

NAR 09-12-555381

WCRO1b

916 SILVER LAKE DRIVE
BOX 340
PORTAGE, WI 53901

 GENERAL
ENGINEERING COMPANY
Consulting Engineers Since 1912

608-742-2169
608-742-2592 FAX
gec@generalengineering.net
www.generalengineering.net

June 3, 2010

Mr. David Rozeboom
Wisconsin Department of Natural Resources
473 Griffith Avenue
Wisconsin Rapids, WI 54494

RE: Villa Oasis
525 S. Marquette Road
Prairie du Chein, Wisconsin

Dear Mr. Rozeboom

Attached with this letter is the Underground Storage Tank Closure Assessment paperwork for four underground storage tanks (USTs) located at the above referenced site. These USTs were removed under the direction of the WDNR bid process.

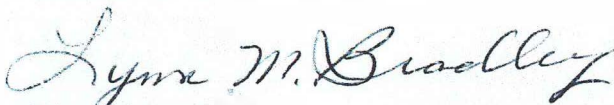
Several samples were collected beneath the tanks and analyzed for the presence of gasoline range organics (GRO) and/or diesel range organics (DRO), Petroleum Volatile Organic Compounds (PVOC) and Naphthalene. Soil samples collected beneath the 12,000 gallon unleaded gasoline UST exhibited low levels (286 ug/kg) of total Xylenes. The level was well below the WDNR NR 720 established generic residual contaminant levels (RCL). In addition, low levels of DRO were detected in samples collected beneath the diesel underground storage tanks. The DRO concentrations range from 4.3 mg/kg to 14.1 mg/kg. These levels are well below the WDNR NR 720 RCL for DRO.

It is the recommendation of General Engineering Company that this property be "closed" under NR 708.09, indicating no further action is necessary.

If you need any further information, or have any questions, please feel free to contact me at 608-742-2169.

Respectfully Submitted,

GENERAL ENGINEERING COMPANY



Lynn M. Bradley
Environmental Project Manager



Wastewater Collection & Treatment • Water Storage & Distribution • Mapping • Hydrology Studies • Structural Engineering • Inspection Services
Storm Water Collection Systems • Municipal Building Design • Urban Design & Planning • Street & Bridge Design • Community Funding & Grants

**Complete One Form for
Each System Service Event**

The information you provide may be used
for secondary purposes
[Privacy Law, s.15.04 (1) (m), Wis. Stats.]

**TANK SYSTEM SERVICE AND CLOSURE
ASSESSMENT REPORT**

CHECK ONE:
☒ **UNDERGROUND**
☐ **ABOVEGROUND**

FOR PORTIONS OF THE FORM THAT
DO NOT APPLY, CHECK THE 'NA' BOX

RETURN COMPLETED CHECKLIST TO:

Wisconsin Department of Commerce
ERS Division
Bureau of Petroleum Products and
Tanks
P.O. Box 7837
Madison, WI 53707-7837

Part A - To be completed by contractor performing repair or closure *

A. TYPE OF SERVICE ☒ CLOSURE ☐ REPAIR/UPGRADE ☐ CHANGE-IN-SERVICE

Indicate portion of system being serviced if a repair, upgrade or change-in-service is being performed

☒ Remote fill ☐ Tank ☐ Piping ☐ Transition/containment sump ☐ Spill bucket ☒ Dispenser

B. IDENTIFICATION (Please Print)

1. Facility Name Villa Oasis		2. Owner Name S.H. Oil Co	
Facility Street Address (not P.O. Box) 525 S Marquette Rd		3. Contact Name Job Title	
Municipality		Mailing Address P.O. Box 333	
☐ City ☐ Village ☐ Town of:		Post Office State Zip Code	
Zip Code 53801	County Crawford	County Crawford	Telephone No. (include area code) ()
4. Primary Service Contractor Section A above Schaper Fuel & Petro LLC		Service Contractor Street Address 441455 Marquette Rd	
Service Contractor Telephone No. (include area code) (608) 742-4686		Service Contractor City, State, Zip Code Monroe WI 53901	

C. TANK SYSTEM DETAIL (Complete for all service activities)

a	b	c	d	e	f	g	h
Tank ID #	Type of Closure ¹	Tank Material of Construction	Piping Material of Construction	Tank Capacity (gallons)	Contents ²	Release - System Integrity Compromised (e.g. holes, cracks, loose connection, etc)?	If "Yes" to "g", Then Specify Source & Cause of Release ³
271263	P	FG	FG	8,000	UG	☐ Y ☒ N	Source of Release ³ Cause of Release ⁴
271264	P	FG	FG	11,000	UG	☐ Y ☒ N	
271265	P	FG	FG	12,000	DL	☐ Y ☒ N	
271266	P	FG	FG	8,000	DL	☐ Y ☒ N	
						☐ Y ☐ N	
						☐ Y ☐ N	

1. Indicate type of closure: P = Permanent, TOS = Temporarily Out-of-Service, CIP = Closure In-Place

2. Indicate type of product: DL = Diesel, LG = Leaded Gasoline, UG = Unleaded Gasoline, FO = Fuel Oil, GH = Gasohol, AF = Aviation Fuel, K = Kerosene, PX = Premix, WO = Waste/Used Motor Oil, FCHZW = Flammable/Combustible Hazardous Waste, OC = Other Chemical (indicate the chemical name(s))

CAS number(s):

3. Source of release: T = tank, P = piping, D = dispenser, STP = submersible turbine pump, DP = delivery problem, O = other

4. Cause of release: S = spill, O = overfill, POMD = physical or mechanical damage, C = corrosion, IP = installation problem, O = other

5. Has release been reported to the Department of Natural Resources? ☐ Yes ☐ No ☐ Release not evident at this time

D. CLOSURES (Check applicable box at right in response to all statements in section D)

Written notification was provided to the local agent 15 days in advance of closure date. ☒ Y ☐ N

All local permits were obtained before beginning closure. ☐ Y ☐ N ☐ NA

☐ UST Form ERS-7437 or ☐ AST Form ERS-8731 filed by owner with the Dept. of Commerce indicating closure. ☒ Y ☐ N ☐ NA

NOTE: TANK INVENTORY FORM ERS-7437 or ERS-8731 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH CLOSURE or CHANGE-IN-SERVICE CHECKLIST

D.1 ☐ TEMPORARILY OUT-OF-SERVICE

1. Product removed.

a. Product lines drained into tank (or other container) and liquid removed, and

b. All product removed to bottom of suction line, OR

c. All product removed to within 1" of bottom.

