.021	0.012	1	05/03/16 09:42	05/04/16 11:22	207-08-9	
Chrysene	<0.0099	mg/kg	0.021	0.0099	1	05/03/16 09:42	05/04/16 11:22	218-01-9	
Dibenz(a,h)anthracene	<0.0079	mg/kg	0.021	0.0079	1	05/03/16 09:42	05/04/16 11:22	53-70-3	
Fluoranthene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 11:22	206-44-0	
Fluorene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 11:22	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0081	mg/kg	0.021	0.0081	1	05/03/16 09:42	05/04/16 11:22	193-39-5	
1-Methylnaphthalene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 11:22	90-12-0	
2-Methylnaphthalene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 11:22	91-57-6	
Naphthalene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 11:22	91-20-3	
Phenanthrene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 11:22	85-01-8	
Pyrene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 11:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50	%	26-130		1	05/03/16 09:42	05/04/16 11:22	321-60-8	
Terphenyl-d14 (S)	62	%	10-130		1	05/03/16 09:42	05/04/16 11:22	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	04/26/16 14:09	04/27/16 20:25	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	98-06-6	W

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER
Pace Project No.: 40131320

Sample: GP-3 (2-4) Lab ID: 40131320005 Collected: 04/22/16 10:30 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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								
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	04/26/16 14:09	04/27/16 20:25	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	04/26/16 14:09	04/27/16 20:25	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	04/26/16 14:09	04/27/16 20:25	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	04/26/16 14:09	04/27/16 20:25	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	04/26/16 14:09	04/27/16 20:25	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	79-01-6	W

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-3 (2-4) **Lab ID: 40131320005** Collected: 04/22/16 10:30 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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									
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	04/26/16 14:09	04/27/16 20:25	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:25	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	53-165		1	04/26/16 14:09	04/27/16 20:25	1868-53-7	
Toluene-d8 (S)	95	%	54-163		1	04/26/16 14:09	04/27/16 20:25	2037-26-5	
4-Bromofluorobenzene (S)	78	%	48-138		1	04/26/16 14:09	04/27/16 20:25	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	22.3	%	0.10	0.10	1		05/05/16 16:11		

Sample: GP-3 (6-8) **Lab ID: 40131320006** Collected: 04/22/16 11:00 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<0.029	mg/kg	0.057	0.029	1	04/26/16 12:49	04/27/16 17:48	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.029	mg/kg	0.057	0.029	1	04/26/16 12:49	04/27/16 17:48	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.029	mg/kg	0.057	0.029	1	04/26/16 12:49	04/27/16 17:48	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.029	mg/kg	0.057	0.029	1	04/26/16 12:49	04/27/16 17:48	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.029	mg/kg	0.057	0.029	1	04/26/16 12:49	04/27/16 17:48	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.029	mg/kg	0.057	0.029	1	04/26/16 12:49	04/27/16 17:48	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.029	mg/kg	0.057	0.029	1	04/26/16 12:49	04/27/16 17:48	11096-82-5	
PCB, Total	<0.029	mg/kg	0.057	0.029	1	04/26/16 12:49	04/27/16 17:48	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	63-130		1	04/26/16 12:49	04/27/16 17:48	877-09-8	
Decachlorobiphenyl (S)	90	%	48-130		1	04/26/16 12:49	04/27/16 17:48	2051-24-3	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 11:40	83-32-9	
Acenaphthylene	<0.0086	mg/kg	0.019	0.0086	1	05/03/16 09:42	05/04/16 11:40	208-96-8	
Anthracene	<0.0099	mg/kg	0.019	0.0099	1	05/03/16 09:42	05/04/16 11:40	120-12-7	
Benzo(a)anthracene	<0.0066	mg/kg	0.019	0.0066	1	05/03/16 09:42	05/04/16 11:40	56-55-3	
Benzo(a)pyrene	<0.0068	mg/kg	0.019	0.0068	1	05/03/16 09:42	05/04/16 11:40	50-32-8	
Benzo(b)fluoranthene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 11:40	205-99-2	
Benzo(g,h,i)perylene	<0.0073	mg/kg	0.019	0.0073	1	05/03/16 09:42	05/04/16 11:40	191-24-2	
Benzo(k)fluoranthene	<0.011	mg/kg	0.019	0.011	1	05/03/16 09:42	05/04/16 11:40	207-08-9	
Chrysene	<0.0089	mg/kg	0.019	0.0089	1	05/03/16 09:42	05/04/16 11:40	218-01-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER
Pace Project No.: 40131320

Sample: GP-3 (6-8) **Lab ID: 40131320006** Collected: 04/22/16 11:00 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Dibenz(a,h)anthracene	<0.0070	mg/kg	0.019	0.0070	1	05/03/16 09:42	05/04/16 11:40	53-70-3	
Fluoranthene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 11:40	206-44-0	
Fluorene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 11:40	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0073	mg/kg	0.019	0.0073	1	05/03/16 09:42	05/04/16 11:40	193-39-5	
1-Methylnaphthalene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 11:40	90-12-0	
2-Methylnaphthalene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 11:40	91-57-6	
Naphthalene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 11:40	91-20-3	
Phenanthrene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 11:40	85-01-8	
Pyrene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 11:40	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59	%	26-130		1	05/03/16 09:42	05/04/16 11:40	321-60-8	
Terphenyl-d14 (S)	69	%	10-130		1	05/03/16 09:42	05/04/16 11:40	1718-51-0	
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	04/26/16 14:09	04/27/16 20:47	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	04/26/16 14:09	04/27/16 20:47	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	04/26/16 14:09	04/27/16 20:47	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	04/26/16 14:09	04/27/16 20:47	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	142-28-9	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-3 (6-8) **Lab ID: 40131320006** Collected: 04/22/16 11:00 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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									
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	04/26/16 14:09	04/27/16 20:47	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	04/26/16 14:09	04/27/16 20:47	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	04/26/16 14:09	04/27/16 20:47	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 20:47	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	53-165		1	04/26/16 14:09	04/27/16 20:47	1868-53-7	
Toluene-d8 (S)	105	%	54-163		1	04/26/16 14:09	04/27/16 20:47	2037-26-5	
4-Bromofluorobenzene (S)	90	%	48-138		1	04/26/16 14:09	04/27/16 20:47	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	12.9	%	0.10	0.10	1		05/05/16 16:11		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-4 (2-4) **Lab ID: 40131320007** Collected: 04/22/16 11:25 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<0.032	mg/kg	0.065	0.032	1	04/26/16 12:49	04/27/16 18:06	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.032	mg/kg	0.065	0.032	1	04/26/16 12:49	04/27/16 18:06	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.032	mg/kg	0.065	0.032	1	04/26/16 12:49	04/27/16 18:06	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.032	mg/kg	0.065	0.032	1	04/26/16 12:49	04/27/16 18:06	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.032	mg/kg	0.065	0.032	1	04/26/16 12:49	04/27/16 18:06	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.032	mg/kg	0.065	0.032	1	04/26/16 12:49	04/27/16 18:06	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.032	mg/kg	0.065	0.032	1	04/26/16 12:49	04/27/16 18:06	11096-82-5	
PCB, Total	<0.032	mg/kg	0.065	0.032	1	04/26/16 12:49	04/27/16 18:06	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	63-130		1	04/26/16 12:49	04/27/16 18:06	877-09-8	
Decachlorobiphenyl (S)	90	%	48-130		1	04/26/16 12:49	04/27/16 18:06	2051-24-3	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.011	mg/kg	0.022	0.011	1	05/03/16 09:42	05/04/16 09:03	83-32-9	
Acenaphthylene	<0.0096	mg/kg	0.022	0.0096	1	05/03/16 09:42	05/04/16 09:03	208-96-8	
Anthracene	<0.011	mg/kg	0.022	0.011	1	05/03/16 09:42	05/04/16 09:03	120-12-7	
Benzo(a)anthracene	<0.0075	mg/kg	0.022	0.0075	1	05/03/16 09:42	05/04/16 09:03	56-55-3	
Benzo(a)pyrene	<0.0077	mg/kg	0.022	0.0077	1	05/03/16 09:42	05/04/16 09:03	50-32-8	
Benzo(b)fluoranthene	<0.011	mg/kg	0.022	0.011	1	05/03/16 09:42	05/04/16 09:03	205-99-2	
Benzo(g,h,i)perylene	<0.0082	mg/kg	0.022	0.0082	1	05/03/16 09:42	05/04/16 09:03	191-24-2	
Benzo(k)fluoranthene	<0.012	mg/kg	0.022	0.012	1	05/03/16 09:42	05/04/16 09:03	207-08-9	
Chrysene	<0.0099	mg/kg	0.022	0.0099	1	05/03/16 09:42	05/04/16 09:03	218-01-9	
Dibenz(a,h)anthracene	<0.0079	mg/kg	0.022	0.0079	1	05/03/16 09:42	05/04/16 09:03	53-70-3	
Fluoranthene	<0.011	mg/kg	0.022	0.011	1	05/03/16 09:42	05/04/16 09:03	206-44-0	
Fluorene	<0.011	mg/kg	0.022	0.011	1	05/03/16 09:42	05/04/16 09:03	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0082	mg/kg	0.022	0.0082	1	05/03/16 09:42	05/04/16 09:03	193-39-5	
1-Methylnaphthalene	<0.011	mg/kg	0.022	0.011	1	05/03/16 09:42	05/04/16 09:03	90-12-0	
2-Methylnaphthalene	<0.011	mg/kg	0.022	0.011	1	05/03/16 09:42	05/04/16 09:03	91-57-6	
Naphthalene	<0.011	mg/kg	0.022	0.011	1	05/03/16 09:42	05/04/16 09:03	91-20-3	
Phenanthrene	<0.011	mg/kg	0.022	0.011	1	05/03/16 09:42	05/04/16 09:03	85-01-8	
Pyrene	<0.011	mg/kg	0.022	0.011	1	05/03/16 09:42	05/04/16 09:03	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	47	%	26-130		1	05/03/16 09:42	05/04/16 09:03	321-60-8	
Terphenyl-d14 (S)	58	%	10-130		1	05/03/16 09:42	05/04/16 09:03	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	04/26/16 14:09	04/27/16 21:10	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	98-06-6	W

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-4 (2-4) Lab ID: 40131320007 Collected: 04/22/16 11:25 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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									
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	04/26/16 14:09	04/27/16 21:10	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	04/26/16 14:09	04/27/16 21:10	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	04/26/16 14:09	04/27/16 21:10	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	04/26/16 14:09	04/27/16 21:10	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	04/26/16 14:09	04/27/16 21:10	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	79-01-6	W

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-4 (2-4) **Lab ID: 40131320007** Collected: 04/22/16 11:25 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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									
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	04/26/16 14:09	04/27/16 21:10	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:10	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	107	%	53-165		1	04/26/16 14:09	04/27/16 21:10	1868-53-7	
Toluene-d8 (S)	106	%	54-163		1	04/26/16 14:09	04/27/16 21:10	2037-26-5	
4-Bromofluorobenzene (S)	89	%	48-138		1	04/26/16 14:09	04/27/16 21:10	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	22.5	%	0.10	0.10	1		05/05/16 16:11		

Sample: GP-4 (8-10) **Lab ID: 40131320008** Collected: 04/22/16 11:45 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:23	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:23	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:23	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:23	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:23	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:23	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:23	11096-82-5	
PCB, Total	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:23	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	63-130		1	04/26/16 12:49	04/27/16 18:23	877-09-8	
Decachlorobiphenyl (S)	96	%	48-130		1	04/26/16 12:49	04/27/16 18:23	2051-24-3	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.0097	mg/kg	0.019	0.0097	1	05/03/16 09:42	05/04/16 09:20	83-32-9	
Acenaphthylene	<0.0087	mg/kg	0.019	0.0087	1	05/03/16 09:42	05/04/16 09:20	208-96-8	
Anthracene	<0.010	mg/kg	0.019	0.010	1	05/03/16 09:42	05/04/16 09:20	120-12-7	
Benzo(a)anthracene	<0.0067	mg/kg	0.019	0.0067	1	05/03/16 09:42	05/04/16 09:20	56-55-3	
Benzo(a)pyrene	<0.0069	mg/kg	0.019	0.0069	1	05/03/16 09:42	05/04/16 09:20	50-32-8	
Benzo(b)fluoranthene	<0.0097	mg/kg	0.019	0.0097	1	05/03/16 09:42	05/04/16 09:20	205-99-2	
Benzo(g,h,i)perylene	<0.0074	mg/kg	0.019	0.0074	1	05/03/16 09:42	05/04/16 09:20	191-24-2	
Benzo(k)fluoranthene	<0.011	mg/kg	0.019	0.011	1	05/03/16 09:42	05/04/16 09:20	207-08-9	
Chrysene	<0.0090	mg/kg	0.019	0.0090	1	05/03/16 09:42	05/04/16 09:20	218-01-9	