2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped.

3. All product lines at the islands or pumps located elsewhere are removed and capped, OR

Remover Verified	Inspector Verified	NA
☐ Y ☐ N	☐ Y ☐ N	☐
☐ Y ☐ N	☐ Y ☐ N	☐
☐ Y ☐ N	☐ Y ☐ N	☐
☐ Y ☐ N	☐ Y ☐ N	☐
☐ Y ☐ N	☐ Y ☐ N	☐

4. Dispensers/pumps left in place but locked and power disconnected.	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
5. Vent lines left open.	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
6. Inventory form filed indicating temporarily out-of-service (TOS) closure.	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N

D.2. ☒ CLOSURE BY REMOVAL OR IN-PLACE

1. General Requirements

a. Product from piping drained into tank (or other container).	☒ Y ☐ N	☒ Y ☐ N	☐ Y ☐ N
b. Piping disconnected from tank and removed.	☒ Y ☐ N	☒ Y ☐ N	☐ Y ☐ N
c. All liquid and residue removed from tank using explosion-proof pumps or hand pumps.	☒ Y ☐ N	☒ Y ☐ N	☐ Y ☐ N
d. All pump motors and suction hoses bonded to tank or otherwise grounded.	☒ Y ☐ N	☒ Y ☐ N	☐ Y ☐ N
e. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.	☒ Y ☐ N	☒ Y ☐ N	☐ Y ☐ N
f. Vent lines left connected until tanks purged.	☒ Y ☐ N	☒ Y ☐ N	☐ Y ☐ N
g. Tank openings temporarily plugged so vapors exit through vent.	☒ Y ☐ N	☒ Y ☐ N	☐ Y ☐ N
h. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section E.	☒ Y ☐ N	☒ Y ☐ N	☐ Y ☐ N

2. Specific Closure-by-Removal Requirements

a. Tank removed from excavation after PURGING/INERTING ; placed on level ground and blocked to prevent movement.	☒ Y ☐ N	☒ Y ☐ N	☐ Y ☐ N
b. Tank cleaned before being removed from site.	☒ Y ☐ N	☒ Y ☐ N	☐ Y ☐ N
c. Tank labeled in 2" high letters after removal but before being moved from site.	☒ Y ☐ N	☒ Y ☐ N	☐ Y ☐ N
NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE.			
d. Tank vent hole (1/8" in uppermost part of tank) installed prior to moving the tank from site.	☐ Y ☐ N	☐ Y ☐ N	☒ Y ☐ N
e. Site security is provided while the excavation is open.	☒ Y ☐ N	☒ Y ☐ N	☐ Y ☐ N

3. Specific Closure-In-Place Requirements

NOTE: CLOSURES IN-PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF COMMERCE OR LOCAL AGENT.

a. Tank properly cleaned to remove all sludge and residue.	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
b. Solid inert material (sand, cyclone boiler slag, or pea gravel recommended) introduced and tank filled.	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
c. Vent line disconnected or removed.	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N
d. Inventory form filed by owner with the Department of Commerce indicating closure in-place.	☐ Y ☐ N	☐ Y ☐ N	☐ Y ☐ N

E. REPAIR, UPGRADE OR CHANGE-IN-SERVICE

Written notification was provided to the local agent 15 days in advance of service date.

☐ Y ☐ N ☐ NA

All local permits were obtained before beginning service.

☐ Y ☐ N ☐ NA

Form ERS-7437 or ☐ ERS-8731 filed by owner with the Department of Commerce indicating change-in-service.

☐ Y ☐ N ☐ NA

F. METHOD OF VAPOR FREEING OF TANK

☒ Displacement of vapors by eductor or diffused air blower.

Eductor driven by compressed air; bonded and drop tube left in place; vapors discharged minimum of 12 feet above ground.

Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.

☐ Inert gas using dry ice or liquid carbon dioxide.

☐ Inert gas using CO₂ or N₂ **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. LEL METERS MAY NOT FUNCTION ACCURATELY. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT.**

Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent.

Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.

☒ Readings of 10% or less of the lower flammable range (LEL) or 0% oxygen obtained before removing tank from ground.

☒ Tank atmosphere monitored for flammable or combustible vapor levels prior to and during cleaning and cutting.

☒ Calibrate combustible gas indicator and/or oxygen meter prior to use. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank.

G. REMOVER/CLEANER INFORMATION

Richard S. S. S. Richard S. S. S. CE 4000 5/18/2010
Remover/Cleaner Name (print) Remover/Cleaner Signature Certification No. Date Signed

I attest that the procedures and information which I have provided as the tank closure contractor are correct and comply with Comm 10.

Company expected to perform soil contamination assessment

H. INSPECTOR INFORMATION

BILL D. SHAWNE BILL D. SHAWNE 352105 NA
Inspector Name (print) Inspector Signature Inspector Cert # LPO Agency #:

1208 608.355.3854 5/18/2010
FDID # For Location Where Inspection Performed Inspector Telephone Number Date Signed

Part B – To be completed by environmental professional

Submit original Part B to the WDNR along with a copy of Part A

I. TANK-SYSTEM SITE ASSESSMENT (TSSA)

Site Name: Village Oasis

Address: 525 S. Marquette Rd Prairie Du Chemin, WI

Note: Site name and address must match with Part A Section 1.