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-4 (8-10) **Lab ID: 40131320008** Collected: 04/22/16 11:45 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Dibenz(a,h)anthracene	<0.0071	mg/kg	0.019	0.0071	1	05/03/16 09:42	05/04/16 09:20	53-70-3	
Fluoranthene	<0.0097	mg/kg	0.019	0.0097	1	05/03/16 09:42	05/04/16 09:20	206-44-0	
Fluorene	<0.0097	mg/kg	0.019	0.0097	1	05/03/16 09:42	05/04/16 09:20	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0074	mg/kg	0.019	0.0074	1	05/03/16 09:42	05/04/16 09:20	193-39-5	
1-Methylnaphthalene	<0.0097	mg/kg	0.019	0.0097	1	05/03/16 09:42	05/04/16 09:20	90-12-0	
2-Methylnaphthalene	<0.0097	mg/kg	0.019	0.0097	1	05/03/16 09:42	05/04/16 09:20	91-57-6	
Naphthalene	<0.0097	mg/kg	0.019	0.0097	1	05/03/16 09:42	05/04/16 09:20	91-20-3	
Phenanthrene	<0.0097	mg/kg	0.019	0.0097	1	05/03/16 09:42	05/04/16 09:20	85-01-8	
Pyrene	<0.0097	mg/kg	0.019	0.0097	1	05/03/16 09:42	05/04/16 09:20	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50	%	26-130		1	05/03/16 09:42	05/04/16 09:20	321-60-8	
Terphenyl-d14 (S)	62	%	10-130		1	05/03/16 09:42	05/04/16 09:20	1718-51-0	
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	04/26/16 14:09	04/27/16 21:32	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	04/26/16 14:09	04/27/16 21:32	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	04/26/16 14:09	04/27/16 21:32	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	04/26/16 14:09	04/27/16 21:32	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	142-28-9	W

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-4 (8-10) Lab ID: 40131320008 Collected: 04/22/16 11:45 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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									
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	04/26/16 14:09	04/27/16 21:32	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	04/26/16 14:09	04/27/16 21:32	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	04/26/16 14:09	04/27/16 21:32	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:32	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	97	%	53-165		1	04/26/16 14:09	04/27/16 21:32	1868-53-7	
Toluene-d8 (S)	100	%	54-163		1	04/26/16 14:09	04/27/16 21:32	2037-26-5	
4-Bromofluorobenzene (S)	87	%	48-138		1	04/26/16 14:09	04/27/16 21:32	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	14.0	%	0.10	0.10	1		05/05/16 16:11		
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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-5 (2-4) **Lab ID: 40131320009** Collected: 04/22/16 12:10 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 18:40	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 18:40	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 18:40	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 18:40	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 18:40	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 18:40	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 18:40	11096-82-5	
PCB, Total	<0.032	mg/kg	0.064	0.032	1	04/26/16 12:49	04/27/16 18:40	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	63-130		1	04/26/16 12:49	04/27/16 18:40	877-09-8	
Decachlorobiphenyl (S)	93	%	48-130		1	04/26/16 12:49	04/27/16 18:40	2051-24-3	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 09:38	83-32-9	
Acenaphthylene	<0.0095	mg/kg	0.021	0.0095	1	05/03/16 09:42	05/04/16 09:38	208-96-8	
Anthracene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 09:38	120-12-7	
Benzo(a)anthracene	<0.0074	mg/kg	0.021	0.0074	1	05/03/16 09:42	05/04/16 09:38	56-55-3	
Benzo(a)pyrene	<0.0076	mg/kg	0.021	0.0076	1	05/03/16 09:42	05/04/16 09:38	50-32-8	
Benzo(b)fluoranthene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 09:38	205-99-2	
Benzo(g,h,i)perylene	<0.0081	mg/kg	0.021	0.0081	1	05/03/16 09:42	05/04/16 09:38	191-24-2	
Benzo(k)fluoranthene	<0.012	mg/kg	0.021	0.012	1	05/03/16 09:42	05/04/16 09:38	207-08-9	
Chrysene	<0.0098	mg/kg	0.021	0.0098	1	05/03/16 09:42	05/04/16 09:38	218-01-9	
Dibenz(a,h)anthracene	<0.0078	mg/kg	0.021	0.0078	1	05/03/16 09:42	05/04/16 09:38	53-70-3	
Fluoranthene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 09:38	206-44-0	
Fluorene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 09:38	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0081	mg/kg	0.021	0.0081	1	05/03/16 09:42	05/04/16 09:38	193-39-5	
1-Methylnaphthalene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 09:38	90-12-0	
2-Methylnaphthalene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 09:38	91-57-6	
Naphthalene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 09:38	91-20-3	
Phenanthrene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 09:38	85-01-8	
Pyrene	<0.011	mg/kg	0.021	0.011	1	05/03/16 09:42	05/04/16 09:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53	%	26-130		1	05/03/16 09:42	05/04/16 09:38	321-60-8	
Terphenyl-d14 (S)	66	%	10-130		1	05/03/16 09:42	05/04/16 09:38	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	04/26/16 14:09	04/27/16 21:55	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	98-06-6	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-5 (2-4) Lab ID: 40131320009 Collected: 04/22/16 12:10 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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									
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	04/26/16 14:09	04/27/16 21:55	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	04/26/16 14:09	04/27/16 21:55	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	04/26/16 14:09	04/27/16 21:55	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	04/26/16 14:09	04/27/16 21:55	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	04/26/16 14:09	04/27/16 21:55	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	79-01-6	W

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-5 (2-4) **Lab ID: 40131320009** Collected: 04/22/16 12:10 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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									
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	04/26/16 14:09	04/27/16 21:55	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 21:55	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	100	%	53-165		1	04/26/16 14:09	04/27/16 21:55	1868-53-7	
Toluene-d8 (S)	100	%	54-163		1	04/26/16 14:09	04/27/16 21:55	2037-26-5	
4-Bromofluorobenzene (S)	84	%	48-138		1	04/26/16 14:09	04/27/16 21:55	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	21.4	%	0.10	0.10	1		05/05/16 16:11		

Sample: GP-5 (10-12) **Lab ID: 40131320010** Collected: 04/22/16 12:30 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:58	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:58	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:58	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:58	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:58	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:58	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:58	11096-82-5	
PCB, Total	<0.029	mg/kg	0.058	0.029	1	04/26/16 12:49	04/27/16 18:58	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	63-130		1	04/26/16 12:49	04/27/16 18:58	877-09-8	
Decachlorobiphenyl (S)	90	%	48-130		1	04/26/16 12:49	04/27/16 18:58	2051-24-3	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 09:55	83-32-9	
Acenaphthylene	<0.0086	mg/kg	0.019	0.0086	1	05/03/16 09:42	05/04/16 09:55	208-96-8	
Anthracene	<0.010	mg/kg	0.019	0.010	1	05/03/16 09:42	05/04/16 09:55	120-12-7	
Benzo(a)anthracene	<0.0067	mg/kg	0.019	0.0067	1	05/03/16 09:42	05/04/16 09:55	56-55-3	
Benzo(a)pyrene	<0.0069	mg/kg	0.019	0.0069	1	05/03/16 09:42	05/04/16 09:55	50-32-8	
Benzo(b)fluoranthene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 09:55	205-99-2	
Benzo(g,h,i)perylene	<0.0073	mg/kg	0.019	0.0073	1	05/03/16 09:42	05/04/16 09:55	191-24-2	
Benzo(k)fluoranthene	<0.011	mg/kg	0.019	0.011	1	05/03/16 09:42	05/04/16 09:55	207-08-9	
Chrysene	<0.0089	mg/kg	0.019	0.0089	1	05/03/16 09:42	05/04/16 09:55	218-01-9	

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-5 (10-12) **Lab ID: 40131320010** Collected: 04/22/16 12:30 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Dibenz(a,h)anthracene	<0.0070	mg/kg	0.019	0.0070	1	05/03/16 09:42	05/04/16 09:55	53-70-3	
Fluoranthene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 09:55	206-44-0	
Fluorene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 09:55	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0073	mg/kg	0.019	0.0073	1	05/03/16 09:42	05/04/16 09:55	193-39-5	
1-Methylnaphthalene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 09:55	90-12-0	
2-Methylnaphthalene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 09:55	91-57-6	
Naphthalene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 09:55	91-20-3	
Phenanthrene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 09:55	85-01-8	
Pyrene	<0.0096	mg/kg	0.019	0.0096	1	05/03/16 09:42	05/04/16 09:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	46	%	26-130		1	05/03/16 09:42	05/04/16 09:55	321-60-8	
Terphenyl-d14 (S)	62	%	10-130		1	05/03/16 09:42	05/04/16 09:55	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	04/26/16 14:09	04/27/16 22:18	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	98-06-6	W
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	04/26/16 14:09	04/27/16 22:18	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	04/26/16 14:09	04/27/16 22:18	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	04/26/16 14:09	04/27/16 22:18	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	142-28-9	W

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: GP-5 (10-12) Lab ID: 40131320010 Collected: 04/22/16 12:30 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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									
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	04/26/16 14:09	04/27/16 22:18	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	630-20-6	W
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	04/26/16 14:09	04/27/16 22:18	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	79-01-6	W
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	04/26/16 14:09	04/27/16 22:18	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	04/26/16 14:09	04/27/16 22:18	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	53-165		1	04/26/16 14:09	04/27/16 22:18	1868-53-7	
Toluene-d8 (S)	111	%	54-163		1	04/26/16 14:09	04/27/16 22:18	2037-26-5	
4-Bromofluorobenzene (S)	92	%	48-138		1	04/26/16 14:09	04/27/16 22:18	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	13.2	%	0.10	0.10	1		05/05/16 17:05		
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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: SS-1 (0.5-1.5) **Lab ID: 40131320011** Collected: 04/22/16 12:50 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	<0.033	mg/kg	0.066	0.033	1	04/26/16 12:49	04/27/16 19:15	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.033	mg/kg	0.066	0.033	1	04/26/16 12:49	04/27/16 19:15	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.033	mg/kg	0.066	0.033	1	04/26/16 12:49	04/27/16 19:15	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.033	mg/kg	0.066	0.033	1	04/26/16 12:49	04/27/16 19:15	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.033	mg/kg	0.066	0.033	1	04/26/16 12:49	04/27/16 19:15	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.033	mg/kg	0.066	0.033	1	04/26/16 12:49	04/27/16 19:15	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.033	mg/kg	0.066	0.033	1	04/26/16 12:49	04/27/16 19:15	11096-82-5	
PCB, Total	<0.033	mg/kg	0.066	0.033	1	04/26/16 12:49	04/27/16 19:15	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	71	%	63-130		1	04/26/16 12:49	04/27/16 19:15	877-09-8	
Decachlorobiphenyl (S)	75	%	48-130		1	04/26/16 12:49	04/27/16 19:15	2051-24-3	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	0.16	mg/kg	0.088	0.044	4	05/06/16 09:18	05/06/16 11:15	83-32-9	
Acenaphthylene	<0.039	mg/kg	0.088	0.039	4	05/06/16 09:18	05/06/16 11:15	208-96-8	
Anthracene	1.1	mg/kg	0.088	0.046	4	05/06/16 09:18	05/06/16 11:15	120-12-7	
Benzo(a)anthracene	1.5	mg/kg	0.088	0.030	4	05/06/16 09:18	05/06/16 11:15	56-55-3	
Benzo(a)pyrene	1.5	mg/kg	0.088	0.031	4	05/06/16 09:18	05/06/16 11:15	50-32-8	
Benzo(b)fluoranthene	1.2	mg/kg	0.088	0.044	4	05/06/16 09:18	05/06/16 11:15	205-99-2	
Benzo(g,h,i)perylene	0.90	mg/kg	0.088	0.033	4	05/06/16 09:18	05/06/16 11:15	191-24-2	
Benzo(k)fluoranthene	1.4	mg/kg	0.088	0.049	4	05/06/16 09:18	05/06/16 11:15	207-08-9	
Chrysene	1.8	mg/kg	0.088	0.041	4	05/06/16 09:18	05/06/16 11:15	218-01-9	
Dibenz(a,h)anthracene	0.32	mg/kg	0.088	0.032	4	05/06/16 09:18	05/06/16 11:15	53-70-3	
Fluoranthene	3.9	mg/kg	0.088	0.044	4	05/06/16 09:18	05/06/16 11:15	206-44-0	
Fluorene	0.25	mg/kg	0.088	0.044	4	05/06/16 09:18	05/06/16 11:15	86-73-7	
Indeno(1,2,3-cd)pyrene	0.83	mg/kg	0.088	0.033	4	05/06/16 09:18	05/06/16 11:15	193-39-5	
1-Methylnaphthalene	<0.044	mg/kg	0.088	0.044	4	05/06/16 09:18	05/06/16 11:15	90-12-0	
2-Methylnaphthalene	<0.044	mg/kg	0.088	0.044	4	05/06/16 09:18	05/06/16 11:15	91-57-6	
Naphthalene	<0.044	mg/kg	0.088	0.044	4	05/06/16 09:18	05/06/16 11:15	91-20-3	
Phenanthrene	2.5	mg/kg	0.088	0.044	4	05/06/16 09:18	05/06/16 11:15	85-01-8	
Pyrene	2.7	mg/kg	0.088	0.044	4	05/06/16 09:18	05/06/16 11:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	49	%	26-130		4	05/06/16 09:18	05/06/16 11:15	321-60-8	
Terphenyl-d14 (S)	61	%	10-130		4	05/06/16 09:18	05/06/16 11:15	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Benzene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	71-43-2	W
Bromobenzene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	108-86-1	W
Bromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	74-97-5	W
Bromodichloromethane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	75-27-4	W
Bromoform	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	75-25-2	W
Bromomethane	<0.070	mg/kg	0.25	0.070	1	04/27/16 07:00	04/27/16 09:44	74-83-9	W
n-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	104-51-8	W
sec-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	135-98-8	W
tert-Butylbenzene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	98-06-6	W