To determine if a TSSA is required, see Comm 10 and section II part B of ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.

If a TSSA is required, then follow the procedures detailed in ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.

1. Site Information

a. Has there been a previously documented release at this site? ☒ Y ☐ N

If yes, provide the Commerce # _____, or DNR BRR's # 03-12-000802.

b. Number of active tanks¹ at facility prior to completion of current services USTs 4 ASTs _____.

(NOTE 1: Do not include previously closed systems or system components.)

c. Excavation/trench dimensions (in feet). (Photos must be provided.)

EXCAVATION/TRENCH #	LENGTH	WIDTH	DEPTH
<u>1</u>	<u>30' WDS</u>	<u>22'</u>	<u>12' 6"</u>
<u>2</u>	<u>30' WDS</u>	<u>22'</u>	<u>12' 6"</u>

2. Visual Excavation/Trench Inspection (Photos must be provided for "Yes" responses, except item b.)

Do any of the following conditions exist in or about the excavation(s)?

a. Stained soils: ☐ Y ☒ N b. Petroleum odor: ☐ Y ☒ N c. Water in excavation/trench: ☐ Y ☒ N

d. Free product in the excavation/trench: ☐ Y ☒ N e. Sheen or free product on water: ☐ Y ☒ N

3. Geology/Hydrogeology

a. Depth to groundwater _____ feet b. Indicate type of geology² S

(Note 2: Use these symbols individually or in combination as appropriate: C = Clay, SLT = Silt, S = Sand, Gr = Gravel)

4. Receptors

a. Water supply well(s) within 250 feet of the facility? ☐ Y ☐ N If yes, specify _____

b. Surface water(s) within 1000 feet of the facility? ☐ Y ☒ N If yes, specify _____

5. Sampling

a. Follow the procedures detailed in ASSESSMENT AND REPORTING OF SUSPECTED AND OBVIOUS RELEASES FROM UNDERGROUND AND ABOVEGROUND STORAGE TANK SYSTEMS.

b. Complete Tables 1 and 2 as appropriate. (Attach chain-of-custody and laboratory analytical reports.)

c. Attach a detailed map of site features and sample locations.

J. NOTE RELEVANT OBSERVATIONS, SPECIFIC PROBLEMS OR CONCERNS BELOW

Please See Attached Letter requesting
"No Further Action"

Additional Sample Results on Attached Sheet

TABLE 1 SOIL FIELD SCREENING & GRO/DRO LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	Sample Location & Soil/Geologic Description	Sample Collection Method				Depth Below Tank/Piping (feet)	Field Screening Result (ppm)	GRO (mg/kg)	DRO (mg/kg)
		Grab	Shelby Tube	Direct Push	Split Spoon				
1	12,000 A	☒	☐	☐	☐	2'	0	<2.9	
2	12,000 B	☒	☐	☐	☐	2'	0	<2.6	
3	12,000 C	☒	☐	☐	☐	2'	0	<2.8	
4	10,000 A	☒	☐	☐	☐	2'	0	<2.6	
5	10,000 B	☒	☐	☐	☐	2'	0	<2.6	
6	10,000 C	☒	☐	☐	☐	2'	0	<2.6	
7	8,000 A	☒	☐	☐	☐	2'	0	<2.7	
8	8,000 B	☒	☐	☐	☐	2'	0	<2.6	
9	8,000 C	☒	☐	☐	☐	2'	0	<2.6	
10	D-1 Gas	☒	☐	☐	☐	18"	0	<2.7	
11	B-2 Gas	☒	☐	☐	☐	18"	0	<2.6	
12	R-1 Gas	☒	☐	☐	☐	18"	0	<3.2	
13	D-2 Diesel Gas	☒	☐	☐	☐	18"	0	<2.6	<0.79
		☐	☐	☐	☐				

TABLE 2 SOIL LABORATORY ANALYTICAL RESULTS-FOR PETROLEUM PRODUCTS

Sample ID #	BENZENE	TOLUENE	ETHYLBENZENE	MTBE	TRIMETHYL - BENZENES (TOTAL)	XYLENES (TOTAL)	NAPHTHALENE
	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
1	<25	<25	<25	<25	<50	<50/28.6	<25
2	<25	<25	<25	<25	<50	<92.8	<25
3	<25	<25	<25	<25	<50	<75	<25
4	<25	<25	<25	<25	<50	<75	<25
5	<25	<25	<25	<25	<50	<75	<25
6	<25	<25	<25	<25	<50	<75	<25
7	<25	<25	<25	<25	<50	<75	<25
8	<25	<25	<25	<25	<50	<75	<25
9	<25	<25	<25	<25	<50	<75	<25
10	<25	<25	<25	<25	<50	<75	<25
11	<25	<25	<25	<25	<50	<75	<25
12	<25	<25	<25	<25	<50	<75	<25
13	<25	<25	<25	<25	<50	<75	<25

K. TANK-SYSTEM SITE ASSESSMENT INFORMATION

☐ As a tank-system site assessor certified under Wis. Admin. Code section Comm 5.83, it is my opinion that there is no indication of a release of a regulated substance to the environment.

☒ Sampling at the site indicates there has been a release to the environment. Pursuant to Wis. Admin. Code section Comm 10.585 (2) (a) and Wis. Stats. section 292.11 (2) (a), the owner or operator or contractor performing work under chapter Comm 10 shall immediately report any release of a regulated substance to the Wisconsin Department of Natural Resources. Failure to do so may result in forfeitures of a minimum of \$10 and a maximum of \$5000 for each violation under Wis. Stats. section 101.09 (5). Each day of continued violation and each tank are treated as separate offenses.

Richard Schaper
Tank-System Site Assessor Name (print)

[Signature]
Tank-System Site Assessor Signature

929000
Certification Number #

(608) 742-4686
Tank-System Site Assessor Telephone Number

5-30-10
Date Signed

Schaper Excav. & Petroleum
Company Name

525 S. MARQUETTE ROAD

[illegible]

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

4032292

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: <u>2</u> of <u>2</u>	
Company: GENERAL ENGINEERING COMPANY		Report To: LYNN BRADLEY		Attention: LYNN BRADLEY		REGULATORY AGENCY ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER _____ SITE ☐ GA ☐ IL ☐ IN ☐ MI ☐ C LOCATION ☐ OH ☐ SC ☐ WI ☐ OTHER _____ Filtered (Y/N) _____ Requested Analysis _____ Pace Project Number Lab I.D. _____	
Address: 916 SILVER LAKE DRIVE		Copy To:		Company Name: GENERAL ENGINEERING COMPANY			
PORTAGE, WI 53810				Address: 916 SILVER LAKE DRIVE, PORTAGE, WI 53801			
Email To: lbradley@generalengineering.net		Purchase Order No.:		Pace Quote Reference:			
Phone: 608-742-2169 Fax: 608-742-2592		Project Name: Villa Oasis		Pace Project Manager:			
Requested Due Date/TAT:		Project Number: Schaper		Pace Profile #:			

ITEM #	Section D Required Client Information			Valid Matrix Codes MATRIX DEBRIND WATER WATER WASTE WATER PRODUCT SOLUS/O OIL WIFE AIR OTHER TUSRA	CODE DW WT WW P SL OL WIF AIR OTR TUSRA	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives								Requested Analysis	PAC AND ANALYTICAL					Residual Chlorine (Y/N)	Pace Project Number Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	SAMPLE ID (A-Z, 0-9 /, -)	Character per box. MUST BE UNIQUE	Samples IDs					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		PROC	DRD	%SOLID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

Additional Comments:

① Changes made per LS 5-26-10 for

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<i>[Signature]</i> Walton	5/25/10	0855	<i>[Signature]</i> M. Walke	5/25/10	0855	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Lynn Bradley SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): _____									



Sample Condition Upon Receipt

Client Name: General Engineering Co. Project # 4032292

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ 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 Zyploc

Thermometer Used N/A Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None

Cooler Temperature ROI Biological Tissue is Frozen: ☐ yes ☒ no

Temp Blank Present: ☐ yes ☒ no

Temp should be above freezing to 6°C for all sample except Biota.

Biota Samples should be received ≤ 0°C.

Comments:

Person examining contents:

Date: 5-25-10

Initials: KM

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☐ Yes ☒ No ☐ N/A	3. DATES & TIMES MISSING KM 5/25/10
Sampler Name & Signature on COC:	☐ Yes ☒ No ☐ N/A	4. NO SIGNATURE KM 5/25/10
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☒ No ☐ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12. SAMPLE 016 (8,000 Diesel B) on COC but labeled 8,000 Diesel C on sample KM 5/25/10
-Includes date/time/ID/Analysis Matrix:	<u>S</u>	
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐ Yes ☐ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☒ No ☐ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review:

Date: 5-25-10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



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

June 02, 2010

Lynn Bradley
General Engineering
916 Silver Lake Dr
Portage, WI 53901

RE: Project: SCHAPER VILLA OASIS
Pace Project No.: 4032292

Dear Lynn Bradley:

Enclosed are the analytical results for sample(s) received by the laboratory on May 25, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Brian Basten

brian.basten@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 20

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

CERTIFICATIONS

Project: SCHAPER VILLA OASIS
Pace Project No.: 4032292

Green Bay Certification IDs

1241 Bellevue Street Green Bay, WI 54302
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
North Dakota Certification #: R-150
North Carolina Certification #: 503
California Certification #: 09268CA

New York Certification #: 11887
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04168
Kentucky Certification #: 82
Illinois Certification #: 200050
Florida/NELAP Certification #: E87948
New York Certification #: 11888

REPORT OF LABORATORY ANALYSIS

Page 2 of 20

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SAMPLE SUMMARY

Project: SCHAPER VILLA OASIS

Pace Project No.: 4032292

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4032292001	12,000-A	Solid	05/18/10 00:00	05/25/10 08:55
4032292002	12,000-B	Solid	05/18/10 00:00	05/25/10 08:55
4032292003	12,000-C	Solid	05/18/10 00:00	05/25/10 08:55
4032292004	10,000-A	Solid	05/18/10 00:00	05/25/10 08:55
4032292005	10,000-B	Solid	05/18/10 00:00	05/25/10 08:55
4032292006	10,000-C	Solid	05/18/10 00:00	05/25/10 08:55
4032292007	8,000-A	Solid	05/18/10 00:00	05/25/10 08:55
4032292008	8,000-B	Solid	05/18/10 00:00	05/25/10 08:55
4032292009	8,000-C	Solid	05/18/10 00:00	05/25/10 08:55
4032292010	D-1 GAS	Solid	05/18/10 00:00	05/25/10 08:55
4032292011	R-2 GAS	Solid	05/18/10 00:00	05/25/10 08:55
4032292012	R-1 GAS	Solid	05/18/10 00:00	05/25/10 08:55
4032292013	D-2 GAS/DIESEL	Solid	05/18/10 00:00	05/25/10 08:55
4032292014	8,000 DIESEL A	Solid	05/18/10 00:00	05/25/10 08:55
4032292015	8,000 DIESEL B	Solid	05/18/10 00:00	05/25/10 08:55
4032292016	8,000 DIESEL C	Solid	05/18/10 00:00	05/25/10 08:55
4032292017	DIESEL 1	Solid	05/18/10 00:00	05/25/10 08:55
4032292018	DIESEL 2	Solid	05/18/10 00:00	05/25/10 08:55
4032292019	DIESEL 3	Solid	05/18/10 00:00	05/25/10 08:55
4032292020	FIELD BLANK	Solid	05/18/10 00:00	05/25/10 08:55