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: **SS-1 (0.5-1.5)** Lab ID: **40131320011** Collected: 04/22/16 12:50 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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									
Carbon tetrachloride	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	56-23-5	W
Chlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	108-90-7	W
Chloroethane	<0.067	mg/kg	0.25	0.067	1	04/27/16 07:00	04/27/16 09:44	75-00-3	W
Chloroform	<0.046	mg/kg	0.25	0.046	1	04/27/16 07:00	04/27/16 09:44	67-66-3	W
Chloromethane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	74-87-3	W
2-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	95-49-8	W
4-Chlorotoluene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	106-43-4	W
1,2-Dibromo-3-chloropropane	<0.091	mg/kg	0.25	0.091	1	04/27/16 07:00	04/27/16 09:44	96-12-8	W
Dibromochloromethane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	124-48-1	W
1,2-Dibromoethane (EDB)	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	106-93-4	W
Dibromomethane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	74-95-3	W
1,2-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	95-50-1	W
1,3-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	541-73-1	W
1,4-Dichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	106-46-7	W
Dichlorodifluoromethane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	75-71-8	W
1,1-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	75-34-3	W
1,2-Dichloroethane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	107-06-2	W
1,1-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	75-35-4	W
cis-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	156-59-2	W
trans-1,2-Dichloroethene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	156-60-5	W
1,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	78-87-5	W
1,3-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	142-28-9	W
2,2-Dichloropropane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	594-20-7	W
1,1-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	563-58-6	W
cis-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	10061-01-5	W
trans-1,3-Dichloropropene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	10061-02-6	W
Diisopropyl ether	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	108-20-3	W
Ethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	100-41-4	W
Hexachloro-1,3-butadiene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	87-68-3	W
Isopropylbenzene (Cumene)	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	98-82-8	W
p-Isopropyltoluene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	99-87-6	W
Methylene Chloride	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	75-09-2	W
Methyl-tert-butyl ether	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	1634-04-4	W
Naphthalene	<0.040	mg/kg	0.25	0.040	1	04/27/16 07:00	04/27/16 09:44	91-20-3	W
n-Propylbenzene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	103-65-1	W
Styrene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	100-42-5	W
1,1,1,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	630-20-6	W
1,1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	79-34-5	W
Tetrachloroethene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	127-18-4	W
Toluene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	108-88-3	W
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	87-61-6	W
1,2,4-Trichlorobenzene	<0.048	mg/kg	0.25	0.048	1	04/27/16 07:00	04/27/16 09:44	120-82-1	W
1,1,1-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	71-55-6	W
1,1,2-Trichloroethane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	79-00-5	W
Trichloroethene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	79-01-6	W

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: SS-1 (0.5-1.5) **Lab ID: 40131320011** Collected: 04/22/16 12:50 Received: 04/25/16 14:56 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

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									
Trichlorofluoromethane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	75-69-4	W
1,2,3-Trichloropropane	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	96-18-4	W
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	95-63-6	W
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	108-67-8	W
Vinyl chloride	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	75-01-4	W
m&p-Xylene	<0.050	mg/kg	0.12	0.050	1	04/27/16 07:00	04/27/16 09:44	179601-23-1	W
o-Xylene	<0.025	mg/kg	0.060	0.025	1	04/27/16 07:00	04/27/16 09:44	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	53-165		1	04/27/16 07:00	04/27/16 09:44	1868-53-7	
Toluene-d8 (S)	95	%	54-163		1	04/27/16 07:00	04/27/16 09:44	2037-26-5	
4-Bromofluorobenzene (S)	81	%	48-138		1	04/27/16 07:00	04/27/16 09:44	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	24.2	%	0.10	0.10	1		05/05/16 17:05		

Sample: TW-1 / GP-1 **Lab ID: 40131320012** Collected: 04/22/16 13:00 Received: 04/25/16 14:56 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	<0.26	ug/L	0.52	0.26	1	04/27/16 08:30	04/28/16 22:21	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.26	ug/L	0.52	0.26	1	04/27/16 08:30	04/28/16 22:21	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.26	ug/L	0.52	0.26	1	04/27/16 08:30	04/28/16 22:21	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.26	ug/L	0.52	0.26	1	04/27/16 08:30	04/28/16 22:21	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.26	ug/L	0.52	0.26	1	04/27/16 08:30	04/28/16 22:21	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.26	ug/L	0.52	0.26	1	04/27/16 08:30	04/28/16 22:21	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.26	ug/L	0.52	0.26	1	04/27/16 08:30	04/28/16 22:21	11096-82-5	
PCB, Total	<0.26	ug/L	0.52	0.26	1	04/27/16 08:30	04/28/16 22:21	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	78	%	39-151		1	04/27/16 08:30	04/28/16 22:21	877-09-8	
Decachlorobiphenyl (S)	74	%	36-140		1	04/27/16 08:30	04/28/16 22:21	2051-24-3	
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.028	ug/L	0.28	0.028	5	04/29/16 08:20	04/29/16 16:17	83-32-9	
Acenaphthylene	<0.027	ug/L	0.28	0.027	5	04/29/16 08:20	04/29/16 16:17	208-96-8	
Anthracene	<0.022	ug/L	0.28	0.022	5	04/29/16 08:20	04/29/16 16:17	120-12-7	
Benzo(a)anthracene	<0.028	ug/L	0.28	0.028	5	04/29/16 08:20	04/29/16 16:17	56-55-3	
Benzo(a)pyrene	<0.025	ug/L	0.28	0.025	5	04/29/16 08:20	04/29/16 16:17	50-32-8	
Benzo(b)fluoranthene	<0.030	ug/L	0.28	0.030	5	04/29/16 08:20	04/29/16 16:17	205-99-2	
Benzo(g,h,i)perylene	<0.019	ug/L	0.28	0.019	5	04/29/16 08:20	04/29/16 16:17	191-24-2	
Benzo(k)fluoranthene	<0.031	ug/L	0.28	0.031	5	04/29/16 08:20	04/29/16 16:17	207-08-9	
Chrysene	0.027J	ug/L	0.28	0.024	5	04/29/16 08:20	04/29/16 16:17	218-01-9	
Dibenz(a,h)anthracene	<0.031	ug/L	0.28	0.031	5	04/29/16 08:20	04/29/16 16:17	53-70-3	

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: TW-1 / GP-1 Lab ID: 40131320012 Collected: 04/22/16 13:00 Received: 04/25/16 14:56 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Fluoranthene	0.096J	ug/L	0.28	0.052	5	04/29/16 08:20	04/29/16 16:17	206-44-0	B
Fluorene	<0.022	ug/L	0.28	0.022	5	04/29/16 08:20	04/29/16 16:17	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.020	ug/L	0.28	0.020	5	04/29/16 08:20	04/29/16 16:17	193-39-5	
1-Methylnaphthalene	<0.017	ug/L	0.28	0.017	5	04/29/16 08:20	04/29/16 16:17	90-12-0	
2-Methylnaphthalene	<0.015	ug/L	0.28	0.015	5	04/29/16 08:20	04/29/16 16:17	91-57-6	
Naphthalene	<0.025	ug/L	0.28	0.025	5	04/29/16 08:20	04/29/16 16:17	91-20-3	D3
Phenanthrene	0.13J	ug/L	0.28	0.043	5	04/29/16 08:20	04/29/16 16:17	85-01-8	
Pyrene	0.12J	ug/L	0.28	0.043	5	04/29/16 08:20	04/29/16 16:17	129-00-0	B
Surrogates									
2-Fluorobiphenyl (S)	43	%	25-130		5	04/29/16 08:20	04/29/16 16:17	321-60-8	
Terphenyl-d14 (S)	25	%	13-158		5	04/29/16 08:20	04/29/16 16:17	1718-51-0	
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/04/16 08:58	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/04/16 08:58	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/04/16 08:58	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/04/16 08:58	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/04/16 08:58	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/04/16 08:58	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/04/16 08:58	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/04/16 08:58	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/04/16 08:58	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/04/16 08:58	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/04/16 08:58	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/04/16 08:58	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/04/16 08:58	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/04/16 08:58	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/04/16 08:58	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/04/16 08:58	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/04/16 08:58	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/04/16 08:58	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/04/16 08:58	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/04/16 08:58	563-58-6	

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ANALYTICAL RESULTS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Sample: TW-1 / GP-1 **Lab ID:** 40131320012 Collected: 04/22/16 13:00 Received: 04/25/16 14:56 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/04/16 08:58	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/04/16 08:58	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/04/16 08:58	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/04/16 08:58	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/04/16 08:58	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/04/16 08:58	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/04/16 08:58	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/04/16 08:58	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/04/16 08:58	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/04/16 08:58	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/04/16 08:58	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/04/16 08:58	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/04/16 08:58	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/04/16 08:58	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/04/16 08:58	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/04/16 08:58	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		05/04/16 08:58	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		05/04/16 08:58	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		05/04/16 08:58	2037-26-5	

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

QC Batch: MSV/33162 Analysis Method: EPA 8260
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
 Associated Lab Samples: 40131320001, 40131320002, 40131320003, 40131320004, 40131320005, 40131320006, 40131320007, 40131320008, 40131320009, 40131320010

METHOD BLANK: 1326073 Matrix: Solid
 Associated Lab Samples: 40131320001, 40131320002, 40131320003, 40131320004, 40131320005, 40131320006, 40131320007, 40131320008, 40131320009, 40131320010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	<0.014	0.050	04/27/16 16:38	
1,1,1-Trichloroethane	mg/kg	<0.014	0.050	04/27/16 16:38	
1,1,2,2-Tetrachloroethane	mg/kg	<0.018	0.050	04/27/16 16:38	
1,1,2-Trichloroethane	mg/kg	<0.020	0.050	04/27/16 16:38	
1,1-Dichloroethane	mg/kg	<0.018	0.050	04/27/16 16:38	
1,1-Dichloroethene	mg/kg	<0.018	0.050	04/27/16 16:38	
1,1-Dichloropropene	mg/kg	<0.014	0.050	04/27/16 16:38	
1,2,3-Trichlorobenzene	mg/kg	<0.017	0.050	04/27/16 16:38	
1,2,3-Trichloropropane	mg/kg	<0.022	0.050	04/27/16 16:38	
1,2,4-Trichlorobenzene	mg/kg	<0.048	0.25	04/27/16 16:38	
1,2,4-Trimethylbenzene	mg/kg	<0.012	0.050	04/27/16 16:38	
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	0.25	04/27/16 16:38	
1,2-Dibromoethane (EDB)	mg/kg	<0.015	0.050	04/27/16 16:38	
1,2-Dichlorobenzene	mg/kg	<0.016	0.050	04/27/16 16:38	
1,2-Dichloroethane	mg/kg	<0.015	0.050	04/27/16 16:38	
1,2-Dichloropropane	mg/kg	<0.017	0.050	04/27/16 16:38	
1,3,5-Trimethylbenzene	mg/kg	<0.014	0.050	04/27/16 16:38	
1,3-Dichlorobenzene	mg/kg	<0.013	0.050	04/27/16 16:38	
1,3-Dichloropropane	mg/kg	<0.012	0.050	04/27/16 16:38	
1,4-Dichlorobenzene	mg/kg	<0.016	0.050	04/27/16 16:38	
2,2-Dichloropropane	mg/kg	<0.013	0.050	04/27/16 16:38	
2-Chlorotoluene	mg/kg	<0.016	0.050	04/27/16 16:38	
4-Chlorotoluene	mg/kg	<0.013	0.050	04/27/16 16:38	
Benzene	mg/kg	<0.0092	0.020	04/27/16 16:38	
Bromobenzene	mg/kg	<0.021	0.050	04/27/16 16:38	
Bromochloromethane	mg/kg	<0.021	0.050	04/27/16 16:38	
Bromodichloromethane	mg/kg	<0.0098	0.050	04/27/16 16:38	
Bromoform	mg/kg	<0.020	0.050	04/27/16 16:38	
Bromomethane	mg/kg	<0.070	0.25	04/27/16 16:38	
Carbon tetrachloride	mg/kg	<0.012	0.050	04/27/16 16:38	
Chlorobenzene	mg/kg	<0.015	0.050	04/27/16 16:38	
Chloroethane	mg/kg	<0.067	0.25	04/27/16 16:38	
Chloroform	mg/kg	<0.046	0.25	04/27/16 16:38	
Chloromethane	mg/kg	<0.020	0.050	04/27/16 16:38	
cis-1,2-Dichloroethene	mg/kg	<0.017	0.050	04/27/16 16:38	
cis-1,3-Dichloropropene	mg/kg	<0.017	0.050	04/27/16 16:38	
Dibromochloromethane	mg/kg	<0.018	0.050	04/27/16 16:38	
Dibromomethane	mg/kg	<0.019	0.050	04/27/16 16:38	
Dichlorodifluoromethane	mg/kg	<0.012	0.050	04/27/16 16:38	
Diisopropyl ether	mg/kg	<0.018	0.050	04/27/16 16:38	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