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SAMPLE ANALYTE COUNT

Project: SCHAPER VILLA OASIS
Pace Project No.: 4032292

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4032292001	12,000-A	WI MOD GRO	PMS	11
		ASTM D2974-87	AME	1
4032292002	12,000-B	WI MOD GRO	PMS	11
		ASTM D2974-87	AME	1
4032292003	12,000-C	WI MOD GRO	PMS	11
		ASTM D2974-87	AME	1
4032292004	10,000-A	WI MOD GRO	PMS	11
		ASTM D2974-87	AME	1
4032292005	10,000-B	WI MOD GRO	PMS	11
		ASTM D2974-87	AME	1
4032292006	10,000-C	WI MOD GRO	PMS	11
		ASTM D2974-87	AME	1
4032292007	8,000-A	WI MOD GRO	PMS	11
		ASTM D2974-87	AME	1
4032292008	8,000-B	WI MOD GRO	PMS	11
		ASTM D2974-87	AME	1
4032292009	8,000-C	WI MOD GRO	PMS	11
		ASTM D2974-87	AME	1
4032292010	D-1 GAS	WI MOD GRO	PMS	11
		ASTM D2974-87	AME	1
4032292011	R-2 GAS	WI MOD GRO	PMS	11
		ASTM D2974-87	AME	1
4032292012	R-1 GAS	WI MOD GRO	PMS	11
		ASTM D2974-87	AME	1
4032292013	D-2 GAS/DIESEL	WI MOD DRO	DAL	1
		WI MOD GRO	PMS	11
		ASTM D2974-87	AME	1
4032292014	8,000 DIESEL A	WI MOD DRO	DAL	1
		WI MOD GRO	PMS	10
		ASTM D2974-87	AME	1
4032292015	8,000 DIESEL B	WI MOD DRO	DAL	1
		WI MOD GRO	PMS	10
		ASTM D2974-87	AME	1
4032292016	8,000 DIESEL C	WI MOD DRO	DAL	1
		WI MOD GRO	PMS	10
		ASTM D2974-87	AME	1
4032292017	DIESEL 1	WI MOD DRO	DAL	1

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SAMPLE ANALYTE COUNT

Project: SCHAPER VILLA OASIS
Pace Project No.: 4032292

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4032292018	DIESEL 2	WI MOD GRO	PMS	10
		ASTM D2974-87	AME	1
		WI MOD DRO	DAL	1
		WI MOD GRO	PMS	10
4032292019	DIESEL 3	ASTM D2974-87	AME	1
		WI MOD DRO	DAL	1
		WI MOD GRO	PMS	10
		ASTM D2974-87	AME	1
4032292020	FIELD BLANK	WI MOD GRO	PMS	10

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ANALYTICAL RESULTS

Project: SCHAPER VILLA OASIS

Pace Project No.: 4032292

Sample: 12,000-A Lab ID: 4032292001 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 11:51	71-43-2	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 11:51	100-41-4	W
Gasoline Range Organics	<2.9 mg/kg		2.9	2.9	1	05/26/10 07:58	05/26/10 11:51		
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 11:51	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 11:51	91-20-3	W
Toluene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 11:51	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 11:51	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 11:51	108-67-8	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	05/26/10 07:58	05/26/10 11:51	179601-23-1	W
o-Xylene	286 ug/kg		70.1	29.2	1	05/26/10 07:58	05/26/10 11:51	95-47-6	
a,a,a-Trifluorotoluene (S)	108 %		80-120		1	05/26/10 07:58	05/26/10 11:51	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	14.4 %		0.10	0.10	1		05/26/10 08:44		

Sample: 12,000-B Lab ID: 4032292002 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 12:16	71-43-2	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 12:16	100-41-4	W
Gasoline Range Organics	<2.6 mg/kg		2.6	2.6	1	05/26/10 07:58	05/26/10 12:16		
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 12:16	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 12:16	91-20-3	W
Toluene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 12:16	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 12:16	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 12:16	108-67-8	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	05/26/10 07:58	05/26/10 12:16	179601-23-1	W
o-Xylene	42.8J ug/kg		63.2	26.3	1	05/26/10 07:58	05/26/10 12:16	95-47-6	
a,a,a-Trifluorotoluene (S)	107 %		80-120		1	05/26/10 07:58	05/26/10 12:16	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	5.0 %		0.10	0.10	1		05/26/10 08:45		



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ANALYTICAL RESULTS

Project: SCHAPER VILLA OASIS

Pace Project No.: 4032292

Sample: 12,000-C Lab ID: 4032292003 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 12:42	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 12:42	100-41-4	W
Gasoline Range Organics	<2.8	mg/kg	2.8	2.8	1	05/26/10 07:58	05/26/10 12:42		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 12:42	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 12:42	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 12:42	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 12:42	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 12:42	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	05/26/10 07:58	05/26/10 12:42	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 12:42	95-47-6	W
a,a,a-Trifluorotoluene (S)	108	%-	80-120		1	05/26/10 07:58	05/26/10 12:42	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	10.6	%	0.10	0.10	1		05/26/10 08:45		

Sample: 10,000-A Lab ID: 4032292004 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:07	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:07	100-41-4	W
Gasoline Range Organics	<2.6	mg/kg	2.6	2.6	1	05/26/10 07:58	05/26/10 13:07		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:07	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:07	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:07	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:07	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:07	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	05/26/10 07:58	05/26/10 13:07	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:07	95-47-6	W
a,a,a-Trifluorotoluene (S)	108	%-	80-120		1	05/26/10 07:58	05/26/10 13:07	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	5.6	%	0.10	0.10	1		05/26/10 08:45		

Date: 06/02/2010 02:58 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SCHAPER VILLA OASIS

Pace Project No.: 4032292

Sample: 10,000-B Lab ID: 4032292005 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:33	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:33	100-41-4	W
Gasoline Range Organics	<2.6	mg/kg	2.6	2.6	1	05/26/10 07:58	05/26/10 13:33		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:33	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:33	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:33	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:33	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:33	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	05/26/10 07:58	05/26/10 13:33	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:33	95-47-6	W
a,a,a-Trifluorotoluene (S)	107	%-	80-120		1	05/26/10 07:58	05/26/10 13:33	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	4.9	%	0.10	0.10	1		05/26/10 08:45		

Sample: 10,000-C Lab ID: 4032292006 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:58	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:58	100-41-4	W
Gasoline Range Organics	<2.6	mg/kg	2.6	2.6	1	05/26/10 07:58	05/26/10 13:58		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:58	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:58	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:58	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:58	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:58	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	05/26/10 07:58	05/26/10 13:58	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 13:58	95-47-6	W
a,a,a-Trifluorotoluene (S)	108	%-	80-120		1	05/26/10 07:58	05/26/10 13:58	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	5.7	%	0.10	0.10	1		05/26/10 08:45		

ANALYTICAL RESULTS

Project: SCHAPER VILLA OASIS

Pace Project No.: 4032292

Sample: 8,000-A Lab ID: 4032292007 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:24	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:24	100-41-4	W
Gasoline Range Organics	<2.7	mg/kg	2.7	2.7	1	05/26/10 07:58	05/26/10 14:24		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:24	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:24	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:24	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:24	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:24	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	05/26/10 07:58	05/26/10 14:24	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:24	95-47-6	W
a,a,a-Trifluorotoluene (S)	107	%-	80-120		1	05/26/10 07:58	05/26/10 14:24	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	6.9	%	0.10	0.10	1		05/26/10 08:45		

Sample: 8,000-B Lab ID: 4032292008 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:49	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:49	100-41-4	W
Gasoline Range Organics	<2.6	mg/kg	2.6	2.6	1	05/26/10 07:58	05/26/10 14:49		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:49	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:49	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:49	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:49	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:49	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	05/26/10 07:58	05/26/10 14:49	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 14:49	95-47-6	W
a,a,a-Trifluorotoluene (S)	108	%-	80-120		1	05/26/10 07:58	05/26/10 14:49	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	5.4	%	0.10	0.10	1		05/26/10 08:45		



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ANALYTICAL RESULTS

Project: SCHAPER VILLA OASIS

Pace Project No.: 4032292

Sample: 8,000-C Lab ID: 4032292009 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:31	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:31	100-41-4	W
Gasoline Range Organics	<2.6	mg/kg	2.6	2.6	1	05/26/10 07:58	05/26/10 16:31		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:31	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:31	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:31	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:31	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:31	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	05/26/10 07:58	05/26/10 16:31	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:31	95-47-6	W
a,a,a-Trifluorotoluene (S)	107	%-	80-120		1	05/26/10 07:58	05/26/10 16:31	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	4.8	%	0.10	0.10	1		05/26/10 08:45		

Sample: D-1 GAS Lab ID: 4032292010 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:57	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:57	100-41-4	W
Gasoline Range Organics	<2.7	mg/kg	2.7	2.7	1	05/26/10 07:58	05/26/10 16:57		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:57	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:57	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:57	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:57	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:57	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	05/26/10 07:58	05/26/10 16:57	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 16:57	95-47-6	W
a,a,a-Trifluorotoluene (S)	107	%-	80-120		1	05/26/10 07:58	05/26/10 16:57	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	5.9	%	0.10	0.10	1		05/26/10 08:45		

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ANALYTICAL RESULTS

Project: SCHAPER VILLA OASIS

Pace Project No.: 4032292

Sample: R-2 GAS Lab ID: 4032292011 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:23	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:23	100-41-4	W
Gasoline Range Organics	<2.6	mg/kg	2.6	2.6	1	05/26/10 07:58	05/26/10 17:23		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:23	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:23	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:23	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:23	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:23	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	05/26/10 07:58	05/26/10 17:23	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:23	95-47-6	W
a,a,a-Trifluorotoluene (S)	108 %-		80-120		1	05/26/10 07:58	05/26/10 17:23	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	4.3	%	0.10	0.10	1		05/26/10 08:45		

Sample: R-1 GAS Lab ID: 4032292012 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:48	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:48	100-41-4	W
Gasoline Range Organics	<3.2	mg/kg	3.2	3.2	1	05/26/10 07:58	05/26/10 17:48		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:48	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:48	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:48	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:48	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:48	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	05/26/10 07:58	05/26/10 17:48	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	05/26/10 07:58	05/26/10 17:48	95-47-6	W
a,a,a-Trifluorotoluene (S)	107 %-		80-120		1	05/26/10 07:58	05/26/10 17:48	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	21.1	%	0.10	0.10	1		05/26/10 08:45		

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ANALYTICAL RESULTS

Project: SCHAPER VILLA OASIS

Pace Project No.: 4032292

Sample: D-2 GAS/DIESEL Lab ID: 4032292013 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	<0.79 mg/kg		1.6	0.79	1	05/26/10 09:38	06/01/10 14:32		
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:14	71-43-2	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:14	100-41-4	W
Gasoline Range Organics	<2.6 mg/kg		2.6	2.6	1	05/26/10 07:58	05/26/10 18:14		
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:14	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:14	91-20-3	W
Toluene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:14	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:14	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:14	108-67-8	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	05/26/10 07:58	05/26/10 18:14	179601-23-1	W
o-Xylene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:14	95-47-6	W
a,a,a-Trifluorotoluene (S)	107 %-		80-120		1	05/26/10 07:58	05/26/10 18:14	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	3.6 %		0.10	0.10	1		05/26/10 08:46		