METHOD BLANK: 1326073

Matrix: Solid

Associated Lab Samples: 40131320001, 40131320002, 40131320003, 40131320004, 40131320005, 40131320006, 40131320007, 40131320008, 40131320009, 40131320010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	mg/kg	<0.012	0.050	04/27/16 16:38	
Hexachloro-1,3-butadiene	mg/kg	<0.024	0.050	04/27/16 16:38	
Isopropylbenzene (Cumene)	mg/kg	<0.013	0.050	04/27/16 16:38	
m&p-Xylene	mg/kg	<0.034	0.10	04/27/16 16:38	
Methyl-tert-butyl ether	mg/kg	<0.013	0.050	04/27/16 16:38	
Methylene Chloride	mg/kg	<0.016	0.050	04/27/16 16:38	
n-Butylbenzene	mg/kg	<0.011	0.050	04/27/16 16:38	
n-Propylbenzene	mg/kg	<0.012	0.050	04/27/16 16:38	
Naphthalene	mg/kg	<0.040	0.25	04/27/16 16:38	
o-Xylene	mg/kg	<0.014	0.050	04/27/16 16:38	
p-Isopropyltoluene	mg/kg	<0.012	0.050	04/27/16 16:38	
sec-Butylbenzene	mg/kg	<0.012	0.050	04/27/16 16:38	
Styrene	mg/kg	<0.0090	0.050	04/27/16 16:38	
tert-Butylbenzene	mg/kg	<0.0095	0.050	04/27/16 16:38	
Tetrachloroethene	mg/kg	<0.013	0.050	04/27/16 16:38	
Toluene	mg/kg	<0.011	0.050	04/27/16 16:38	
trans-1,2-Dichloroethene	mg/kg	<0.016	0.050	04/27/16 16:38	
trans-1,3-Dichloropropene	mg/kg	<0.014	0.050	04/27/16 16:38	
Trichloroethene	mg/kg	<0.024	0.050	04/27/16 16:38	
Trichlorofluoromethane	mg/kg	<0.025	0.050	04/27/16 16:38	
Vinyl chloride	mg/kg	<0.021	0.050	04/27/16 16:38	
4-Bromofluorobenzene (S)	%	89	48-138	04/27/16 16:38	
Dibromofluoromethane (S)	%	106	53-165	04/27/16 16:38	
Toluene-d8 (S)	%	104	54-163	04/27/16 16:38	

LABORATORY CONTROL SAMPLE: 1326074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	2.5	2.4	95	70-130	
1,1,2,2-Tetrachloroethane	mg/kg	2.5	2.6	102	70-130	
1,1,2-Trichloroethane	mg/kg	2.5	2.5	100	70-130	
1,1-Dichloroethane	mg/kg	2.5	2.3	92	70-133	
1,1-Dichloroethene	mg/kg	2.5	2.1	84	70-130	
1,2,4-Trichlorobenzene	mg/kg	2.5	2.3	94	70-130	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	2.5	99	50-150	
1,2-Dibromoethane (EDB)	mg/kg	2.5	2.5	101	70-130	
1,2-Dichlorobenzene	mg/kg	2.5	2.3	94	70-130	
1,2-Dichloroethane	mg/kg	2.5	2.5	100	70-138	
1,2-Dichloropropane	mg/kg	2.5	2.5	99	70-130	
1,3-Dichlorobenzene	mg/kg	2.5	2.3	92	70-130	
1,4-Dichlorobenzene	mg/kg	2.5	2.4	95	70-130	
Benzene	mg/kg	2.5	2.5	99	70-130	
Bromodichloromethane	mg/kg	2.5	2.5	101	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

LABORATORY CONTROL SAMPLE: 1326074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	mg/kg	2.5	2.3	90	68-130	
Bromomethane	mg/kg	2.5	2.0	81	25-163	
Carbon tetrachloride	mg/kg	2.5	2.4	96	70-130	
Chlorobenzene	mg/kg	2.5	2.4	97	70-130	
Chloroethane	mg/kg	2.5	2.2	89	34-151	
Chloroform	mg/kg	2.5	2.3	94	70-130	
Chloromethane	mg/kg	2.5	1.6	66	52-130	
cis-1,2-Dichloroethene	mg/kg	2.5	2.3	91	70-130	
cis-1,3-Dichloropropene	mg/kg	2.5	2.3	94	70-130	
Dibromochloromethane	mg/kg	2.5	2.6	104	70-130	
Dichlorodifluoromethane	mg/kg	2.5	1.2	48	27-150	
Ethylbenzene	mg/kg	2.5	2.5	101	70-130	
Isopropylbenzene (Cumene)	mg/kg	2.5	2.4	95	70-130	
m&p-Xylene	mg/kg	5	5.2	104	70-130	
Methyl-tert-butyl ether	mg/kg	2.5	2.5	101	70-130	
Methylene Chloride	mg/kg	2.5	2.4	97	70-131	
o-Xylene	mg/kg	2.5	2.5	100	70-130	
Styrene	mg/kg	2.5	2.4	96	70-130	
Tetrachloroethene	mg/kg	2.5	2.6	103	70-130	
Toluene	mg/kg	2.5	2.6	103	70-130	
trans-1,2-Dichloroethene	mg/kg	2.5	2.2	87	70-130	
trans-1,3-Dichloropropene	mg/kg	2.5	2.6	103	70-130	
Trichloroethene	mg/kg	2.5	2.5	100	70-130	
Trichlorofluoromethane	mg/kg	2.5	2.0	82	50-150	
Vinyl chloride	mg/kg	2.5	1.8	74	57-130	
4-Bromofluorobenzene (S)	%			95	48-138	
Dibromofluoromethane (S)	%			96	53-165	
Toluene-d8 (S)	%			102	54-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326075 1326076

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40131320002 Result	Spike Conc.	Spike Conc.	Result							
1,1,1-Trichloroethane	mg/kg	<0.025	1.4	1.4	1.3	1.2	87	82	70-130	5	20	
1,1,2,2-Tetrachloroethane	mg/kg	<0.025	1.4	1.4	1.5	1.5	99	102	70-130	4	20	
1,1,2-Trichloroethane	mg/kg	<0.025	1.4	1.4	1.4	1.4	94	96	70-130	2	20	
1,1-Dichloroethane	mg/kg	<0.025	1.4	1.4	1.3	1.2	91	84	64-133	8	20	
1,1-Dichloroethene	mg/kg	<0.025	1.4	1.4	1.1	0.91	75	62	56-130	20	24	
1,2,4-Trichlorobenzene	mg/kg	<0.048	1.4	1.4	1.4	1.3	98	92	70-130	6	20	
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	1.4	1.4	1.5	1.4	100	92	50-150	8	20	
1,2-Dibromoethane (EDB)	mg/kg	<0.025	1.4	1.4	1.5	1.4	101	98	70-130	3	20	
1,2-Dichlorobenzene	mg/kg	<0.025	1.4	1.4	1.4	1.3	93	91	70-130	2	20	
1,2-Dichloroethane	mg/kg	<0.025	1.4	1.4	1.5	1.3	102	91	70-138	11	20	
1,2-Dichloropropane	mg/kg	<0.025	1.4	1.4	1.4	1.4	97	94	70-130	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326075		1326076		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40131320002 Result	MS Spike Conc.	MSD Spike Conc.	MSD Result								
1,3-Dichlorobenzene	mg/kg	<0.025	1.4	1.4	1.4	1.3	93	89	70-130	4	20		
1,4-Dichlorobenzene	mg/kg	<0.025	1.4	1.4	1.4	1.4	95	94	70-130	1	20		
Benzene	mg/kg	<0.025	1.4	1.4	1.4	1.3	97	90	70-130	8	20		
Bromodichloromethane	mg/kg	<0.025	1.4	1.4	1.4	1.4	97	93	70-130	4	20		
Bromoform	mg/kg	<0.025	1.4	1.4	1.4	1.4	97	92	65-130	5	20		
Bromomethane	mg/kg	<0.070	1.4	1.4	1.1	0.93	74	63	11-163	15	21		
Carbon tetrachloride	mg/kg	<0.025	1.4	1.4	1.3	1.2	87	81	70-130	8	20		
Chlorobenzene	mg/kg	<0.025	1.4	1.4	1.4	1.4	98	93	70-130	5	20		
Chloroethane	mg/kg	<0.067	1.4	1.4	0.83	0.80	56	54	17-151	3	20		
Chloroform	mg/kg	<0.046	1.4	1.4	1.3	1.3	91	87	70-130	4	20		
Chloromethane	mg/kg	<0.025	1.4	1.4	0.71	0.64	48	43	13-130	10	20		
cis-1,2-Dichloroethene	mg/kg	<0.025	1.4	1.4	1.3	1.2	87	81	70-130	7	20		
cis-1,3-Dichloropropene	mg/kg	<0.025	1.4	1.4	1.3	1.3	90	87	70-130	3	20		
Dibromochloromethane	mg/kg	<0.025	1.4	1.4	1.4	1.4	98	97	70-130	1	20		
Dichlorodifluoromethane	mg/kg	<0.025	1.4	1.4	0.31	0.29	21	20	10-150	7	21		
Ethylbenzene	mg/kg	<0.025	1.4	1.4	1.4	1.3	94	88	70-130	6	20		
Isopropylbenzene (Cumene)	mg/kg	<0.025	1.4	1.4	1.3	1.2	88	84	70-130	5	20		
m&p-Xylene	mg/kg	<0.050	2.9	2.9	2.9	2.7	97	93	70-130	4	20		
Methyl-tert-butyl ether	mg/kg	<0.025	1.4	1.4	1.4	1.4	98	96	70-130	1	20		
Methylene Chloride	mg/kg	<0.025	1.4	1.4	1.3	1.2	89	84	70-131	6	20		
o-Xylene	mg/kg	<0.025	1.4	1.4	1.4	1.3	93	90	70-130	3	20		
Styrene	mg/kg	<0.025	1.4	1.4	1.4	1.4	96	92	70-130	4	20		
Tetrachloroethene	mg/kg	<0.025	1.4	1.4	1.4	1.3	94	86	70-130	8	20		
Toluene	mg/kg	<0.025	1.4	1.4	1.5	1.4	101	95	70-130	6	20		
trans-1,2-Dichloroethene	mg/kg	<0.025	1.4	1.4	1.2	1.1	84	78	70-130	7	20		
trans-1,3-Dichloropropene	mg/kg	<0.025	1.4	1.4	1.5	1.4	99	95	70-130	3	20		
Trichloroethene	mg/kg	<0.025	1.4	1.4	1.4	1.3	96	89	70-130	7	20		
Trichlorofluoromethane	mg/kg	<0.025	1.4	1.4	1.1	0.87	75	59	40-150	24	31		
Vinyl chloride	mg/kg	<0.025	1.4	1.4	0.83	0.76	56	52	26-130	8	20		
4-Bromofluorobenzene (S)	%						92	92	48-138				
Dibromofluoromethane (S)	%						98	94	53-165				
Toluene-d8 (S)	%						100	98	54-163				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER
Pace Project No.: 40131320

QC Batch: MSV/33172 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40131320011

METHOD BLANK: 1326464 Matrix: Solid
Associated Lab Samples: 40131320011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	<0.014	0.050	04/27/16 07:38	
1,1,1-Trichloroethane	mg/kg	<0.014	0.050	04/27/16 07:38	
1,1,2,2-Tetrachloroethane	mg/kg	<0.018	0.050	04/27/16 07:38	
1,1,2-Trichloroethane	mg/kg	<0.020	0.050	04/27/16 07:38	
1,1-Dichloroethane	mg/kg	<0.018	0.050	04/27/16 07:38	
1,1-Dichloroethene	mg/kg	<0.018	0.050	04/27/16 07:38	
1,1-Dichloropropene	mg/kg	<0.014	0.050	04/27/16 07:38	
1,2,3-Trichlorobenzene	mg/kg	<0.017	0.050	04/27/16 07:38	
1,2,3-Trichloropropane	mg/kg	<0.022	0.050	04/27/16 07:38	
1,2,4-Trichlorobenzene	mg/kg	<0.048	0.25	04/27/16 07:38	
1,2,4-Trimethylbenzene	mg/kg	<0.012	0.050	04/27/16 07:38	
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	0.25	04/27/16 07:38	
1,2-Dibromoethane (EDB)	mg/kg	<0.015	0.050	04/27/16 07:38	
1,2-Dichlorobenzene	mg/kg	<0.016	0.050	04/27/16 07:38	
1,2-Dichloroethane	mg/kg	<0.015	0.050	04/27/16 07:38	
1,2-Dichloropropane	mg/kg	<0.017	0.050	04/27/16 07:38	
1,3,5-Trimethylbenzene	mg/kg	<0.014	0.050	04/27/16 07:38	
1,3-Dichlorobenzene	mg/kg	<0.013	0.050	04/27/16 07:38	
1,3-Dichloropropane	mg/kg	<0.012	0.050	04/27/16 07:38	
1,4-Dichlorobenzene	mg/kg	<0.016	0.050	04/27/16 07:38	
2,2-Dichloropropane	mg/kg	<0.013	0.050	04/27/16 07:38	
2-Chlorotoluene	mg/kg	<0.016	0.050	04/27/16 07:38	
4-Chlorotoluene	mg/kg	<0.013	0.050	04/27/16 07:38	
Benzene	mg/kg	<0.0092	0.020	04/27/16 07:38	
Bromobenzene	mg/kg	<0.021	0.050	04/27/16 07:38	
Bromochloromethane	mg/kg	<0.021	0.050	04/27/16 07:38	
Bromodichloromethane	mg/kg	<0.0098	0.050	04/27/16 07:38	
Bromoform	mg/kg	<0.020	0.050	04/27/16 07:38	
Bromomethane	mg/kg	<0.070	0.25	04/27/16 07:38	
Carbon tetrachloride	mg/kg	<0.012	0.050	04/27/16 07:38	
Chlorobenzene	mg/kg	<0.015	0.050	04/27/16 07:38	
Chloroethane	mg/kg	<0.067	0.25	04/27/16 07:38	
Chloroform	mg/kg	<0.046	0.25	04/27/16 07:38	
Chloromethane	mg/kg	<0.020	0.050	04/27/16 07:38	
cis-1,2-Dichloroethene	mg/kg	<0.017	0.050	04/27/16 07:38	
cis-1,3-Dichloropropene	mg/kg	<0.017	0.050	04/27/16 07:38	
Dibromochloromethane	mg/kg	<0.018	0.050	04/27/16 07:38	
Dibromomethane	mg/kg	<0.019	0.050	04/27/16 07:38	
Dichlorodifluoromethane	mg/kg	<0.012	0.050	04/27/16 07:38	
Diisopropyl ether	mg/kg	<0.018	0.050	04/27/16 07:38	
Ethylbenzene	mg/kg	<0.012	0.050	04/27/16 07:38	