Sample: 8,000 DIESEL A Lab ID: 4032292014 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	14.1 mg/kg		1.7	0.83	1	05/26/10 09:38	06/01/10 14:41		
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:39	71-43-2	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:39	100-41-4	W
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:39	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:39	91-20-3	W
Toluene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:39	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:39	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:39	108-67-8	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	05/26/10 07:58	05/26/10 18:39	179601-23-1	W
o-Xylene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 18:39	95-47-6	W
a,a,a-Trifluorotoluene (S)	107 %-		80-120		1	05/26/10 07:58	05/26/10 18:39	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	5.3 %		0.10	0.10	1		05/26/10 08:46		

ANALYTICAL RESULTS

Project: SCHAPER VILLA OASIS

Pace Project No.: 4032292

Sample: 8,000 DIESEL B Lab ID: 4032292015 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	9.8 mg/kg		1.7	0.82	1	05/26/10 09:38	06/01/10 14:50		
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 19:05	71-43-2	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 19:05	100-41-4	W
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 19:05	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 19:05	91-20-3	W
Toluene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 19:05	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 19:05	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 19:05	108-67-8	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	05/26/10 07:58	05/26/10 19:05	179601-23-1	W
o-Xylene	<25.0 ug/kg		60.0	25.0	1	05/26/10 07:58	05/26/10 19:05	95-47-6	W
a,a,a-Trifluorotoluene (S)	108 %-		80-120		1	05/26/10 07:58	05/26/10 19:05	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	5.2 %		0.10	0.10	1		05/26/10 08:46		

Sample: 8,000 DIESEL C Lab ID: 4032292016 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	<0.95 mg/kg		1.9	0.95	1	05/26/10 09:38	06/01/10 14:59		
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 10:05	71-43-2	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 10:05	100-41-4	W
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 10:05	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 10:05	91-20-3	W
Toluene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 10:05	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 10:05	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 10:05	108-67-8	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	05/27/10 07:02	05/28/10 10:05	179601-23-1	W
o-Xylene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 10:05	95-47-6	W
a,a,a-Trifluorotoluene (S)	105 %-		80-120		1	05/27/10 07:02	05/28/10 10:05	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	12.8 %		0.10	0.10	1		05/26/10 08:46		



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ANALYTICAL RESULTS

Project: SCHAPER VILLA OASIS

Pace Project No.: 4032292

Sample: DIESEL 1 Lab ID: 4032292017 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	13.1 mg/kg		2.0	1.0	1	05/26/10 09:38	06/01/10 15:08		
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 09:39	71-43-2	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 09:39	100-41-4	W
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 09:39	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 09:39	91-20-3	W
Toluene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 09:39	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 09:39	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 09:39	108-67-8	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	05/27/10 07:02	05/28/10 09:39	179601-23-1	W
o-Xylene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/28/10 09:39	95-47-6	W
a,a,a-Trifluorotoluene (S)	106 %		80-120		1	05/27/10 07:02	05/28/10 09:39	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	20.1 %		0.10	0.10	1		05/26/10 08:46		

Sample: DIESEL 2 Lab ID: 4032292018 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	4.3 mg/kg		1.7	0.82	1	05/26/10 09:38	06/01/10 15:17		
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 21:43	71-43-2	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 21:43	100-41-4	W
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 21:43	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 21:43	91-20-3	W
Toluene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 21:43	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 21:43	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 21:43	108-67-8	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	05/27/10 07:02	05/27/10 21:43	179601-23-1	W
o-Xylene	32.2J ug/kg		62.6	26.1	1	05/27/10 07:02	05/27/10 21:43	95-47-6	
a,a,a-Trifluorotoluene (S)	106 %		80-120		1	05/27/10 07:02	05/27/10 21:43	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	4.1 %		0.10	0.10	1		05/26/10 08:46		

Date: 06/02/2010 02:58 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SCHAPER VILLA OASIS

Pace Project No.: 4032292

Sample: DIESEL 3 Lab ID: 4032292019 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO									
Diesel Range Organics	<0.97 mg/kg		2.0	0.97	1	05/26/10 09:38	06/01/10 15:26		
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:08	71-43-2	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:08	100-41-4	W
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:08	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:08	91-20-3	W
Toluene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:08	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:08	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:08	108-67-8	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	05/27/10 07:02	05/27/10 22:08	179601-23-1	W
o-Xylene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:08	95-47-6	W
a,a,a-Trifluorotoluene (S)	107 %-		80-120		1	05/27/10 07:02	05/27/10 22:08	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	15.7 %		0.10	0.10	1		05/26/10 08:46		

Sample: FIELD BLANK Lab ID: 4032292020 Collected: 05/18/10 00:00 Received: 05/25/10 08:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:34	71-43-2	W
Ethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:34	100-41-4	W
Methyl-tert-butyl ether	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:34	1634-04-4	W
Naphthalene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:34	91-20-3	W
Toluene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:34	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:34	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:34	108-67-8	W
m&p-Xylene	<50.0 ug/kg		120	50.0	1	05/27/10 07:02	05/27/10 22:34	179601-23-1	W
o-Xylene	<25.0 ug/kg		60.0	25.0	1	05/27/10 07:02	05/27/10 22:34	95-47-6	W
a,a,a-Trifluorotoluene (S)	106 %-		80-120		1	05/27/10 07:02	05/27/10 22:34	98-08-8	



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QUALITY CONTROL DATA

Project: SCHAPER VILLA OASIS

Pace Project No.: 4032292

QC Batch: OEXT/7348 Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
Associated Lab Samples: 4032292013, 4032292014, 4032292015, 4032292016, 4032292017, 4032292018, 4032292019