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER
Pace Project No.: 40131320

METHOD BLANK: 1326464 Matrix: Solid
Associated Lab Samples: 40131320011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	mg/kg	<0.024	0.050	04/27/16 07:38	
Isopropylbenzene (Cumene)	mg/kg	<0.013	0.050	04/27/16 07:38	
m&p-Xylene	mg/kg	<0.034	0.10	04/27/16 07:38	
Methyl-tert-butyl ether	mg/kg	<0.013	0.050	04/27/16 07:38	
Methylene Chloride	mg/kg	<0.016	0.050	04/27/16 07:38	
n-Butylbenzene	mg/kg	<0.011	0.050	04/27/16 07:38	
n-Propylbenzene	mg/kg	<0.012	0.050	04/27/16 07:38	
Naphthalene	mg/kg	<0.040	0.25	04/27/16 07:38	
o-Xylene	mg/kg	<0.014	0.050	04/27/16 07:38	
p-Isopropyltoluene	mg/kg	<0.012	0.050	04/27/16 07:38	
sec-Butylbenzene	mg/kg	<0.012	0.050	04/27/16 07:38	
Styrene	mg/kg	<0.0090	0.050	04/27/16 07:38	
tert-Butylbenzene	mg/kg	<0.0095	0.050	04/27/16 07:38	
Tetrachloroethene	mg/kg	<0.013	0.050	04/27/16 07:38	
Toluene	mg/kg	<0.011	0.050	04/27/16 07:38	
trans-1,2-Dichloroethene	mg/kg	<0.016	0.050	04/27/16 07:38	
trans-1,3-Dichloropropene	mg/kg	<0.014	0.050	04/27/16 07:38	
Trichloroethene	mg/kg	<0.024	0.050	04/27/16 07:38	
Trichlorofluoromethane	mg/kg	<0.025	0.050	04/27/16 07:38	
Vinyl chloride	mg/kg	<0.021	0.050	04/27/16 07:38	
4-Bromofluorobenzene (S)	%	88	48-138	04/27/16 07:38	
Dibromofluoromethane (S)	%	103	53-165	04/27/16 07:38	
Toluene-d8 (S)	%	102	54-163	04/27/16 07:38	

LABORATORY CONTROL SAMPLE: 1326465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	mg/kg	2.5	2.5	99	70-130	
1,1,2,2-Tetrachloroethane	mg/kg	2.5	2.6	105	70-130	
1,1,2-Trichloroethane	mg/kg	2.5	2.6	103	70-130	
1,1-Dichloroethane	mg/kg	2.5	2.4	97	70-133	
1,1-Dichloroethene	mg/kg	2.5	2.3	90	70-130	
1,2,4-Trichlorobenzene	mg/kg	2.5	2.5	99	70-130	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	2.5	98	50-150	
1,2-Dibromoethane (EDB)	mg/kg	2.5	2.6	104	70-130	
1,2-Dichlorobenzene	mg/kg	2.5	2.4	96	70-130	
1,2-Dichloroethane	mg/kg	2.5	2.6	104	70-138	
1,2-Dichloropropane	mg/kg	2.5	2.6	104	70-130	
1,3-Dichlorobenzene	mg/kg	2.5	2.4	97	70-130	
1,4-Dichlorobenzene	mg/kg	2.5	2.5	100	70-130	
Benzene	mg/kg	2.5	2.5	101	70-130	
Bromodichloromethane	mg/kg	2.5	2.6	105	70-130	
Bromoform	mg/kg	2.5	2.3	93	68-130	
Bromomethane	mg/kg	2.5	2.2	86	25-163	

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

LABORATORY CONTROL SAMPLE: 1326465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	mg/kg	2.5	2.5	101	70-130	
Chlorobenzene	mg/kg	2.5	2.5	101	70-130	
Chloroethane	mg/kg	2.5	2.4	95	34-151	
Chloroform	mg/kg	2.5	2.4	97	70-130	
Chloromethane	mg/kg	2.5	1.8	70	52-130	
cis-1,2-Dichloroethene	mg/kg	2.5	2.3	94	70-130	
cis-1,3-Dichloropropene	mg/kg	2.5	2.4	97	70-130	
Dibromochloromethane	mg/kg	2.5	2.7	108	70-130	
Dichlorodifluoromethane	mg/kg	2.5	1.3	51	27-150	
Ethylbenzene	mg/kg	2.5	2.7	106	70-130	
Isopropylbenzene (Cumene)	mg/kg	2.5	2.5	98	70-130	
m&p-Xylene	mg/kg	5	5.4	107	70-130	
Methyl-tert-butyl ether	mg/kg	2.5	2.5	99	70-130	
Methylene Chloride	mg/kg	2.5	2.5	101	70-131	
o-Xylene	mg/kg	2.5	2.6	102	70-130	
Styrene	mg/kg	2.5	2.5	99	70-130	
Tetrachloroethene	mg/kg	2.5	2.5	101	70-130	
Toluene	mg/kg	2.5	2.6	104	70-130	
trans-1,2-Dichloroethene	mg/kg	2.5	2.2	88	70-130	
trans-1,3-Dichloropropene	mg/kg	2.5	2.7	107	70-130	
Trichloroethene	mg/kg	2.5	2.6	106	70-130	
Trichlorofluoromethane	mg/kg	2.5	2.4	96	50-150	
Vinyl chloride	mg/kg	2.5	1.9	78	57-130	
4-Bromofluorobenzene (S)	%			99	48-138	
Dibromofluoromethane (S)	%			99	53-165	
Toluene-d8 (S)	%			103	54-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326466 1326467

Parameter	Units	1326466		1326467		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40131320011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	mg/kg	<0.025	1.6	1.6	1.4	1.4	88	86	70-130	2	20	
1,1,2,2-Tetrachloroethane	mg/kg	<0.025	1.6	1.6	1.6	1.6	96	98	70-130	3	20	
1,1,2-Trichloroethane	mg/kg	<0.025	1.6	1.6	1.6	1.6	96	98	70-130	1	20	
1,1-Dichloroethane	mg/kg	<0.025	1.6	1.6	1.4	1.4	84	87	64-133	4	20	
1,1-Dichloroethene	mg/kg	<0.025	1.6	1.6	1.3	1.2	77	73	56-130	6	24	
1,2,4-Trichlorobenzene	mg/kg	<0.048	1.6	1.6	1.7	1.5	101	92	70-130	9	20	
1,2-Dibromo-3-chloropropane	mg/kg	<0.091	1.6	1.6	1.6	1.5	96	89	50-150	8	20	
1,2-Dibromoethane (EDB)	mg/kg	<0.025	1.6	1.6	1.7	1.7	102	102	70-130	1	20	
1,2-Dichlorobenzene	mg/kg	<0.025	1.6	1.6	1.6	1.5	96	92	70-130	5	20	
1,2-Dichloroethane	mg/kg	<0.025	1.6	1.6	1.7	1.6	100	95	70-138	5	20	
1,2-Dichloropropane	mg/kg	<0.025	1.6	1.6	1.6	1.6	98	95	70-130	3	20	
1,3-Dichlorobenzene	mg/kg	<0.025	1.6	1.6	1.6	1.5	95	90	70-130	5	20	
1,4-Dichlorobenzene	mg/kg	<0.025	1.6	1.6	1.6	1.6	98	94	70-130	4	20	

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Parameter	Units	1326466		1326467		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40131320011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Benzene	mg/kg	<0.025	1.6	1.6	1.6	1.5	95	92	70-130	3	20		
Bromodichloromethane	mg/kg	<0.025	1.6	1.6	1.6	1.6	99	99	70-130	1	20		
Bromoform	mg/kg	<0.025	1.6	1.6	1.6	1.6	96	98	65-130	2	20		
Bromomethane	mg/kg	<0.070	1.6	1.6	1.2	1.1	75	68	11-163	10	21		
Carbon tetrachloride	mg/kg	<0.025	1.6	1.6	1.5	1.4	91	87	70-130	4	20		
Chlorobenzene	mg/kg	<0.025	1.6	1.6	1.6	1.6	96	95	70-130	1	20		
Chloroethane	mg/kg	<0.067	1.6	1.6	0.95	0.90	57	55	17-151	5	20		
Chloroform	mg/kg	<0.046	1.6	1.6	1.6	1.5	95	90	70-130	5	20		
Chloromethane	mg/kg	<0.025	1.6	1.6	0.77	0.74	47	45	13-130	3	20		
cis-1,2-Dichloroethene	mg/kg	<0.025	1.6	1.6	1.4	1.4	87	85	70-130	3	20		
cis-1,3-Dichloropropene	mg/kg	<0.025	1.6	1.6	1.5	1.5	91	92	70-130	1	20		
Dibromochloromethane	mg/kg	<0.025	1.6	1.6	1.7	1.7	102	101	70-130	1	20		
Dichlorodifluoromethane	mg/kg	<0.025	1.6	1.6	0.37	0.34	22	20	10-150	9	21		
Ethylbenzene	mg/kg	<0.025	1.6	1.6	1.5	1.5	94	93	70-130	1	20		
Isopropylbenzene (Cumene)	mg/kg	<0.025	1.6	1.6	1.5	1.4	89	88	70-130	1	20		
m&p-Xylene	mg/kg	<0.050	3.3	3.3	3.2	3.2	98	97	70-130	1	20		
Methyl-tert-butyl ether	mg/kg	<0.025	1.6	1.6	1.6	1.6	98	95	70-130	2	20		
Methylene Chloride	mg/kg	<0.025	1.6	1.6	1.5	1.4	93	88	70-131	6	20		
o-Xylene	mg/kg	<0.025	1.6	1.6	1.6	1.6	95	95	70-130	1	20		
Styrene	mg/kg	<0.025	1.6	1.6	1.6	1.6	95	95	70-130	0	20		
Tetrachloroethene	mg/kg	<0.025	1.6	1.6	1.6	1.6	95	96	70-130	1	20		
Toluene	mg/kg	<0.025	1.6	1.6	1.6	1.6	99	99	70-130	0	20		
trans-1,2-Dichloroethene	mg/kg	<0.025	1.6	1.6	1.3	1.3	82	80	70-130	2	20		
trans-1,3-Dichloropropene	mg/kg	<0.025	1.6	1.6	1.6	1.6	99	98	70-130	1	20		
Trichloroethene	mg/kg	<0.025	1.6	1.6	1.6	1.6	96	94	70-130	2	20		
Trichlorofluoromethane	mg/kg	<0.025	1.6	1.6	1.3	1.3	77	77	40-150	0	31		
Vinyl chloride	mg/kg	<0.025	1.6	1.6	0.91	0.89	55	54	26-130	3	20		
4-Bromofluorobenzene (S)	%						91	90	48-138				
Dibromofluoromethane (S)	%						96	87	53-165				
Toluene-d8 (S)	%						95	93	54-163				

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER
Pace Project No.: 40131320

QC Batch: MSV/33267 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40131320012

METHOD BLANK: 1329077 Matrix: Water
Associated Lab Samples: 40131320012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	05/03/16 15:14	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	05/03/16 15:14	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	05/03/16 15:14	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	05/03/16 15:14	
1,1-Dichloroethane	ug/L	<0.24	1.0	05/03/16 15:14	
1,1-Dichloroethene	ug/L	<0.41	1.0	05/03/16 15:14	
1,1-Dichloropropene	ug/L	<0.44	1.0	05/03/16 15:14	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	05/03/16 15:14	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	05/03/16 15:14	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	05/03/16 15:14	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	05/03/16 15:14	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	05/03/16 15:14	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	05/03/16 15:14	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	05/03/16 15:14	
1,2-Dichloroethane	ug/L	<0.17	1.0	05/03/16 15:14	
1,2-Dichloropropane	ug/L	<0.23	1.0	05/03/16 15:14	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	05/03/16 15:14	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	05/03/16 15:14	
1,3-Dichloropropane	ug/L	<0.50	1.0	05/03/16 15:14	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	05/03/16 15:14	
2,2-Dichloropropane	ug/L	<0.48	1.0	05/03/16 15:14	
2-Chlorotoluene	ug/L	<0.50	1.0	05/03/16 15:14	
4-Chlorotoluene	ug/L	<0.21	1.0	05/03/16 15:14	
Benzene	ug/L	<0.50	1.0	05/03/16 15:14	
Bromobenzene	ug/L	<0.23	1.0	05/03/16 15:14	
Bromochloromethane	ug/L	<0.34	1.0	05/03/16 15:14	
Bromodichloromethane	ug/L	<0.50	1.0	05/03/16 15:14	
Bromoform	ug/L	<0.50	1.0	05/03/16 15:14	
Bromomethane	ug/L	<2.4	5.0	05/03/16 15:14	
Carbon tetrachloride	ug/L	<0.50	1.0	05/03/16 15:14	
Chlorobenzene	ug/L	<0.50	1.0	05/03/16 15:14	
Chloroethane	ug/L	<0.37	1.0	05/03/16 15:14	
Chloroform	ug/L	<2.5	5.0	05/03/16 15:14	
Chloromethane	ug/L	<0.50	1.0	05/03/16 15:14	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	05/03/16 15:14	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	05/03/16 15:14	
Dibromochloromethane	ug/L	<0.50	1.0	05/03/16 15:14	
Dibromomethane	ug/L	<0.43	1.0	05/03/16 15:14	
Dichlorodifluoromethane	ug/L	<0.22	1.0	05/03/16 15:14	
Diisopropyl ether	ug/L	<0.50	1.0	05/03/16 15:14	
Ethylbenzene	ug/L	<0.50	1.0	05/03/16 15:14	

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER
Pace Project No.: 40131320

METHOD BLANK: 1329077 Matrix: Water
Associated Lab Samples: 40131320012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	05/03/16 15:14	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	05/03/16 15:14	
m&p-Xylene	ug/L	<1.0	2.0	05/03/16 15:14	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	05/03/16 15:14	
Methylene Chloride	ug/L	<0.23	1.0	05/03/16 15:14	
n-Butylbenzene	ug/L	<0.50	1.0	05/03/16 15:14	
n-Propylbenzene	ug/L	<0.50	1.0	05/03/16 15:14	
Naphthalene	ug/L	<2.5	5.0	05/03/16 15:14	
o-Xylene	ug/L	<0.50	1.0	05/03/16 15:14	
p-Isopropyltoluene	ug/L	<0.50	1.0	05/03/16 15:14	
sec-Butylbenzene	ug/L	<2.2	5.0	05/03/16 15:14	
Styrene	ug/L	<0.50	1.0	05/03/16 15:14	
tert-Butylbenzene	ug/L	<0.18	1.0	05/03/16 15:14	
Tetrachloroethene	ug/L	<0.50	1.0	05/03/16 15:14	
Toluene	ug/L	<0.50	1.0	05/03/16 15:14	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	05/03/16 15:14	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	05/03/16 15:14	
Trichloroethene	ug/L	<0.33	1.0	05/03/16 15:14	
Trichlorofluoromethane	ug/L	<0.18	1.0	05/03/16 15:14	
Vinyl chloride	ug/L	<0.18	1.0	05/03/16 15:14	
4-Bromofluorobenzene (S)	%	85	70-130	05/03/16 15:14	
Dibromofluoromethane (S)	%	113	70-130	05/03/16 15:14	
Toluene-d8 (S)	%	96	70-130	05/03/16 15:14	

LABORATORY CONTROL SAMPLE: 1329078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.6	101	70-131	
1,1,1,2-Tetrachloroethane	ug/L	50	54.1	108	67-130	
1,1,2-Trichloroethane	ug/L	50	56.1	112	70-130	
1,1-Dichloroethane	ug/L	50	50.1	100	70-133	
1,1-Dichloroethene	ug/L	50	48.8	98	70-130	
1,2,4-Trichlorobenzene	ug/L	50	41.6	83	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.3	89	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	70-130	
1,2-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,2-Dichloroethane	ug/L	50	51.3	103	70-130	
1,2-Dichloropropane	ug/L	50	57.9	116	70-130	
1,3-Dichlorobenzene	ug/L	50	48.6	97	70-130	
1,4-Dichlorobenzene	ug/L	50	51.8	104	70-130	
Benzene	ug/L	50	51.1	102	60-135	
Bromodichloromethane	ug/L	50	57.2	114	70-130	
Bromoform	ug/L	50	49.4	99	70-130	
Bromomethane	ug/L	50	37.9	76	33-130	

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

LABORATORY CONTROL SAMPLE: 1329078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	53.4	107	70-138	
Chlorobenzene	ug/L	50	52.5	105	70-130	
Chloroethane	ug/L	50	55.6	111	51-130	
Chloroform	ug/L	50	54.2	108	70-130	
Chloromethane	ug/L	50	47.6	95	25-132	
cis-1,2-Dichloroethene	ug/L	50	45.2	90	69-130	
cis-1,3-Dichloropropene	ug/L	50	47.7	95	70-130	
Dibromochloromethane	ug/L	50	49.0	98	70-130	
Dichlorodifluoromethane	ug/L	50	30.5	61	23-130	
Ethylbenzene	ug/L	50	52.2	104	70-136	
Isopropylbenzene (Cumene)	ug/L	50	52.5	105	70-140	
m&p-Xylene	ug/L	100	109	109	70-138	
Methyl-tert-butyl ether	ug/L	50	41.7	83	66-138	
Methylene Chloride	ug/L	50	50.7	101	70-130	
o-Xylene	ug/L	50	51.4	103	70-134	
Styrene	ug/L	50	56.4	113	70-133	
Tetrachloroethene	ug/L	50	52.4	105	70-138	
Toluene	ug/L	50	53.1	106	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.3	97	70-131	
trans-1,3-Dichloropropene	ug/L	50	41.7	83	69-130	
Trichloroethene	ug/L	50	55.4	111	70-130	
Trichlorofluoromethane	ug/L	50	53.7	107	50-150	
Vinyl chloride	ug/L	50	52.2	104	49-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			109	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER
Pace Project No.: 40131320

QC Batch: OEXT/30247 Analysis Method: EPA 8082
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40131320001, 40131320002, 40131320003, 40131320004, 40131320005, 40131320006, 40131320007, 40131320008, 40131320009, 40131320010, 40131320011

METHOD BLANK: 1326024 Matrix: Solid
Associated Lab Samples: 40131320001, 40131320002, 40131320003, 40131320004, 40131320005, 40131320006, 40131320007, 40131320008, 40131320009, 40131320010, 40131320011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	<0.025	0.050	04/27/16 14:55	
PCB-1221 (Aroclor 1221)	mg/kg	<0.025	0.050	04/27/16 14:55	
PCB-1232 (Aroclor 1232)	mg/kg	<0.025	0.050	04/27/16 14:55	
PCB-1242 (Aroclor 1242)	mg/kg	<0.025	0.050	04/27/16 14:55	
PCB-1248 (Aroclor 1248)	mg/kg	<0.025	0.050	04/27/16 14:55	
PCB-1254 (Aroclor 1254)	mg/kg	<0.025	0.050	04/27/16 14:55	
PCB-1260 (Aroclor 1260)	mg/kg	<0.025	0.050	04/27/16 14:55	
Decachlorobiphenyl (S)	%	92	48-130	04/27/16 14:55	
Tetrachloro-m-xylene (S)	%	87	63-130	04/27/16 14:55	

LABORATORY CONTROL SAMPLE: 1326025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg		<0.025			
PCB-1221 (Aroclor 1221)	mg/kg		<0.025			
PCB-1232 (Aroclor 1232)	mg/kg		<0.025			
PCB-1242 (Aroclor 1242)	mg/kg		<0.025			
PCB-1248 (Aroclor 1248)	mg/kg		<0.025			
PCB-1254 (Aroclor 1254)	mg/kg		<0.025			
PCB-1260 (Aroclor 1260)	mg/kg	.5	0.49	99	55-130	
Decachlorobiphenyl (S)	%			96	48-130	
Tetrachloro-m-xylene (S)	%			89	63-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326026 1326027

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40131320011 Result	Spike Conc.	Spike Conc.	Result						
PCB-1016 (Aroclor 1016)	mg/kg	<0.033			<0.033	<0.033					20
PCB-1221 (Aroclor 1221)	mg/kg	<0.033			<0.033	<0.033					20
PCB-1232 (Aroclor 1232)	mg/kg	<0.033			<0.033	<0.033					20
PCB-1242 (Aroclor 1242)	mg/kg	<0.033			<0.033	<0.033					20
PCB-1248 (Aroclor 1248)	mg/kg	<0.033			<0.033	<0.033					20
PCB-1254 (Aroclor 1254)	mg/kg	<0.033			<0.033	<0.033					20
PCB-1260 (Aroclor 1260)	mg/kg	<0.033	.66	.66	0.61	0.61	92	92	40-130	0	20
Decachlorobiphenyl (S)	%						85	85	48-130		
Tetrachloro-m-xylene (S)	%						82	85	63-130		

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER
Pace Project No.: 40131320

QC Batch: OEXT/30256 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 40131320012

METHOD BLANK: 1326215 Matrix: Water
Associated Lab Samples: 40131320012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	<0.25	0.50	04/28/16 14:56	
PCB-1221 (Aroclor 1221)	ug/L	<0.25	0.50	04/28/16 14:56	
PCB-1232 (Aroclor 1232)	ug/L	<0.25	0.50	04/28/16 14:56	
PCB-1242 (Aroclor 1242)	ug/L	<0.25	0.50	04/28/16 14:56	
PCB-1248 (Aroclor 1248)	ug/L	<0.25	0.50	04/28/16 14:56	
PCB-1254 (Aroclor 1254)	ug/L	<0.25	0.50	04/28/16 14:56	
PCB-1260 (Aroclor 1260)	ug/L	<0.25	0.50	04/28/16 14:56	
Decachlorobiphenyl (S)	%	69	36-140	04/28/16 14:56	1q
Tetrachloro-m-xylene (S)	%	70	39-151	04/28/16 14:56	

LABORATORY CONTROL SAMPLE: 1326216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	5	4.4	88	61-130	
PCB-1221 (Aroclor 1221)	ug/L		<0.25			
PCB-1232 (Aroclor 1232)	ug/L		<0.25			
PCB-1242 (Aroclor 1242)	ug/L		<0.25			
PCB-1248 (Aroclor 1248)	ug/L		<0.25			
PCB-1254 (Aroclor 1254)	ug/L		<0.25			
PCB-1260 (Aroclor 1260)	ug/L	5	4.2	84	61-130	
Decachlorobiphenyl (S)	%			74	36-140	
Tetrachloro-m-xylene (S)	%			75	39-151	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326217 1326218

Parameter	Units	40131158003 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
PCB-1016 (Aroclor 1016)	ug/L	ND	5.4	5.1	5.1	4.4	94	87	54-130	15	50	
PCB-1221 (Aroclor 1221)	ug/L	ND			<0.27	<0.25					50	
PCB-1232 (Aroclor 1232)	ug/L	ND			<0.27	<0.25					50	
PCB-1242 (Aroclor 1242)	ug/L	ND			<0.27	<0.25					50	
PCB-1248 (Aroclor 1248)	ug/L	ND			<0.27	<0.25					50	
PCB-1254 (Aroclor 1254)	ug/L	ND			<0.27	<0.25					50	
PCB-1260 (Aroclor 1260)	ug/L	ND	5.4	5.1	5.0	3.8	94	75	54-130	29	50	
Decachlorobiphenyl (S)	%						94	65	36-140			1q
Tetrachloro-m-xylene (S)	%						86	81	39-151			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

QC Batch: OEXT/30305 Analysis Method: EPA 8270 by SIM
 QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
 Associated Lab Samples: 40131320001, 40131320002, 40131320003, 40131320004, 40131320005, 40131320006, 40131320007, 40131320008, 40131320009, 40131320010