METHOD BLANK: 304745 Matrix: Solid
Associated Lab Samples: 4032292013, 4032292014, 4032292015, 4032292016, 4032292017, 4032292018, 4032292019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<0.99	2.0	06/01/10 12:45	

LABORATORY CONTROL SAMPLE & LCSD: 304746		304747								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	20	14.4	15.0	72	75	70-120	4	20	



QUALITY CONTROL DATA

Project: SCHAPER VILLA OASIS

Pace Project No.: 4032292

QC Batch:	GCV/5102	Analysis Method:	WI MOD GRO
QC Batch Method:	TPH GRO/PVOC WI ext.	Analysis Description:	WIGRO Solid GCV
Associated Lab Samples:	4032292001, 4032292002, 4032292003, 4032292004, 4032292005, 4032292006, 4032292007, 4032292008, 4032292009, 4032292010, 4032292011, 4032292012, 4032292013		

METHOD BLANK:	304959	Matrix:	Solid
Associated Lab Samples:	4032292001, 4032292002, 4032292003, 4032292004, 4032292005, 4032292006, 4032292007, 4032292008, 4032292009, 4032292010, 4032292011, 4032292012, 4032292013, 4032292014, 4032292015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	05/26/10 10:08	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	05/26/10 10:08	
Benzene	ug/kg	<25.0	60.0	05/26/10 10:08	
Ethylbenzene	ug/kg	<25.0	60.0	05/26/10 10:08	
Gasoline Range Organics	mg/kg	<2.5	2.5	05/26/10 10:08	
m&p-Xylene	ug/kg	<50.0	120	05/26/10 10:08	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	05/26/10 10:08	
Naphthalene	ug/kg	<25.0	60.0	05/26/10 10:08	
o-Xylene	ug/kg	<25.0	60.0	05/26/10 10:08	
Toluene	ug/kg	<25.0	60.0	05/26/10 10:08	
a,a,a-Trifluorotoluene (S)	%-	107	80-120	05/26/10 10:08	

LABORATORY CONTROL SAMPLE & LCSD:			304960		304961						
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2,4-Trimethylbenzene	ug/kg	1000	1010	1050	101	105	80-120	4	20		
1,3,5-Trimethylbenzene	ug/kg	1000	1000	1040	100	104	80-120	4	20		
Benzene	ug/kg	1000	936	963	94	96	80-120	3	20		
Ethylbenzene	ug/kg	1000	986	1020	99	102	80-120	3	20		
Gasoline Range Organics	mg/kg	10	8.3	8.7	83	87	80-120	5	20		
m&p-Xylene	ug/kg	2000	1970	2040	99	102	80-120	3	20		
Methyl-tert-butyl ether	ug/kg	1000	894	924	89	92	80-120	3	20		
Naphthalene	ug/kg	1000	981	1040	98	104	80-120	5	20		
o-Xylene	ug/kg	1000	978	1010	98	101	80-120	3	20		
Toluene	ug/kg	1000	969	999	97	100	80-120	3	20		
a,a,a-Trifluorotoluene (S)	%-				106	107	80-120				

QUALITY CONTROL DATA

Project: SCHAPER VILLA OASIS

Pace Project No.: 4032292

QC Batch:	GCV/5106	Analysis Method:	WI MOD GRO
QC Batch Method:	TPH GRO/PVOC WI ext.	Analysis Description:	WIGRO Solid GCV
Associated Lab Samples: 4032292016, 4032292017, 4032292018, 4032292019, 4032292020			

METHOD BLANK: 305740 Matrix: Solid
Associated Lab Samples: 4032292016, 4032292017, 4032292018, 4032292019, 4032292020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	05/27/10 10:14	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	05/27/10 10:14	
Benzene	ug/kg	<25.0	60.0	05/27/10 10:14	
Ethylbenzene	ug/kg	<25.0	60.0	05/27/10 10:14	
m&p-Xylene	ug/kg	<50.0	120	05/27/10 10:14	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	05/27/10 10:14	
Naphthalene	ug/kg	<25.0	60.0	05/27/10 10:14	
o-Xylene	ug/kg	<25.0	60.0	05/27/10 10:14	
Toluene	ug/kg	<25.0	60.0	05/27/10 10:14	
a,a,a-Trifluorotoluene (S)	%-	106	80-120	05/27/10 10:14	

LABORATORY CONTROL SAMPLE & LCSD: 305741			305742							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1030	1100	103	110	80-120	7	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1030	1090	103	109	80-120	6	20	
Benzene	ug/kg	1000	951	1010	95	101	80-120	6	20	
Ethylbenzene	ug/kg	1000	1010	1080	101	108	80-120	7	20	
m&p-Xylene	ug/kg	2000	2010	2160	101	108	80-120	7	20	
Methyl-tert-butyl ether	ug/kg	1000	886	946	89	95	80-120	7	20	
Naphthalene	ug/kg	1000	970	1050	97	105	80-120	8	20	
o-Xylene	ug/kg	1000	996	1060	100	106	80-120	7	20	
Toluene	ug/kg	1000	990	1050	99	105	80-120	6	20	
a,a,a-Trifluorotoluene (S)	%-				106	106	80-120			



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QUALITY CONTROL DATA

Project: SCHAPER VILLA OASIS

Pace Project No.: 4032292

QC Batch: PMST/4013

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 4032292001, 4032292002, 4032292003, 4032292004, 4032292005, 4032292006, 4032292007, 4032292008, 4032292009, 4032292010, 4032292011, 4032292012, 4032292013, 4032292014, 4032292015, 4032292016, 4032292017, 4032292018, 4032292019

SAMPLE DUPLICATE: 304881

Parameter	Units	4032292001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.4	14.7	2	10	

QUALIFIERS

Project: SCHAPER VILLA OASIS
Pace Project No.: 4032292

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

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

ANALYTE QUALIFIERS

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

Ville Oasis
Prairie Du Chein