METHOD BLANK: 1329211 Matrix: Solid
 Associated Lab Samples: 40131320001, 40131320002, 40131320003, 40131320004, 40131320005, 40131320006, 40131320007, 40131320008, 40131320009, 40131320010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	<0.0083	0.017	05/03/16 15:51	
2-Methylnaphthalene	mg/kg	<0.0083	0.017	05/03/16 15:51	
Acenaphthene	mg/kg	<0.0083	0.017	05/03/16 15:51	
Acenaphthylene	mg/kg	<0.0075	0.017	05/03/16 15:51	
Anthracene	mg/kg	<0.0086	0.017	05/03/16 15:51	
Benzo(a)anthracene	mg/kg	<0.0058	0.017	05/03/16 15:51	
Benzo(a)pyrene	mg/kg	<0.0060	0.017	05/03/16 15:51	
Benzo(b)fluoranthene	mg/kg	<0.0083	0.017	05/03/16 15:51	
Benzo(g,h,i)perylene	mg/kg	<0.0063	0.017	05/03/16 15:51	
Benzo(k)fluoranthene	mg/kg	<0.0092	0.017	05/03/16 15:51	
Chrysene	mg/kg	<0.0077	0.017	05/03/16 15:51	
Dibenz(a,h)anthracene	mg/kg	<0.0061	0.017	05/03/16 15:51	
Fluoranthene	mg/kg	<0.0083	0.017	05/03/16 15:51	
Fluorene	mg/kg	<0.0083	0.017	05/03/16 15:51	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0063	0.017	05/03/16 15:51	
Naphthalene	mg/kg	<0.0083	0.017	05/03/16 15:51	
Phenanthrene	mg/kg	<0.0083	0.017	05/03/16 15:51	
Pyrene	mg/kg	<0.0083	0.017	05/03/16 15:51	
2-Fluorobiphenyl (S)	%	66	26-130	05/03/16 15:51	
Terphenyl-d14 (S)	%	76	10-130	05/03/16 15:51	

LABORATORY CONTROL SAMPLE: 1329212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.34	102	48-130	
2-Methylnaphthalene	mg/kg	.33	0.33	100	49-130	
Acenaphthene	mg/kg	.33	0.24	72	54-130	
Acenaphthylene	mg/kg	.33	0.24	72	56-130	
Anthracene	mg/kg	.33	0.30	90	70-130	
Benzo(a)anthracene	mg/kg	.33	0.25	76	58-130	
Benzo(a)pyrene	mg/kg	.33	0.29	88	58-130	
Benzo(b)fluoranthene	mg/kg	.33	0.25	74	50-130	
Benzo(g,h,i)perylene	mg/kg	.33	0.31	93	39-130	
Benzo(k)fluoranthene	mg/kg	.33	0.28	84	57-130	
Chrysene	mg/kg	.33	0.29	86	64-130	
Dibenz(a,h)anthracene	mg/kg	.33	0.30	89	44-130	
Fluoranthene	mg/kg	.33	0.29	87	59-130	
Fluorene	mg/kg	.33	0.24	72	56-130	

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

LABORATORY CONTROL SAMPLE: 1329212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.29	88	45-130	
Naphthalene	mg/kg	.33	0.31	93	46-130	
Phenanthrene	mg/kg	.33	0.28	83	56-130	
Pyrene	mg/kg	.33	0.25	74	59-130	
2-Fluorobiphenyl (S)	%			73	26-130	
Terphenyl-d14 (S)	%			82	10-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329213 1329214

Parameter	Units	40131320002		1329213		1329214		% Rec	% Rec	% Rec Limits	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
1-Methylnaphthalene	mg/kg	<0.0098	.39	.39	0.37	0.36	95	92	41-130	3	24	
2-Methylnaphthalene	mg/kg	<0.0098	.39	.39	0.37	0.36	94	91	42-130	4	25	
Acenaphthene	mg/kg	<0.0098	.39	.39	0.28	0.27	71	70	49-130	1	27	
Acenaphthylene	mg/kg	<0.0088	.39	.39	0.28	0.27	70	70	52-130	1	26	
Anthracene	mg/kg	<0.010	.39	.39	0.35	0.32	89	81	61-130	9	29	
Benzo(a)anthracene	mg/kg	<0.0068	.39	.39	0.29	0.28	73	71	45-130	4	28	
Benzo(a)pyrene	mg/kg	<0.0070	.39	.39	0.33	0.32	83	82	39-130	1	34	
Benzo(b)fluoranthene	mg/kg	<0.0098	.39	.39	0.29	0.30	73	77	30-130	5	43	
Benzo(g,h,i)perylene	mg/kg	<0.0075	.39	.39	0.34	0.34	87	86	24-130	2	34	
Benzo(k)fluoranthene	mg/kg	<0.011	.39	.39	0.32	0.30	83	77	41-130	6	32	
Chrysene	mg/kg	<0.0091	.39	.39	0.33	0.31	83	78	46-130	6	37	
Dibenz(a,h)anthracene	mg/kg	<0.0072	.39	.39	0.33	0.32	84	83	33-130	2	34	
Fluoranthene	mg/kg	<0.0098	.39	.39	0.34	0.31	86	78	41-130	10	25	
Fluorene	mg/kg	<0.0098	.39	.39	0.28	0.27	71	69	49-130	4	30	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0075	.39	.39	0.33	0.32	83	82	30-130	1	28	
Naphthalene	mg/kg	<0.0098	.39	.39	0.33	0.34	84	86	39-130	3	26	
Phenanthrene	mg/kg	<0.0098	.39	.39	0.32	0.29	82	75	47-130	9	26	
Pyrene	mg/kg	<0.0098	.39	.39	0.28	0.27	72	69	37-130	4	30	
2-Fluorobiphenyl (S)	%						62	64	26-130			
Terphenyl-d14 (S)	%						73	70	10-130			

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER
Pace Project No.: 40131320

QC Batch: OEXT/30328 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40131320011

METHOD BLANK: 1331006 Matrix: Solid
Associated Lab Samples: 40131320011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	<0.0083	0.017	05/06/16 10:40	
2-Methylnaphthalene	mg/kg	<0.0083	0.017	05/06/16 10:40	
Acenaphthene	mg/kg	<0.0083	0.017	05/06/16 10:40	
Acenaphthylene	mg/kg	<0.0075	0.017	05/06/16 10:40	
Anthracene	mg/kg	<0.0086	0.017	05/06/16 10:40	
Benzo(a)anthracene	mg/kg	<0.0058	0.017	05/06/16 10:40	
Benzo(a)pyrene	mg/kg	<0.0060	0.017	05/06/16 10:40	
Benzo(b)fluoranthene	mg/kg	<0.0083	0.017	05/06/16 10:40	
Benzo(g,h,i)perylene	mg/kg	<0.0063	0.017	05/06/16 10:40	
Benzo(k)fluoranthene	mg/kg	<0.0092	0.017	05/06/16 10:40	
Chrysene	mg/kg	<0.0077	0.017	05/06/16 10:40	
Dibenz(a,h)anthracene	mg/kg	<0.0061	0.017	05/06/16 10:40	
Fluoranthene	mg/kg	<0.0083	0.017	05/06/16 10:40	
Fluorene	mg/kg	<0.0083	0.017	05/06/16 10:40	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0063	0.017	05/06/16 10:40	
Naphthalene	mg/kg	<0.0083	0.017	05/06/16 10:40	
Phenanthrene	mg/kg	<0.0083	0.017	05/06/16 10:40	
Pyrene	mg/kg	<0.0083	0.017	05/06/16 10:40	
2-Fluorobiphenyl (S)	%	72	26-130	05/06/16 10:40	
Terphenyl-d14 (S)	%	78	10-130	05/06/16 10:40	

LABORATORY CONTROL SAMPLE: 1331007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	.33	0.31	92	48-130	
2-Methylnaphthalene	mg/kg	.33	0.30	91	49-130	
Acenaphthene	mg/kg	.33	0.28	84	54-130	
Acenaphthylene	mg/kg	.33	0.28	83	56-130	
Anthracene	mg/kg	.33	0.35	105	70-130	
Benzo(a)anthracene	mg/kg	.33	0.28	83	58-130	
Benzo(a)pyrene	mg/kg	.33	0.34	102	58-130	
Benzo(b)fluoranthene	mg/kg	.33	0.30	89	50-130	
Benzo(g,h,i)perylene	mg/kg	.33	0.35	106	39-130	
Benzo(k)fluoranthene	mg/kg	.33	0.34	101	57-130	
Chrysene	mg/kg	.33	0.33	99	64-130	
Dibenz(a,h)anthracene	mg/kg	.33	0.34	102	44-130	
Fluoranthene	mg/kg	.33	0.33	100	59-130	
Fluorene	mg/kg	.33	0.28	84	56-130	
Indeno(1,2,3-cd)pyrene	mg/kg	.33	0.34	101	45-130	
Naphthalene	mg/kg	.33	0.30	91	46-130	

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

LABORATORY CONTROL SAMPLE: 1331007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	.33	0.31	94	56-130	
Pyrene	mg/kg	.33	0.28	84	59-130	
2-Fluorobiphenyl (S)	%			80	26-130	
Terphenyl-d14 (S)	%			91	10-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1331008 1331009

Parameter	Units	40131644007		1331008		1331009		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec					
1-Methylnaphthalene	mg/kg	<18.9 ug/kg	.37	.37	0.31	0.32	82	83	41-130	1	24	
2-Methylnaphthalene	mg/kg	<18.9 ug/kg	.37	.37	0.31	0.31	80	81	42-130	1	25	
Acenaphthene	mg/kg	<18.9 ug/kg	.37	.37	0.27	0.27	70	73	49-130	3	27	
Acenaphthylene	mg/kg	<18.9 ug/kg	.37	.37	0.27	0.28	72	75	52-130	4	26	
Anthracene	mg/kg	<18.9 ug/kg	.37	.37	0.33	0.35	88	92	61-130	5	29	
Benzo(a)anthracene	mg/kg	<18.9 ug/kg	.37	.37	0.27	0.28	70	73	45-130	4	28	
Benzo(a)pyrene	mg/kg	<18.9 ug/kg	.37	.37	0.31	0.31	80	82	39-130	3	34	
Benzo(b)fluoranthene	mg/kg	<18.9 ug/kg	.37	.37	0.26	0.27	69	72	30-130	4	43	
Benzo(g,h,i)perylene	mg/kg	<18.9 ug/kg	.37	.37	0.32	0.33	82	85	24-130	4	34	
Benzo(k)fluoranthene	mg/kg	<18.9 ug/kg	.37	.37	0.32	0.32	85	85	41-130	0	32	
Chrysene	mg/kg	<18.9 ug/kg	.37	.37	0.32	0.32	82	84	46-130	2	37	
Dibenz(a,h)anthracene	mg/kg	<18.9 ug/kg	.37	.37	0.30	0.31	80	82	33-130	2	34	
Fluoranthene	mg/kg	<18.9 ug/kg	.37	.37	0.32	0.33	85	88	41-130	3	25	
Fluorene	mg/kg	<18.9 ug/kg	.37	.37	0.27	0.28	72	74	49-130	3	30	
Indeno(1,2,3-cd)pyrene	mg/kg	<18.9 ug/kg	.37	.37	0.30	0.31	79	81	30-130	2	28	
Naphthalene	mg/kg	<18.9 ug/kg	.37	.37	0.30	0.30	79	80	39-130	0	26	
Phenanthrene	mg/kg	<18.9 ug/kg	.37	.37	0.31	0.32	80	82	47-130	2	26	
Pyrene	mg/kg	<18.9 ug/kg	.37	.37	0.27	0.28	71	73	37-130	3	30	
2-Fluorobiphenyl (S)	%						67	62	26-130			
Terphenyl-d14 (S)	%						75	71	10-130			

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER
Pace Project No.: 40131320

QC Batch: OEXT/30275 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40131320012

METHOD BLANK: 1327576 Matrix: Water
Associated Lab Samples: 40131320012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0031	0.050	04/29/16 14:37	
2-Methylnaphthalene	ug/L	<0.0028	0.050	04/29/16 14:37	
Acenaphthene	ug/L	<0.0050	0.050	04/29/16 14:37	
Acenaphthylene	ug/L	<0.0049	0.050	04/29/16 14:37	
Anthracene	ug/L	<0.0040	0.050	04/29/16 14:37	
Benzo(a)anthracene	ug/L	<0.0051	0.050	04/29/16 14:37	
Benzo(a)pyrene	ug/L	<0.0044	0.050	04/29/16 14:37	
Benzo(b)fluoranthene	ug/L	<0.0053	0.050	04/29/16 14:37	
Benzo(g,h,i)perylene	ug/L	<0.0035	0.050	04/29/16 14:37	
Benzo(k)fluoranthene	ug/L	<0.0056	0.050	04/29/16 14:37	
Chrysene	ug/L	<0.0042	0.050	04/29/16 14:37	
Dibenz(a,h)anthracene	ug/L	<0.0056	0.050	04/29/16 14:37	
Fluoranthene	ug/L	0.011J	0.050	04/29/16 14:37	
Fluorene	ug/L	<0.0040	0.050	04/29/16 14:37	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0036	0.050	04/29/16 14:37	
Naphthalene	ug/L	<0.0045	0.050	04/29/16 14:37	
Phenanthrene	ug/L	<0.0077	0.050	04/29/16 14:37	
Pyrene	ug/L	0.018J	0.050	04/29/16 14:37	
2-Fluorobiphenyl (S)	%	55	25-130	04/29/16 14:37	
Terphenyl-d14 (S)	%	95	13-158	04/29/16 14:37	

LABORATORY CONTROL SAMPLE: 1327577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.1	54	35-130	
2-Methylnaphthalene	ug/L	2	1.1	54	36-130	
Acenaphthene	ug/L	2	1.1	55	41-130	
Acenaphthylene	ug/L	2	1.0	52	41-130	
Anthracene	ug/L	2	1.4	69	38-130	
Benzo(a)anthracene	ug/L	2	1.5	74	49-130	
Benzo(a)pyrene	ug/L	2	1.9	96	69-143	
Benzo(b)fluoranthene	ug/L	2	2.1	103	63-146	
Benzo(g,h,i)perylene	ug/L	2	1.6	78	10-145	
Benzo(k)fluoranthene	ug/L	2	2.0	101	64-152	
Chrysene	ug/L	2	1.9	95	64-156	
Dibenz(a,h)anthracene	ug/L	2	1.4	70	10-143	
Fluoranthene	ug/L	2	1.5	75	54-134	
Fluorene	ug/L	2	0.96	48	44-130	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.9	94	39-140	
Naphthalene	ug/L	2	1.1	56	35-130	

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

LABORATORY CONTROL SAMPLE: 1327577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.6	79	51-130	
Pyrene	ug/L	2	1.6	82	61-140	
2-Fluorobiphenyl (S)	%			55	25-130	
Terphenyl-d14 (S)	%			92	13-158	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1327578 1327579

Parameter	Units	40131259005		MSD		MSD		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1-Methylnaphthalene	ug/L	0.14	1.9	2.2	1.2	1.3	53	55	16-130	15	30		
2-Methylnaphthalene	ug/L	<0.0028	1.9	2.2	1.0	1.1	52	53	33-130	13	30		
Acenaphthene	ug/L	<0.0050	1.9	2.2	0.97	1.1	50	52	29-130	17	27		
Acenaphthylene	ug/L	<0.0049	1.9	2.2	0.91	1.1	47	49	33-130	16	27		
Anthracene	ug/L	<0.0040	1.9	2.2	1.1	1.3	58	60	26-130	16	31		
Benzo(a)anthracene	ug/L	<0.0051	1.9	2.2	1.3	1.4	67	64	27-130	9	36		
Benzo(a)pyrene	ug/L	<0.0044	1.9	2.2	1.6	1.7	84	78	16-151	5	44		
Benzo(b)fluoranthene	ug/L	<0.0053	1.9	2.2	1.7	1.8	88	85	30-142	9	41		
Benzo(g,h,i)perylene	ug/L	<0.0035	1.9	2.2	1.1	1.2	60	56	10-130	6	50		
Benzo(k)fluoranthene	ug/L	<0.0056	1.9	2.2	1.6	1.7	85	78	24-152	4	41		
Chrysene	ug/L	<0.0042	1.9	2.2	1.7	1.8	88	84	40-152	8	33		
Dibenz(a,h)anthracene	ug/L	<0.0056	1.9	2.2	1.2	1.3	62	60	10-130	9	50		
Fluoranthene	ug/L	0.010J	1.9	2.2	1.3	1.3	69	60	39-140	1	30		
Fluorene	ug/L	<0.0040	1.9	2.2	0.98	1.2	51	54	35-130	19	26		
Indeno(1,2,3-cd)pyrene	ug/L	<0.0036	1.9	2.2	1.5	1.5	76	70	10-130	4	50		
Naphthalene	ug/L	0.056	1.9	2.2	1.1	1.2	55	54	29-130	10	31		
Phenanthrene	ug/L	0.0093J	1.9	2.2	1.3	1.6	68	71	48-130	16	25		
Pyrene	ug/L	0.018J	1.9	2.2	1.6	1.5	80	68	42-143	4	25		
2-Fluorobiphenyl (S)	%						48	51	25-130				
Terphenyl-d14 (S)	%						76	66	13-158				

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

QC Batch:	PMST/12694	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	40131320001, 40131320002, 40131320003, 40131320004, 40131320005, 40131320006, 40131320007, 40131320008, 40131320009		

SAMPLE DUPLICATE: 1330888

Parameter	Units	40131317001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.0	7.2	3	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

QC Batch:	PMST/12695	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	40131320010, 40131320011		

SAMPLE DUPLICATE: 1330908

Parameter	Units	40131320010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.2	13.5	2	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSSV/8996

[IP] Benzo(b)fluoranthene and benzo(k)fluoranthene were in the check standard but did not meet the resolution criteria in SW846 Method 8270C. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

Batch: MSSV/9007

[IP] Benzo(b)fluoranthene and benzo(k)fluoranthene were in the check standard but did not meet the resolution criteria in SW846 Method 8270C. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

ANALYTE QUALIFIERS

1q Surrogate recovery was outside the State of South Carolina laboratory control limits of 70-130. Recovery did pass in-house, control charted limits. No sample volume available for re-extract.

B Analyte was detected in the associated method blank.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40131320001	GP-1 / TW-1 (2-4)	EPA 3541	OEXT/30247	EPA 8082	GCSV/14314
40131320002	GP-1 / TW-1 (8-10)	EPA 3541	OEXT/30247	EPA 8082	GCSV/14314
40131320003	GP-2 (2-4)	EPA 3541	OEXT/30247	EPA 8082	GCSV/14314
40131320004	GP-2 (6-8)	EPA 3541	OEXT/30247	EPA 8082	GCSV/14314
40131320005	GP-3 (2-4)	EPA 3541	OEXT/30247	EPA 8082	GCSV/14314
40131320006	GP-3 (6-8)	EPA 3541	OEXT/30247	EPA 8082	GCSV/14314
40131320007	GP-4 (2-4)	EPA 3541	OEXT/30247	EPA 8082	GCSV/14314
40131320008	GP-4 (8-10)	EPA 3541	OEXT/30247	EPA 8082	GCSV/14314
40131320009	GP-5 (2-4)	EPA 3541	OEXT/30247	EPA 8082	GCSV/14314
40131320010	GP-5 (10-12)	EPA 3541	OEXT/30247	EPA 8082	GCSV/14314
40131320011	SS-1 (0.5-1.5)	EPA 3541	OEXT/30247	EPA 8082	GCSV/14314
40131320012	TW-1 / GP-1	EPA 3510	OEXT/30256	EPA 8082	GCSV/14325
40131320001	GP-1 / TW-1 (2-4)	EPA 3546	OEXT/30305	EPA 8270 by SIM	MSSV/8996
40131320002	GP-1 / TW-1 (8-10)	EPA 3546	OEXT/30305	EPA 8270 by SIM	MSSV/8996
40131320003	GP-2 (2-4)	EPA 3546	OEXT/30305	EPA 8270 by SIM	MSSV/8996
40131320004	GP-2 (6-8)	EPA 3546	OEXT/30305	EPA 8270 by SIM	MSSV/8996
40131320005	GP-3 (2-4)	EPA 3546	OEXT/30305	EPA 8270 by SIM	MSSV/8996
40131320006	GP-3 (6-8)	EPA 3546	OEXT/30305	EPA 8270 by SIM	MSSV/8996
40131320007	GP-4 (2-4)	EPA 3546	OEXT/30305	EPA 8270 by SIM	MSSV/8996
40131320008	GP-4 (8-10)	EPA 3546	OEXT/30305	EPA 8270 by SIM	MSSV/8996
40131320009	GP-5 (2-4)	EPA 3546	OEXT/30305	EPA 8270 by SIM	MSSV/8996
40131320010	GP-5 (10-12)	EPA 3546	OEXT/30305	EPA 8270 by SIM	MSSV/8996
40131320011	SS-1 (0.5-1.5)	EPA 3546	OEXT/30328	EPA 8270 by SIM	MSSV/9007
40131320012	TW-1 / GP-1	EPA 3510	OEXT/30275	EPA 8270 by HVI	MSSV/8983
40131320001	GP-1 / TW-1 (2-4)	EPA 5035/5030B	MSV/33162	EPA 8260	MSV/33163
40131320002	GP-1 / TW-1 (8-10)	EPA 5035/5030B	MSV/33162	EPA 8260	MSV/33163
40131320003	GP-2 (2-4)	EPA 5035/5030B	MSV/33162	EPA 8260	MSV/33163
40131320004	GP-2 (6-8)	EPA 5035/5030B	MSV/33162	EPA 8260	MSV/33163
40131320005	GP-3 (2-4)	EPA 5035/5030B	MSV/33162	EPA 8260	MSV/33163
40131320006	GP-3 (6-8)	EPA 5035/5030B	MSV/33162	EPA 8260	MSV/33163
40131320007	GP-4 (2-4)	EPA 5035/5030B	MSV/33162	EPA 8260	MSV/33163
40131320008	GP-4 (8-10)	EPA 5035/5030B	MSV/33162	EPA 8260	MSV/33163
40131320009	GP-5 (2-4)	EPA 5035/5030B	MSV/33162	EPA 8260	MSV/33163
40131320010	GP-5 (10-12)	EPA 5035/5030B	MSV/33162	EPA 8260	MSV/33163
40131320011	SS-1 (0.5-1.5)	EPA 5035/5030B	MSV/33172	EPA 8260	MSV/33183
40131320012	TW-1 / GP-1	EPA 8260	MSV/33267		
40131320001	GP-1 / TW-1 (2-4)	ASTM D2974-87	PMST/12694		
40131320002	GP-1 / TW-1 (8-10)	ASTM D2974-87	PMST/12694		
40131320003	GP-2 (2-4)	ASTM D2974-87	PMST/12694		
40131320004	GP-2 (6-8)	ASTM D2974-87	PMST/12694		
40131320005	GP-3 (2-4)	ASTM D2974-87	PMST/12694		
40131320006	GP-3 (6-8)	ASTM D2974-87	PMST/12694		
40131320007	GP-4 (2-4)	ASTM D2974-87	PMST/12694		
40131320008	GP-4 (8-10)	ASTM D2974-87	PMST/12694		
40131320009	GP-5 (2-4)	ASTM D2974-87	PMST/12694		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2404006 BROWN DEER

Pace Project No.: 40131320

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40131320010	GP-5 (10-12)	ASTM D2974-87	PMST/12695		
40131320011	SS-1 (0.5-1.5)	ASTM D2974-87	PMST/12695		

REPORT OF LABORATORY ANALYSIS

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40131320

CHAIN OF CUSTODY

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

(Please Print Clearly)

Company Name: KEY Engineering
 Branch/Location: Milwaukee
 Project Contact: Jason Knuchko
 Phone: 414 224 5300
 Project Number: 2404002
 Project Name: Braender
 Project State: WI
 Sampled By (Print): Chelsea Ames
 Sampled By (Sign): [Signature]

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Y/N	F	A	A	B						
Analyses Requested	VOC	PAH	PCB	VOC						
	X	X	X							
	X	X	X							
	X	X	X							
	X	X	X							
	X	X	X							
	X	X	X							
	X	X	X							
	X	X	X							
	X	X	X							
	X	X	X							
	X	X	X	X						

Quote #: _____
 Mail To Contact: Jason Knuchko
 Mail To Company: KEY Engineering
 Mail To Address: 735 N. Water St. Suite 316 Milwaukee WI 53204
 Invoice To Contact: Cherie Haupt
 Invoice To Company: same
 Invoice To Address: _____
 Invoice To Phone: _____

Regulatory Program: _____

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION			MATRIX
		DATE	TIME		
001	GP-1/TW-1(2-4)	4/22	9:30	S	
002	GP-1/TW-1(8-10)		9:45	S	
003	GP-2(2-4)		9:50	S	
004	GP-2(6-8)		10:00	S	
005	GP-3(2-4)		10:30	S	
006	GP-3(6-8)		11:00	S	
007	GP-4(2-4)		11:25	S	
008	GP-4(8-10)		11:45	S	
009	GP-5(2-4)		12:10	S	
010	GP-5(10-12)		12:30	S	
011	SS-1(0.5-1.5)		12:40	S	
012	TW-1/GP-1		1:30	GW	

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

1-40ml vial 1-40ml vial 2-40ml vial

2-1 Lagt 3-40ml vial 2-100ml lagt

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

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

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

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

Relinquished By: [Signature] Date/Time: 4/22/16 1500

Relinquished By: Mary Fannin Date/Time: 4/25/16 12:00

Relinquished By: Mary Fannin Date/Time: 4-25-16 1454

Relinquished By: _____ Date/Time: _____

Received By: Mary Fannin Date/Time: 4/25/16 10:02

Received By: Mary Fannin Date/Time: 4-25-16 1200

Received By: Mary Fannin Date/Time: 4/25/16 1454

Received By: _____ Date/Time: _____

PACE Project No.
40131320

Receipt Temp = 201 °C

Sample Receipt pH
 OK / Adjusted

Cooler Custody Seal
 Present / Not Present
 Intact / Not Intact

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Sample Condition Upon Receipt

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

Project #:

WO#: 40131320



Client Name: Key Eng

Courier: Fed Ex UPS Client Pace Other:

Tracking #:

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

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

Cooler Temperature: Uncorr: /Corr: RO Biological Tissue is Frozen: yes

Temp Blank Present: yes no

Person examining contents:
Date: 4/25/16
Initials: CWS

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

Comments:

Table with 15 rows of inspection items and checkboxes. Includes items like Chain of Custody Present, Samples Arrived within Hold Time, Short Hold Time Analysis, Rush Turn Around Time Requested, Sufficient Volume, Containers Intact, Sample Labels match COC, and Headspace in VOA Vials.

Client Notification/ Resolution:

Person Contacted: Date/Time: If checked, see attached form for additional comments

Comments/ Resolution:

005 vial tare weight covered 4/25/16 RZ

Project Manager Review:

[Signature]

Date: 4-25-16